GENERAL CATALOGUE 2026

RESIDENTIAL AND COMMERCIAL
MONO & MULTI IN R32

VRF SYSTEMS HEAT PUMP
HEAT RECOVERY

HEATING
AIR-TO-WATER HEAT PUMPS

mitsubishi-termal.it




MITSUBISHI HEAVY INDUSTRIES


MITSUBISHI
HEAVY INDUSTRIES


The passion of Mitsubishi Heavy Industries leads to the development of products with a green soul, the most advanced technology today for a better future tomorrow.

ECOLOGICAL TECHNOLOGY & INNOVATIVE DESIGN FOR A BETTER WORLD

17 RESIDENTIAL

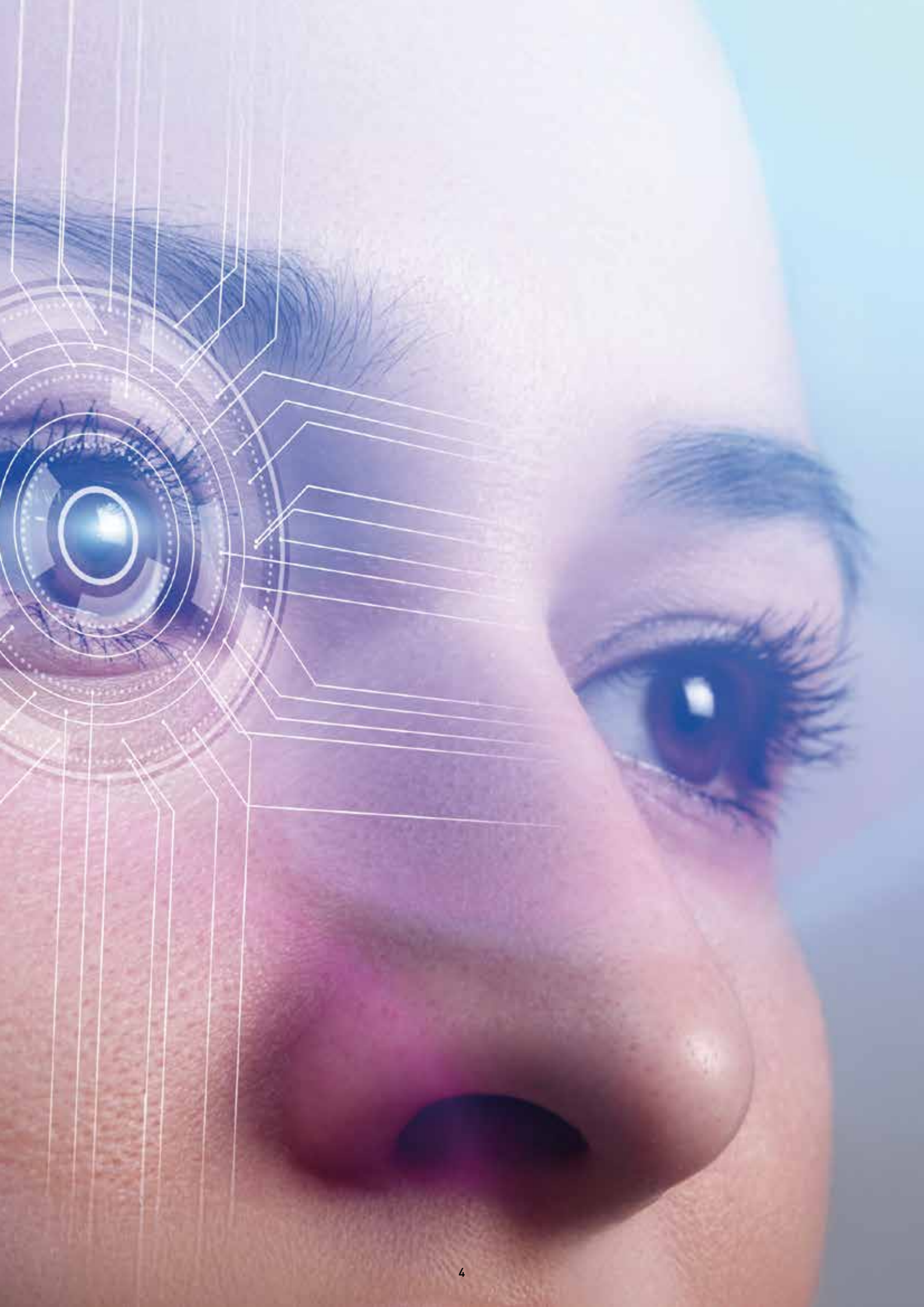
65 COMMERCIAL

109 VRF SYSTEM

187 HEATING

253 CONTROLS

MITSUBISHI HEAVY INDUSTRIES



EXPERIENCE THAT GUIDES THE FUTURE

TECHNOLOGICAL RESEARCH, A LOVE OF CHALLENGE AND THE ABILITY TO INTERPRET THE FUTURE ARE OUR ENTREPRENEURIAL HERITAGE

These principles are the foundation of a history that has been developing for over 40 years, of a commitment that has evolved in the pursuit of excellence and continuous improvement.

TERMAL GROUP

Termal is a commercial group founded in the 1980s.
In 1984 it signed an agreement with the Japanese major **Mitsubishi Heavy Industries** for the **exclusive distribution in Italy**, and in part of Eastern European countries, of products and systems for air conditioning.

A story that has unfolded over more than **40 years of dynamic activit**y - a commitment that has evolved in the pursuit of excellence and continuous improvement. Today, Termal Group is a key player in the climate and comfort sector, with cutting-edge solutions for air conditioning, heat pumps and domestic hot water production. Through its commercial companies, it promotes energy efficiency and the optimisation of consumption in building and plant engineering, with a tangible commitment to sustainable, high-technology solutions.

TERMAL QUALITY

- Direct logistics;
- Academy for continuous training;
- Extensive network of service centres;
- In-house technical office for product development;
- Pre- and post-sales service.

Termal Group

PRE-SALES AND AFTER-SALES SERVICE

TERMAL ASSISTANCE PORTAL, THE REFERENCE POINT FOR ASSISTANCE

The Termal Assistance Portal provides centralised and efficient technical assistance for products.

An environment where, through simple workflows, support requests can be submitted and the necessary documentation accessed.

The platform can be accessed at **www.assistenzatermal.it**; customers and technical assistance centres can access it to submit their support requests through a clear interface, personalised access and linear operational flows.

Each request is automatically forwarded to the relevant department, ensuring effective management and optimised response times.

Centralised access

A single portal for all support needs.

Simplified experience

Intuitive interface for all types of users, with guided paths.

Efficiency and speed

System that simplifies communication with the relevant departments and reduces response times.

Integrated management

Each flow generates a notification to the correct department and links to secondary portals (manuals, spare parts).

www.assistenzatermal.it

ADVANTAGES FOR INSTALLERS, DESIGNERS AND WHOLESALERS

The portal dedicated to **professional operators** offers a complete set of tools for every phase: from design to commissioning, right through to after-sales support.

Each profile – installer, designer or wholesaler – finds **technical resources, specific modules and support materials** that facilitate daily work, reduce response times and guarantee a high level of service to the end customer.

Start-up and after-sales service

Just a few clicks to send us your request for product commissioning or after-sales assistance on already installed products.

Spare parts management and after-sales service

Dedicated area for requesting original spare parts and support for products that have already been installed.

Documentation requests

Quickly obtain manuals, diagrams, technical specifications and official support materials.

Design specifications

Tools for defining technical requirements, system diagrams and design configurations.

ADVANTAGES FOR CATS AND SELF-SERVICE CUSTOMERS

The portal offers CATs and self-service customers a structured environment in which to operate efficiently and independently. The features are designed to meet the needs of those **who work with the product on a daily basis**, providing direct specialist technical support and access to the most up-to-date documentation.

To streamline the compilation of requests, these users can **log in**.

Specialised technical support

Access to dedicated channels to request in-depth assistance on complex issues or technical interventions.

Access to technical documentation

Manuals, certifications and technical specifications are always available and up to date.

Spare parts management

Reserved area for selecting and requesting original spare parts needed for field interventions.

TERMAL ACADEMY TRAINING

TRAINING THAT BECOMES OPERATIONAL EXPERTISE. IN BOLOGNA, AT THE HEART OF THE TERMAL GROUP

The Termal Academy is the training department of the Termal Group: a team of engineers and specialised technicians who transfer practical know-how on air conditioning, heating and domestic hot water production systems from the brands distributed by the Group on a daily basis.

An environment where, through simple flows, you can submit requests for assistance and access the necessary documentation.

We are located in Bologna, where theory meets real-life systems in operation and training becomes performance in the field.

Termal **Academy**

Who it is aimed at

Installers, designers, specialised technicians. Professionals who want to work to the highest standards, keep up to date with the latest developments and transform technical expertise into value for the customer and new business opportunities.

Our method

- **Theory + practice**: each course combines lectures, demonstrations and tests on working systems.
- **Operational approach**: focus on installation, assistance, maintenance and fault diagnosis.
- **Continuous updating**: programmes always aligned with new products, technological developments and regulatory changes.

The headquarters and laboratories

At our Bologna headquarters, you will find:

- **Theory classrooms** for structured in-depth study.

  Demonstration and practical classrooms with real systems from the various product families (residential, commercial, VRF and hydronic systems) and related control instruments.

This is where you really learn: by touching, measuring and configuring.

HVAC training content

- Refrigeration circuit and best installation practices.
- Fault diagnosis and service procedures.
- Design of **VRF systems or air-water heat pumps**.
- Use of **sizing software**.
- Regular updates on **industry regulations**.

The principles that guide us

Trust, technology, evolution, quality, continuous training. These are our five guiding principles: we believe in people and their development. Experienced professionals are at your side to tackle the challenges of everyday work and always stay one step ahead.

Strategies for the future

The TERMAL Academy **offers regular, highly specialised programmes** on innovative HVAC products and solutions. Not just technical skills: we also focus on marketing and sales techniques to improve customer relations and communication, so that we can truly meet their needs.

What you take home

- **Up-to-date and immediately** applicable operational skills.
- **Certificate of attendance** and complete technical handouts for each module.
- A network of specialists with whom you can continue to exchange ideas even after the course.

R290, ECO-FRIENDLY AND EFFICIENT

THE ECO-FRIENDLY AND EFFICIENT CHOICE FOR AIR-TO-WATER HEAT PUMPS FOR HEATING AND COOLING

R290 gas (propane) is the eco-friendly and efficient choice for air-to-water heating and cooling systems, because it delivers excellent energy performance and a reduced environmental impact.

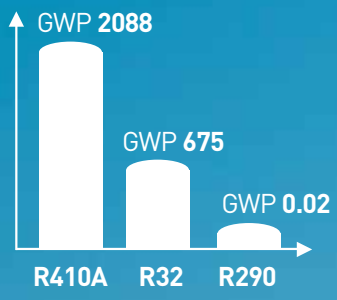
R290, also known as propane, is a natural refrigerant with a minimal environmental impact, thanks to its extremely low Global Warming Potential (GWP), equal to 0.02, and ODP equal to 0. This makes it an eco-friendly choice compared with traditional gases with much higher GWP values.

75°C

With R290, DHW can be produced at high temperatures.

0.02

Very low Global Warming Potential.



KEY FEATURES OF R290

R290 stands out for its ability to produce **hot water at high temperatures, ideal for radiator heating systems**. Its versatility makes it a perfect solution both for new installations and for retrofitting existing systems, in residential and commercial applications.

HIGH ENERGY EFFICIENCY

Propane offers **excellent energy-efficiency performance**, helping to reduce consumption. This is due to its ability to operate at lower pressures at the same temperature. What does that mean?

- **Less stress on the compressor**: the system operates with lower mechanical load, achieving better efficiency, reducing compressor wear and improving reliability.
- **Flow temperature up to 75°C**: R290 can reach high supply-water temperatures, making it ideal for **radiator heating** systems and for **domestic hot water (DHW) production**.

Moreover, although it is a flammable gas, propane is **considered safe** when used correctly, thanks to stringent safety regulations and its low toxicity.

R290
NEW REFRIGERANT

75°C

R290 heat pumps produce hot water at very high temperatures. They are the ideal solution for radiators, and therefore for installation on existing systems.

MAIN APPLICATIONS OF R290 HEAT PUMPS

R290 heat pumps are ideal for different types of applications:

- **Residential**: perfect for radiator heating systems, domestic hot water production and cooling; R290 heat pumps are particularly suitable for home systems that require high performance with low emissions.
- **Commercial**: used in commercial environments, R290 heat pumps are suitable for medium and large heating and cooling systems, where a high energy-efficiency solution is required.

Thanks to their ability to produce hot water at high temperatures, R290 heat pumps are the ideal choice for **retrofitting** existing systems, allowing heating systems to be modernised with a more eco-friendly and higher-performing solution.

BASIC R290 INFORMATION

- **GWP** = 0.02;
- **Class (ISO 817)** = A3 "high flammability";
- **LFL** = 0.038 kg/m^3;
- **Properties and appearance**: colourless, odourless; it exists as vapour under normal atmospheric pressure; denser than air.

THE R290 REFRIGERANT

- High supply-water temperatures, ideal for **radiator heating systems**.

- Perfect for new installations and **retrofits**.

- Suitable for residential and commercial use.

R290 SAFETY PROVISIONS

This page provides basic guidance on the key points to consider in order to address potential issues arising from the use of R290

PERSONNEL AND COMPETENCE

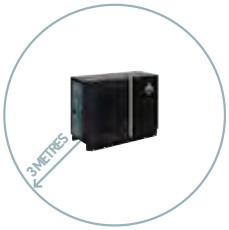
All personnel involved in installation activities must have the skills appropriate to the tasks to be performed. Interventions must be carried out only by trained personnel, in a well-ventilated environment, in compliance with EN 378, IEC/EN 60335-2-40 and Italian Legislative Decree 81/08.

Compliance with national regulations and standards

Understanding of risks and hazards

Safe work area

Safe working practices



SAFE WORK AREA

In the event of possible refrigerant release, the technician must ensure a safe work area with a three-metre radius around the unit. Special rules apply in this area because a flammable atmosphere may form in the event of a leak:

- **Inform the people present** in advance about the type of work that will be carried out;
- **Mark off and indicate the area** as a temporary flammability-risk zone, using signage and barriers;
- **Use only tools and equipment suitable** for flammable refrigerants; if electrically powered, connect them only to sockets located outside the zone;
- **Keep a fire extinguisher available;**
- Before the intervention, clear the area of all ignition sources, including: open flames, switches and lamps, non-ATEX electrical devices, phones, smartwatches, tools with brushed motors, cigarettes. **Ventilation must** also be ensured, especially near floor level; **cordon off the area** to prevent unauthorised entry. **Use a compliant electronic detector to check for the possible presence of R290 before, during and after the work.**

PROTECTIVE CLOTHING, EQUIPMENT AND TOOLS

Operators handling R290 pre-charged units must adopt appropriate personal protective equipment, such as protective gloves, antistatic clothing and tools suitable for flammable refrigerants:

- Antistatic protective gloves;
- Antistatic safety footwear (S1P/S3 with antistatic sole);
- Antistatic workwear made of natural fabric (cotton);
- Safety glasses or visor when connecting/disconnecting pipes and equipment;
- Approved powder extinguisher (class B ⩾ 6 kg) or CO2 always available near the work site;
- Prohibition of possible ignition sources within 3 m of the machine (welders, angle grinders, cigarettes, etc.);
- Personal detector (explosimeter) with 4 sensors, 7 m drop-test, IP66/68 protection rating, ATEX II certified, 1st alarm 2000 ppm;
- Electronic leak detector, 1st alarm 10 ppm, IP67 certified with 2 m drop-test;
- Brushless screwdriver.

REQUIREMENTS AND RECOMMENDATIONS

Depending on the type of work performed (for example installation, replacement of the PCB board or refrigerant recovery), the minimum requirements and recommendations may differ. The table below indicates what is classified as "mandatory", "not required" and "recommended".

	Ordinary installation and maintenance	Electrical repair	Handling refrigerants
Example activities	Installation and inspection	Board replacement	Refrigerant recovery
Knowledge of R290 regulations and safety	Mandatory	Mandatory	Mandatory
Personal protective equipment	Mandatory	Mandatory	Mandatory
Use of leak detector	Mandatory	Mandatory	Mandatory
Tools for handling the refrigeration circuit	Not required	Not required	In addition to safety devices: ATEX vacuum pump, manifold set, pressure gauges certified for A3, dedicated recovery cylinders for A3 refrigerants, A3-certified extractor, ATEX fan, non-sparking tools.

R32, MORE PERFORMANCE, LOWER ENVIRONMENTAL IMPACT

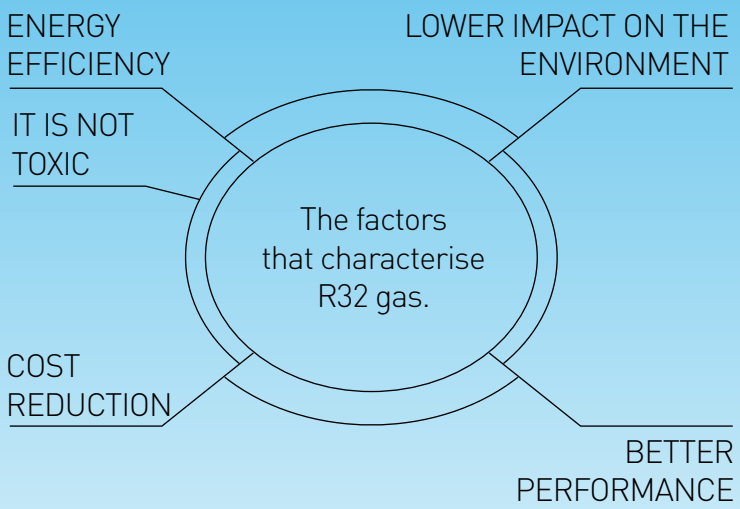
Mitsubishi Heavy Industries has always looked to the future and anticipated the times by offering innovative products in terms of environmental impact and efficiency.
The entire range uses the eco-friendly R32 refrigerant.
This gas has a low environmental impact and improves energy efficiency.

ADVANTAGES OF R32

Nowadays, environmental protection is considered of primary importance by both the user and the professional.

Choosing an air conditioner with the new R32 refrigerant allows you to obtain excellent comfort in both cooling and heating, reducing polluting emissions.

The most relevant aspect of R32 gas is its GWP value, equal to 675, which allows the creation of systems containing up to 7.4 kg of gas without exceeding the threshold which requires leak control, keeping of the equipment register , a threshold which for an R410A gas is already exceeded by 2.4 kg of gas.



R32 REFRIGERANT

- it is ecological;
- it is not toxic;
- it is slightly flammable;
- it is not harmful and does not present risks for ozone;
- it is very efficient.

Warning for use of R32 gas

R32 REFRIGERANT GAS

The specific name of R32 gas is difluoromethane.
It is currently present among the fluorinated gases with a low GWP value, equal to 675, and used in air conditioning devices intended for residential use.
There is no obligation to replace the current R410A gas, which therefore remains regularly on the market, except in monosplit applications with refrigerant < 3 kg where, from 2025, the use of gas with GWP < 750 will be mandatory for new installations.
There are some limitations in particular conditions of use which must be considered in accordance with the regulations in force.
When storing units containing R32, it may be necessary, based on the quantities stored, to review the Fire Prevention Certificate (Presidential Decree 151/2011) to guarantee the validity of your insurance guarantee. The transport of dangerous goods is regulated by Legislative Decree 35/2010. R32 has been classified as slightly flammable by ISO 817 and as such has no stringent limitations in road transport (ADR in force), maintaining strict regulations in maritime transport (IMDG in force) and aeronautical (IATA in force).

THE REGULATION

The EN 378:2016 standard also regulates the applications of appliances that use R32 gas; the maximum gas concentration limits must always be verified in residential applications with particular regard to multi-split systems which can potentially concentrate (in the event of leaks) high quantities of refrigerant in small environments.
R32 gas is heavier than air and in the event of a leak it accumulates at the bottom; the internal units therefore follow different regulatory parameters depending on the type of application.
Installation in public buildings is regulated by specific regulations relating to the application of appliances with flammable gases, such as: hotels Ministerial Decree 04/09/1994, shopping centers Ministerial Decree 07/27/2010, entertainment buildings Ministerial Decree 08/19/1996, hospitals Ministerial Decree 18/09/2012, schools Ministerial Decree 26/08/1992, offices Ministerial Decree 22/02/2006, games for children Ministerial Decree 16/07/2014, airports Ministerial Decree 07/07/2014, interports Ministerial Decree 18/07/2014.

DESIGN, INSTALLATION AND MAINTENANCE

The design, installation and maintenance of R32 gas appliances are regulated by the following regulations: Ministerial Decree 37/2008, provisions regarding the installation of systems inside buildings; DGLS 81/2008, text on health and safety at work; F-gas 517/2014, regulation of fluorinated gases; Presidential Decree 151/2011, regulation of procedures relating to fire prevention; EN 378:2016, refrigeration systems and heat pumps (system safety requirements).
With the Ministerial Decree of 10 March 2020 and the subsequent Circular DCPREV 9833 of 22 July 2020 by the Fire Brigade, the technical provisions are updated allowing the possibility of using, in air conditioning and air conditioning systems, machines equipped with refrigerants classified A1 or A2L , thus overcoming the constraint of using only non-toxic or non-flammable fluids.
However, it is recommended to scrupulously check the regulations in force when using equipment containing R32 gas. Failure to comply with these regulations makes designers and installers of equipment with R32 assume their direct legal responsibility for the application of the equipment itself.

2026 NEW

HYDROLUTION EZY IDROSPLIT

HYDROLUTION EZY IDROSPLIT IN R290 AND R32 HYDROBOX E ALL IN ONE

Plug & play Idrosplit for heating, cooling, and DHW production. A gas-free solution, the indoor unit only circulates water.

WITH R290 REFRIGERANT

FDCM 60 VNX-P | FDCM 71 VNX-P
FDCM 100 VN(S)X-P | FDCM 140 VN(S)X-P
Jet black color

WITH R32 REFRIGERANT

FDCM 100 VNX-W | FDCM 140 VNX-W

R290 VERSION IDEAL FOR RETROFIT ON EXISTING SYSTEMS

Ideal for refurbishment projects across the Italian building stock, typically characterised by radiators and high-temperature terminals.

75°C

EZY IDROSPLIT R290 is able to produce hot water with an outlet temperature up to 75°C.

-25°C

High performance and **75°C hot water guaranteed down to -25°C outdoor temperature.**

SAFETY

Multiple safety devices:

- Isolated electrical compartment positioned in the upper part of the unit;
- R290 leak sensor;
- Opening on the bottom of the casing to quickly disperse the refrigerant;
- Degasser for the hydronic circuit.

CLEARANCE ZONES

Mitsubishi Heavy Industries has carried out studies and real-life simulations on the dispersion of R290 gas in the event of a leak, defining precise safety zones based on the results. **This makes it possible, in most application scenarios, to install with smaller minimum safety distances than competing solutions**.

INTRODUCTION OF 4 NEW SIZES IN THE RANGE: 6, 8, 10 AND 14 KW IN R290.

10 and 14 kW R290 models available in both single-phase and three-phase versions.

HBM140

HMM100

HYDROBOX CONFIGURATION

In Hydrobox mode, EZY Idrosplit can be used for heating and cooling only, or combined with one or more external storage tanks to also produce domestic hot water.

ALL IN ONE CONFIGURATION

Hydrolution EZY Idrosplit All in One is a heat pump system for heating, cooling and domestic hot water production, with the tank integrated in the indoor module.

RESIDENTIAL LIGHT COMMERCIAL **R32**

R32

RESIDENTIAL & LIGHT COMMERCIAL

MONOSPLIT & MULTISPLIT RANGE

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273	PERFORMANCE TABLES MULTISPLIT R32

Choosing the air conditioner best suited to your lifestyle is the first step to obtaining the best performance and comfort.

The air treatment, the level of silence achieved, the guaranteed energy savings are factors that make the MHI residential range the most suitable choice for every home.

MITSUBISHI HEAVY INDUSTRIES

HEALTH

Allergen Clear Filter, **effective against Covid-19**

The Allergen Clear air filter, made by MHI, is capable of capturing a wide range of germs, allergens and even viruses linked to important health complications, including the risk of Coronavirus infection.

MHI's air purification technology contains an enzyme-urea compound that suppresses pollen, mold, bacteria and allergens.

Tests* conducted by the Japan Textile Products Quality and Technology Center **confirmed that this technology is also effective for inactivating SARS-CoV-2, the virus that causes COVID-19**.

*Test conducted according to the ISO 18184 standard; number 21KB-080059-2.

PURIFICATION DEVICE PRESENT ON


SRK ZSX-WF


SRK ZS-WF


SRK ZTL-W


SRK ZR-WF


SRK ZTX-WA

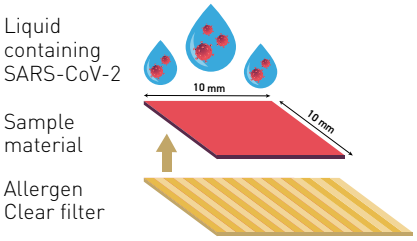

SRF-ZS/ZSX-W

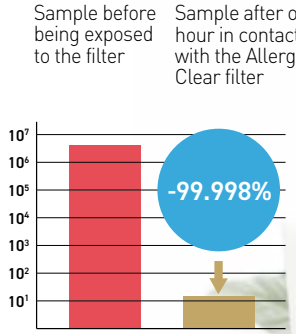
1. ELISA colorimetric test method Laboratory: National Independent Hospital Agency Sagamihara Hospital, No. 1536. 2. ELISA colorimetric test method/ELISA fluorescent method - Laboratory: National Independent Hospital Agency Sagamihara Hospital, No. 1536. 3. TCID test method (infection value 50%) Laboratory: Kitazato Environmental Science Center Foundation Japan, no. 15-0145.

TEST

The quantity of SARS-CoV-2, present on a sample of infected material, after one hour of exposure to the Allergen Clear filter, **is reduced by 99.998%**.

The virus is deactivated by MHI's urea-enzyme technology.





The continuous operation of the internal fan and the consequent filtration of the air reduces the presence of viruses in the environment and helps limit the risk of infections and allergies.

EFFICIENCY IN CLASS A+++

In order to improve energy efficiency and protect the environment, several design and engineering changes have been made. The entire residential and light commercial range from Mitsubishi Heavy Industries stands out for its high energy performance.

Significant energy savings in both cooling and heating have been achieved thanks to the DC PAM Inverter technology and the DC Twin Rotary compressor.

INVERTER DC PAM

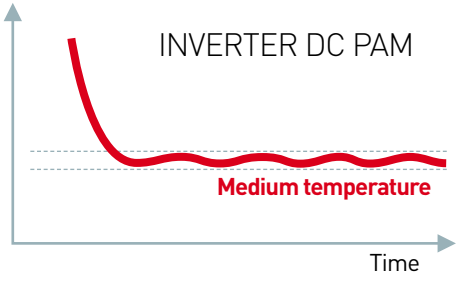
The inverter-driven system has a number of performance advantages over a conventional system. For example, compressor outputs can ensure rapid warm-up on startup and reach the set temperature more quickly.

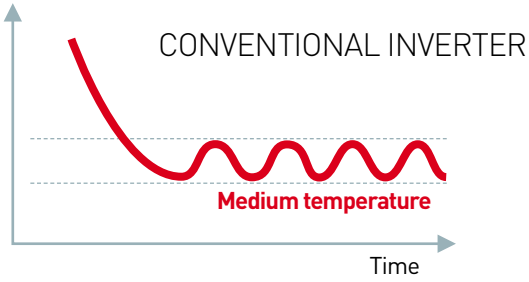
The air conditioner then slows down the speed of the compressor to save energy while maintaining comfortable conditions.

DC TWIN ROTARY COMPRESSOR

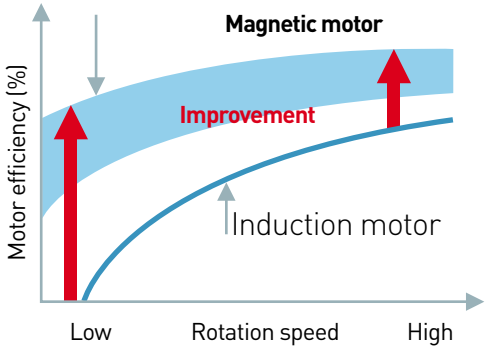
The recently developed compressor has high-level performance at both low and high speeds.

In addition to low vibrations, low noise emissions and high efficiency were achieved by optimizing the dimensions of the mechanical parts and applying the neodymium motor.





Compared to the conventional inverter, the DC PAM optimizes temperature control, making it more stable over time.



HIGH TECHNOLOGY FOR OUTDOOR UNITS

MHI outdoor units are well-finished and robust and can be easily installed on a roof or terrace, or simply against an external wall. The design and materials of the body are the result of the careful work of MHI engineers; Japanese technology for maximum efficiency.

HELICAL FAN

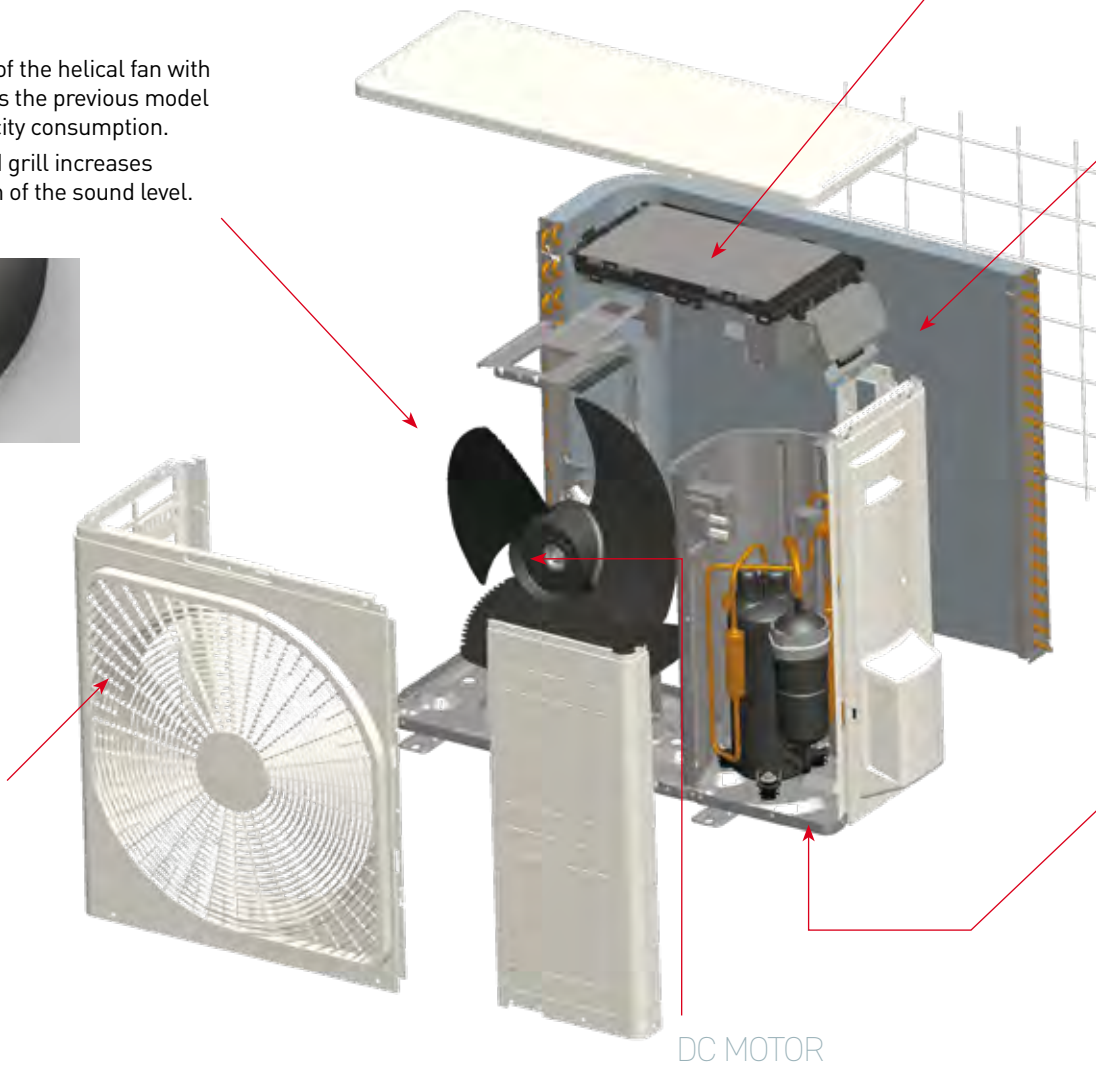
Optimization of the combination of the helical fan with the fan motor: the same power as the previous model is maintained, with lower electricity consumption.

The synergy with the leaf-shaped grill increases efficiency by 5%, with attenuation of the sound level.

Serrated fan

LEAF-SHAPED GRILLE

The radial-shaped grille was developed to allow efficient airflow to escape. Reducing the load on the motor and axial fan leads to greater energy efficiency, also contributing to a quieter sound level.



DC MOTOR

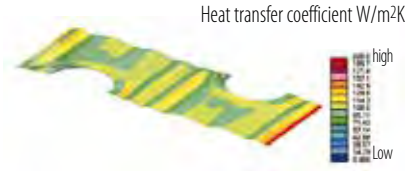
The fan motor produces high efficiency and high power.

PCB CLADDING

The PCB of the outdoor unit is coated. As it is resistant to humidity, it is long-lasting.

HEAT EXCHANGER

By changing the fin configuration from flat to "M" shape, efficiency increased by 10%. This multi-dimensional structure offers an optimal balance of heat transfer and airflow.



ANTI-CORROSION

At the base of the outdoor units, a hot-dipped steel sheet with high resistance to corrosion is used.

It possesses superior anti-corrosion resistance, and anti-scratch properties compared to conventional materials.

THREE SENSORS

Room temperature control is very important for comfortable living. The use of three sensors - to control the internal temperature, internal humidity and external temperature - allows optimal air conditioning to be achieved.

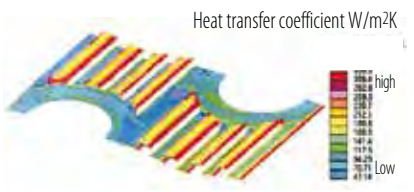
Indoor temperature and humidity sensor

Outdoor temperature sensor

INDOOR UNIT'S HEAT EXCHANGER

Our optimal combination of fin configuration with copper tubing maximized airflow, without increasing the width of the indoor unit.

The efficiency rate of the heat exchanger has been significantly improved by 33% compared to that of previous models. The fin is able to maximize airflow volume and save energy simultaneously.



This page mainly describes the ZSX and ZTX series.

MITSUBISHI HEAVY INDUSTRIES

MAXIMUM SAVINGS WITH THE HUMAN SENSOR

It is an activity sensor that guarantees automatic control of energy saving. It detects not only the presence/absence of people in the environment, but also the type of activity carried out. The units highlighted below therefore adjust their cooling and heating capacities based on the real needs of the environment in which they are installed, in relation to the perception of those present.

Models on which the sensor can be installed

ZSX e ZTX
(standard)

FDT

FDTC

FDUM

FDE

ECO OPERATION BY HUMAN SENSOR

IN COOLING MODE

The unit activates energy saving when low activity is detected, and automatically raises the outlet air temperature.

IN HEATING MODE

The unit activates energy saving when intense physical activity is detected, and automatically lowers the outlet air temperature.

When the sensor detects that no people are in the room, the unit automatically reduces the power output to a moderate level after approximately 15 minutes; it will return to normal operation once people reenter the room.

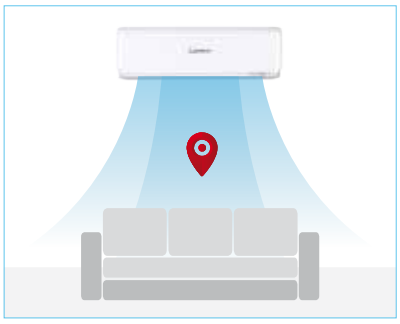
AUTO OFF BY HUMAN SENSOR

If after 1 hour (settable from 1 to 2 hours by remote control) the environment continues to be free of people, the unit stops operation and switches to "stand-by" mode.

It starts up again when any human activity is detected within 12 hours, or turns off completely after 12 hours of absence.

It is possible to activate and deactivate the AUTO OFF function from the remote control.

ABSENCE



Power control: when the system detects that no one is present in the room, the air flow stops.

AFTER 1 OR 2 HOURS (SELECTABLE)

Stand by: the unit suspends operation if it detects no activity for 1 hour. It comes back to work if and when activity resumes.

PEOPLE IN THE ROOM

Reactivation of the function: if you return to the room within 12 hours, the air conditioner automatically resumes working in the preset mode.

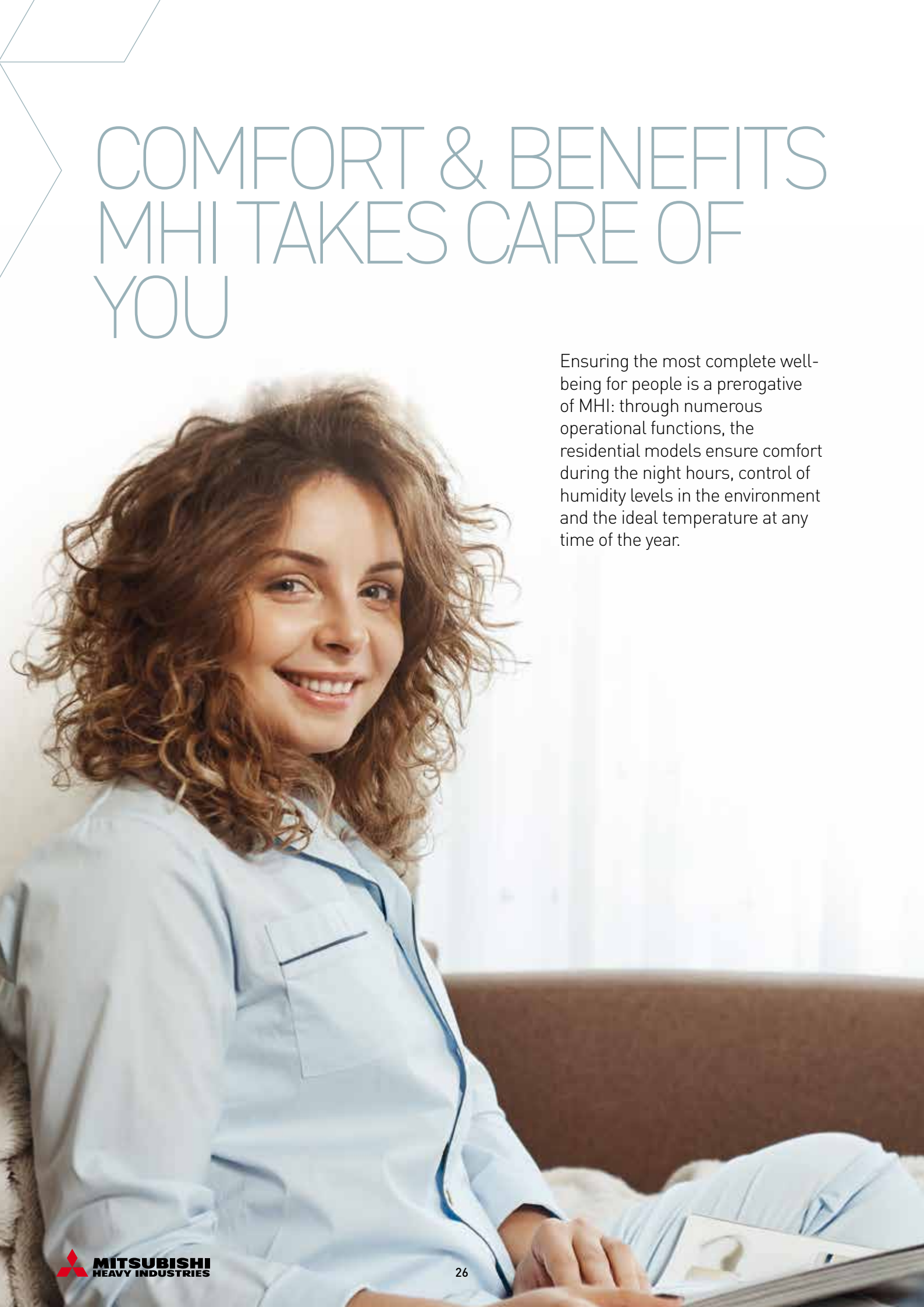
By activating any manual timing setting [Sleep timer, Timer on/off, Weekly timer] the HUMAN SENSOR is inhibited.

FUZZY AUTO OPERATION

Fuzzy Auto Operation guarantees automatic control of the comfort temperature even in the presence of climate change.

COMFORT & BENEFITS MHI TAKES CARE OF YOU

Ensuring the most complete well-being for people is a prerogative of MHI: through numerous operational functions, the residential models ensure comfort during the night hours, control of humidity levels in the environment and the ideal temperature at any time of the year.



HIGH POWER: ENHANCED MODE

This mode offers an extra air flow to quickly bring the room (in heating or cooling mode) to the desired temperature.

Useful in both the winter and summer seasons, the HIGH POWER function guarantees enhanced hot air to enjoy a pleasant warmth when waking up on winter days, or fresh air when returning home on a hot summer day.

After 15 minutes, the air conditioner automatically restores the previous operating mode, to prevent the room from heating up or cooling down excessively.

WEEKLY TIMER

For each day of the week, up to 4 timer programmings are available (ON-TIMER, programmed automatic start / OFF-TIMER, programmed automatic stop).

You can set up to 28 programs per week. Once selected, this mode will repeat the same programming every week, unless otherwise set or cancelled.

HUMIDITY UNDER CONTROL

The perceived temperature in a room also depends on the degree of humidity. Dehumidification removes humidity from the air, lowering the perceived temperature during the summer period.

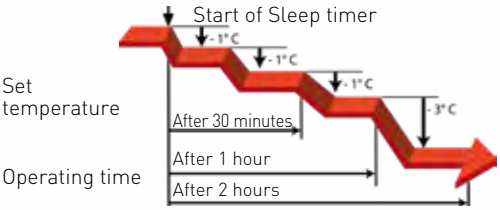
NIGHT SET-BACK MODE

During cold seasons, it is possible to keep the room temperature at a comfortable level in case of absence, at night and when the room is empty.
The air conditioner maintains a constant temperature of approximately 10° C.

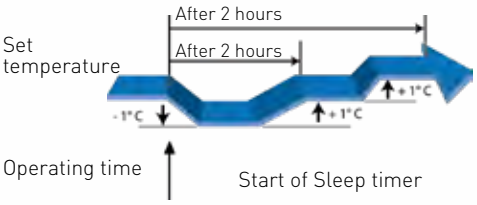
SLEEP TIMER: NIGHT FUNCTION

During night rest, excessive cooling/heating is not necessary.
Thanks to this function, it is possible to obtain moderate cooling/heating by regulating the power, also ensuring energy savings.

IN HEATING MODE



IN COOLING MODE



MITSUBISHI HEAVY INDUSTRIES

BREATHING HEALTHY AIR FILTERS & DISINFECTION

Wellbeing and healthiness also pass through the air we breathe. This is why Mitsubishi Heavy Industries makes our environments comfortable by sanitizing and, at the same time, evenly distributing the air from the air conditioners. In particular, the filters and the structure of the residential models perform a high filtering action: they remove dust, preventing the formation of fungi and mold, and exert a profound deodorizing action.

ALLERGEN CLEAR FILTER, ALSO EFFECTIVE AGAINST COVID

Carbonic acid diamide

The anti-allergy filter eliminates pollen[1], lice[2], allergens that live on cat hair, etc. and deactivates them.

The secret of deactivation is the enzyme-diamide compound of carbonic acid. Deactivation concerns not only allergens but also all types of bacteria[2], molds and viruses[3].

The Allergen Clear air filter, made by MHI, is capable of capturing a wide range of germs, allergens and even viruses linked to important health complications, including the risk of Coronavirus infection.

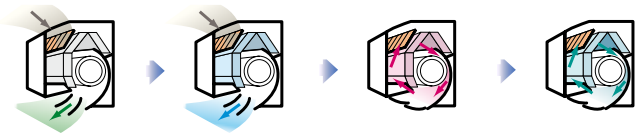
1. ELISA colorimetric test method Laboratory: National Independent Hospital Agency Sagamihara Hospital, No. 1536. 2. ELISA colorimetric test method/ELISA fluorescent method - Laboratory: National Independent Hospital Agency Sagamihara Hospital, No. 1536. 3. TCID test method (infection value 50%) Laboratory: Kitazato Environmental Science Center Foundation Japan, no. 15-0145.

ALLERGEN CLEAR FUNCTION

The Allergen Clear function is a real thermo/mechanical sanitization program: it is activated by remote control, lasts an hour and a half and is completed with the activation of the Self Clean Operation and then stops automatically.

This function neutralizes the bacteria collected on the surface of the special anti-allergenic filter (Diamide of Carbonic Acid), thanks to a sophisticated interaction between temperature and humidity control which activates the hydrolytic functions of the filter enzymes.

The 4 phases of the Allergen Clear function



1. It captures allergens
2. Cooling: condensate production on the heat eaxchanger
3. Heating: distribution of hot condensed water on the filter to neutralize allergens.
4. Activation of the Self Clean function for drying

ANTI-MICROBIAL FAN TREATMENT

To always keep the indoor unit clean, the fan has been subjected to anti-microbial treatment to resist mold and germs, making the system clean and safe.

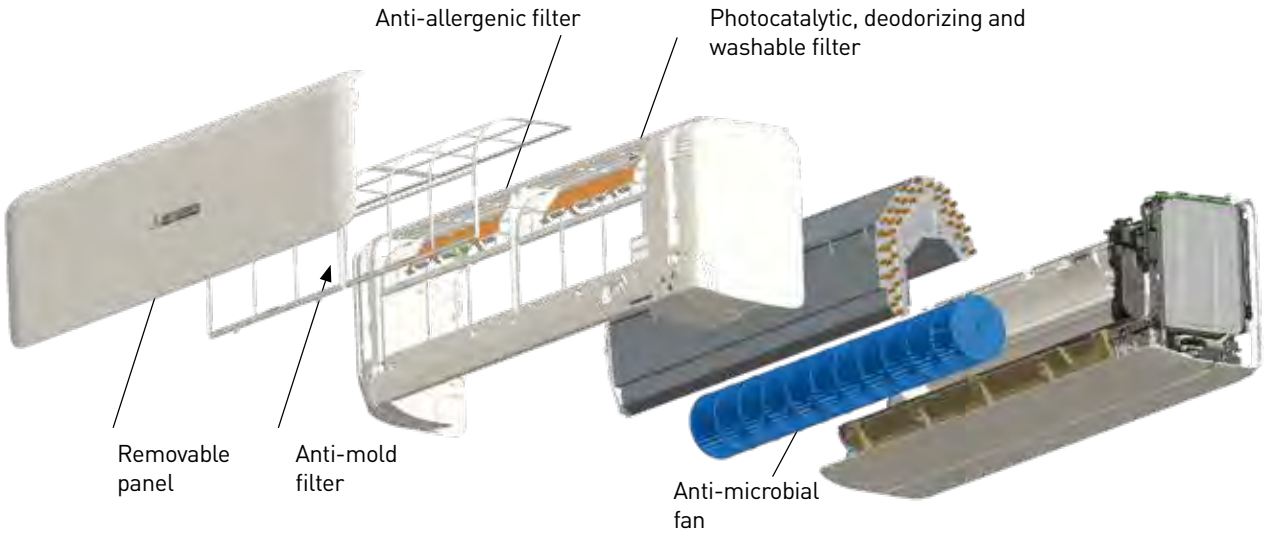
without anti-microbial

with anti-microbial

Below is an example of the comparison between the growth of bacteria and mold on fan surfaces (microscope image).

filters & functions

Model	SRK ZSX-WF	SRK ZTX-WA	SRK ZS-WF	SRK ZTL-W	SRK ZSP-W1	SRK ZR-WF	SRF ZS-W	SRR ZS-W
ALLERGEN CLEAR	✓	✓	✓	✓		✓	✓	
Dustproof	✓	✓	✓	✓	✓	✓	✓	
Photocatalytic	✓	✓	✓			✓	✓	
Self Clean Operation	✓	✓	✓	✓	✓	✓	✓	✓



SELF CLEAN OPERATION

This function activates the automatic mold sanitization program and can be performed at the end of the machine's operating cycle (or as the last phase of the Allergen Clear function). It lasts a couple of hours. The proliferation of mold is blocked through a thermo/mechanical process.

Example

When the "Self Clean Operation" is NOT performed for a week →

Expansion of fungal mycelium and mold spores

When the "Self Clean Operation" is performed →

Mold spores do not germinate

TITANIUM DIOXIDE + ZEOLITE PHOTOCATALYTIC FILTER

In non-woven fabric with TIO2 powders + Zeolite

Deodorizing and washable, it keeps the air fresh by neutralizing the molecules that cause bad odor. The deodorizing power can be restored by simply washing with water and drying under the sun.

VENTILATION
AIR DISTRIBUTION

Jet Air technology for silent, wide-ranging airflow. MHI has used the same aerodynamic analysis technology used in the development of jet engines for its air conditioners.

3D AIRFLOW, SILENT AND LARGE REACHING

For the design of the components of the air flow system of the KIREIA Plus, KIREIA, KIREIA Ice and KIREIA EVO models, MHI made use of aeronautical technology, thanks to which the units are able to distribute an air flow in the environment large and uniform, with a notable reduction in consumption and sound levels: only 19 dB(A) for the 2.00, 2.50 and 3.50 kW models and for the 1.50 and 2.00 kW models (KIREIA Evo).

The automatic control of the volume and direction of the air flow guarantees a comfortable and uniform climate in the room.

Through this control it is possible to prevent any air current that is too cold or too hot from being directly directed towards those present in the room.

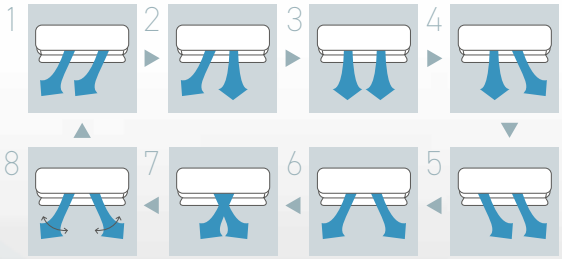
In heating mode, the flow of warm air can be directed towards the floor, thus achieving an optimal degree of comfort.

DOUBLE FLAP (small & large)

The double flap controls the optimization of the air flow: horizontal and long in cooling, strong and downwards in heating.

HORIZONTAL SWINGING OF AIR OUTLET FLAPS IN 8 DIFFERENT DIRECTIONS

It is possible to individually manage the flow direction of the air outlet flaps: 8 different horizontal swinging modes, selectable from the remote control, to choose to direct the air in the direction we most desire and thus achieve the optimal level of comfort.

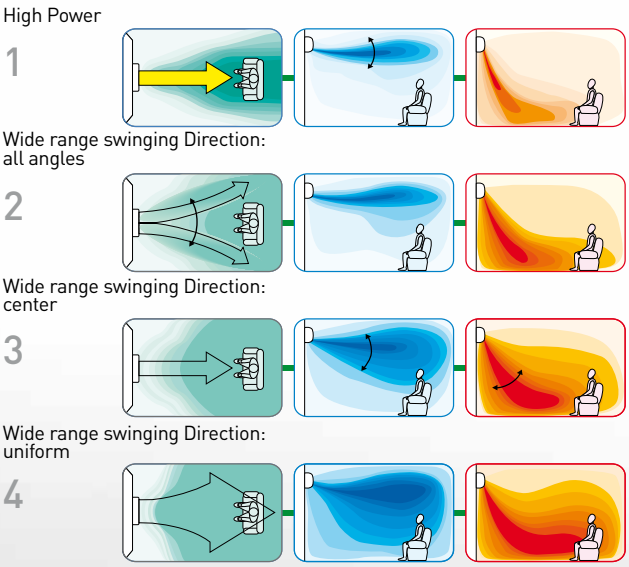


On this page, where not specified, the characteristics refer to the KIREIA Plus, KIREIA, KIREIA Ice and KIREIA Evo models.

WIDE RANGE AIRFLOW

Jet technology allows you to reach the corners of large environments. Ideal for large living rooms, shops, offices.

3D AUTO PROGRAMMING



This programming, selectable from the remote control, allows with a single button, to activate three independent air flows, generating a uniform breeze that reaches every point of the room.

In cooling mode, the cooled air does not go directly on the people in the room but flows on the ceiling and comfort is perceived as a fresh breeze. In heating, the flow of hot air spreads directly onto the floor.

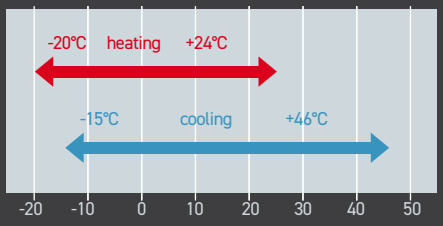
MITSUBISHI HEAVY INDUSTRIES

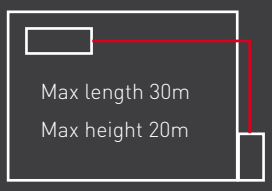
A FRESH WIND OF ADVANTAGES

The KIREIA Plus, KIREIA, KIREIA Ice and KIREIA Evo wall models are at the top for ease of installation, construction quality and advanced features.

WIDE OPERATION

The advanced technology of MHI air conditioners has extended heating and cooling operations.
The outdoor unit operates down to a temperature of -20°C.





SPLITTING DISTANCE

Up to 30 meters for maximum design flexibility.

Ssshhh QUIET...

When silent mode is selected, the maximum pressure level of the outdoor unit will be 3 dB(A) lower than the standard rated level [45 dB(A) or less].

The compressor speed is set lower than nominal operation, at 60% of nominal power. The maximum fan speed on the outdoor unit is lower than rated operation.

The KIREIA Plus, KIREIA and KIREIA Ice indoor units have some of the lowest sound pressure levels on the market [mod. 2.00, 2.50 and 3.50 kW].

MOBILE PANEL

Advanced design and technology: the mobile air intake panel has been designed to further reduce resistance.

KIREIA PLUS, AN ALL-ITALIAN DESIGN

Soft lines, great attention to detail and authentic exclusivity. Two colors available, white and titanium, which blend in with the home furnishings. Italian design that also wins abroad, with the Silver A'Design Award'.

BRIGHTNESS ADJUSTMENT

The brightness of the LED display can be adjusted to your preference (for ZSX, ZS, ZTL and ZTX models).

YOUR PREFERENCES JUST A CLICK AWAY!

Maintaining the same operating mode, temperature, fan speed and air flow direction is now possible thanks to the 'Pre-Set' function, which can be activated by remote control: this function is able to memorize and recall the last settings selected, for total comfort.

LINEUP

RESIDENTIAL MONOSPLIT R32

		kW	1.50	2.00	2.50	3.50	4.00	4.50	5.00	6.00	6.30	7.10	8.00
WALL	KIREIA Plus SRK ZSX-WF SRK ZSX-WFT	 titanium		✓	✓	✓			✓	✓			
	KIREIA Ice SRK ZTX-WA			✓	✓	✓							
	KIREIA SRK ZS-WF SRK ZS-WFT	 titanium		✓	✓	✓			✓				
	KIREIA Evo SRK ZTL-W		✓	✓	✓	✓			✓		✓	✓	
NEW	KIREIA Smart SRK-ZSP-W1				✓	✓							
	LARGE COMFORT SRK ZR-WF										✓	✓	✓
FLOOR	PRIMARY HEATING Console SRF ZS/ZSX-W				✓	✓			✓				
DUCTED	LIGHT COMMERCIAL Low pressure head SRR ZS-W				✓	✓			✓	✓			
	LIGHT COMMERCIAL Medium pressure head FDUM VH						✓		✓	✓			
CEILING	LIGHT COMMERCIAL FDE VH						✓		✓	✓			
CASSETTE	LIGHT COMMERCIAL FDTC VH(1) 60x60				✓	✓	✓		✓	✓			
	LIGHT COMMERCIAL FDT VH 84x84						✓		✓	✓			

MITSUBISHI HEAVY INDUSTRIES

KIREIA Plus

RANGE DEPTH AND EFFICIENCY

2.0-6.0 kW

Kireia Plus features a wide depth of range

A+++

Highest efficiency on the market for sizes from 2.0 to 3.5 kW in cooling and heating

2.0 kW

One of the few to also offer the 2.0 kW size, essential for new buildings with low energy demand

ABSOLUTE QUIETNESS IN RELATION TO THE VOLUME OF AIR TREATED

19 dB

Maximum airflow of 300 m³/h at the minimum noise level of 19 dB - the best on the market (2.5 kW)

508 mc/h

Highest airflow on the market at the average noise level (2.5 kW)

On average, KIREIA Plus is the quietest air conditioner in its market segment, while also offering best-in-class thermal performance.

MAXIMUM EFFICIENCY IN HEATING AND COOLING

9.9 SEER

SEER among the highest in its market segment (average 2.5-3.5 kW)

5.15 SCOP

SCOP among the highest in its market segment (average 2.5-3.5 kW)

On average, KIREIA Plus is the most efficient air conditioner in its market segment.

PIPING LENGTH AND INSTALLATION OPTIONS

25 m

Best maximum piping length in its market tier (2.0-3.5 kW)

15 m

Best maximum piping length without additional refrigerant charge on the market (2.0-3.5 kW)

KIREIA Plus is the air conditioner that offers the greatest installation flexibility on the market.

The values shown are the result of an internal comparative analysis with the main competitors in the relevant market segment. Values updated in September 2025 based on data in the 2025 public catalogues.

Ask your sales representative for more information.

KEY

Top feature, the best data on the market

Silver feature, one of the best figures on the market

KIREIA Plus

WALL

INCLUDED

titanium

Remote control included

SRK 20~60 ZSX-WF | SRK 20~60 ZSX-WFT

SRC 20~35 ZSX-W
SRC 50~60 ZSX-W3

Indoor unit model			SRK 20 ZSX-WF(T)	SRK 25 ZSX-WF(T)	SRK 35 ZSX-WF(T)	SRK 50 ZSX-WF(T)	SRK 60 ZSX-WF(T)
Outdoor unit model			SRC 20 ZSX-W	SRC 25 ZSX-W	SRC 35 ZSX-W	SRC 50 ZSX-W3	SRC 60 ZSX-W3
Type			DC-Inverter Heat pump				
Control (included)			Remote control				
Nominal data							
Rated capacity (T=+35°C)	Cooling	kW	2.00 (0.90~3.40)	2.50 (0.90~3.80)	3.50 (0.90~4.50)	5.00 (1.00~6.20)	6.10 (1.00~6.90)
Rated power input (T=+35°C)		kW	0.31 (0.16~0.76)	0.44 (0.16~0.91)	0.74 (0.16~1.27)	1.24 (0.19~1.90)	1.71 (0.19~2.50)
Rated energy efficiency coefficient		EER[1]	6.45	5.68	4.73	4.03	3.57
Rated capacity (T=+7°C)	Heating	kW	2.70 (0.80~5.50)	3.20 (0.80~6.00)	4.30 (0.80~6.80)	6.00 (0.80~8.20)	6.80 (0.80~8.80)
Rated power input (T=+7°C)		kW	0.47 (0.14~1.36)	0.59 (0.14~1.54)	0.90 (0.14~1.87)	1.36 (0.20~2.46)	1.65 (0.20~2.86)
Rated energy performance coefficient		COP[1]	5.74	5.42	4.78	4.41	4.12
Seasonal data							
Design load (Pdesignc)	Cooling	kW	2.00	2.50	3.50	5.00	6.10
Seasonal energy efficiency index		SEER[2]	10.00	10.30	9.50	8.30	7.80
Seasonal energy efficiency class		626/2011[3]	A+++	A+++	A+++	A++	A++
Annual energy consumption		kWh/y	70	85	129	211	274
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2.80	3.00	3.40	4.50	5.20
Seasonal performance coefficient		SCOP[2]	5.20	5.20	5.10	4.70	4.70
Seasonal energy efficiency (ηs)		%	205.00	205.00	201.00	185.00	185.00
Seasonal energy efficiency class		626/2011[3]	A+++	A+++	A+++	A++	A++
Annual energy consumption		kWh/y	754	808	934	1341	1551
Electrical data							
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz				
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²	3 x 2.5 mm²	3 x 4 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4	4	4
Nominal absorbed current	Cooling	A	1.80	2.40	3.50	5.40	7.50
	Heating	A	2.50	3.00	4.30	6.00	7.20
Max current		A	9.00	9.00	9.00	15.00	15.00
Max power input		kW	1.92	1.92	1.92	2.90	2.90
Refrigerant circuit data							
Refrigerant[4]		Type (GWP)	R32 (675)				
Refrigerant precharge		Kg	1.2	1.2	1.2	1.3	1.3
Tons of CO2 equivalent		t	0.810	0.810	0.810	0.878	0.878
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Max splitting distance		m	25	25	25	30	30
Max splitting level difference I.U./O.U.		m	15	15	15	20	20
Max. splitting without additional charge		m	15	15	15	15	15
Additional charge		g/m	20	20	20	20	20
Indoor unit specifications							
Dimensions	LxDxH	mm	920x220x305	920x220x305	920x220x305	920x220x305	920x220x305
Net weight		Kg	13	13	13	13	13
Sound power level	Max	dB(A)	55	56	58	62	63
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	38/31/24/19	39/33/25/19	43/35/26/19	44/39/31/22	48/41/33/22
	Heating		38/33/25/19	40/34/27/19	42/35/28/19	47/41/33/23	47/42/34/23
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	678/546/360/300	732/600/402/300	786/648/438/300	858/744/468/324	978/804/534/324
	Heating		732/618/432/324	768/660/468/324	834/708/516/324	1038/858/588/372	1068/822/654/372
Outdoor unit specifications							
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	43	43	43	45	45
Sound power level	Max	dB(A)	58	58	62	63	65
Sound pressure level	Max	dB(A)	45	45	48	51	53
Air flow volume	Max	m³/h	1860	1860	2160	2340	2490
Operating range (outdoor temperature)	Cooling	°C	-15~46				
	Heating	°C	-20~24				
Optional parts							
Wi-Fi module			Included				
Interface for home automation connection and wired control[5]			SC-BIKN2-E				

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation protocols available: KNX, Modbus, BACnet. The use of the SC-BIKN2-E interface card inhibits some functions of the unit. Contact your contact person for further details.

MITSUBISHI HEAVY INDUSTRIES

KIREIA ICE

KIREIA ICE includes all the benefits of KIREIA PLUS, adding an extra feature that makes it especially suitable for use in harsh climates.

TOP A+++

A+++ class in both cooling and heating for all power sizes

TOP -25°C

Outdoor temperature range in heating down to -25°C, unique on the market

KIREIA ICE is the top of the range, with performance optimised for cold climates and continuity of heating.

The values shown are the result of an internal comparative analysis with the main competitors in the relevant market segment. Values updated in September 2025 based on data in the 2025 public catalogues.

Ask your sales representative for more information.

KEY

TOP *Top feature, the best data on the market*

Silver feature, one of the best figures on the market

KIREIA Ice

WALL

INCLUDED

SRK 20~35 ZTX-WA

Remote control included

SRC 20~35 ZTX-WA

Indoor unit model			SRK 20 ZTX-WA	SRK 25 ZTX-WA	SRK 35 ZTX-WA
Outdoor unit model			**SRC 20 ZTX-WA**	**SRC 25 ZTX-WA**	**SRC 35 ZTX-WA**
Type			DC-Inverter Heat pump		
Control (included)			Remote control		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	2.00 (0.90~3.50)	2.50 (0.90~3.80)	3.50 (0.90~4.50)
Rated power input (T=+35°C)		kW	0.32 (0.16~0.77)	0.45 (0.16~0.91)	0.74 (0.16~1.18)
Rated energy efficiency coefficient		EER[1]	6.25	5.56	4.73
Rated capacity (T=+7°C)	Heating	kW	2.70 (0.90~7.60)	3.20 (0.90~7.80)	4.30 (0.90~8.00)
Rated power input (T=+7°C)		kW	0.47 (0.17~2.31)	0.59 (0.17~2.45)	0.87 (0.17~2.50)
Rated energy performance coefficient		COP[1]	5.74	5.42	4.94
Seasonal data					
Design load (Pdesignc)	Cooling	kW	2.00	2.50	3.50
Seasonal energy efficiency index		SEER[2]	9.60	9.50	9.50
Seasonal energy efficiency class		626/2011[3]	A+++	A+++	A+++
Annual energy consumption		kWh/y	73	93	129
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2.80	3.00	3.40
Seasonal performance coefficient		SCOP[2]	5.20	5.20	5.10
Seasonal energy efficiency (ns)		%	205.00	205.00	201.00
Seasonal energy efficiency class		626/2011[3]	A+++	A+++	A+++
Annual energy consumption		kWh/y	755	808	934
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz		
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²	3 x 2.5 mm²
Wiring cables I.U./O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	1.60	2.10	3.40
	Heating	A	2.20	2.70	4.10
Max current		A	14.50	14.50	14.50
Max power input		kW	2.54	2.70	2.75
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	1.25	1.25	1.25
Tons of CO2 equivalent		t	0.844	0.844	0.844
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")
Max splitting distance		m	25	25	25
Max splitting level difference I.U./O.U.		m	15	15	15
Max. splitting without additional charge		m	15	15	15
Additional charge		g/m	20	20	20
Indoor unit specifications					
Dimensions	LxDxH	mm	920x220x305	920x220x305	920x220x305
Net weight		Kg	13	13	13
Sound power level	Max	dB(A)	53	55	57
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	38/31/24/19	39/33/25/19	43/35/26/19
	Heating		40/33/25/19	41/34/27/19	42/35/28/19
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	642/516/348/288	702/576/384/288	792/618/420/288
	Heating		852/624/432/336	888/660/468/324	918/708/516/336
Outdoor unit specifications					
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	45	45	45
Sound power level	Max	dB(A)	57	57	59
Sound pressure level	Max	dB(A)	45	45	47
Air flow volume	Max	m³/h	1860	1860	2148
Operating range (outdoor temperature)	Cooling	°C	-15~46		
	Heating	°C	-25~24		
Optional parts					
Wi-Fi module			Included		
Interface for home automation connection and wired control[5]			SC-BIKN2-E		

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation protocols available: KNX, Modbus, BACnet. The use of the SC-BIKN2-E interface card inhibits some functions of the unit. Contact your contact person for further details.

MITSUBISHI HEAVY INDUSTRIES

KIREIA

RANGE DEPTH AND EFFICIENCY

2.0-5.0 kW

Kireia Plus features a wide depth of range

A+++

Highest efficiency on the market for sizes from 2.0 to 2.5 kW in cooling and heating

ABSOLUTE QUIETNESS IN RELATION TO THE VOLUME OF AIR TREATED

19 dB

Maximum airflow of 300 m³/h at the minimum noise level of 19 dB - the best on the market (2.5 kW)

26.5 dB

On average across different treated air volumes (2.5 kW), KIREIA is the quietest air conditioner

KIREIA (2.5 kW) is, on average, the quietest air conditioner in its market segment, while also delivering extremely high thermal performance.

MAXIMUM EFFICIENCY IN HEATING AND COOLING

8.0 SEER

SEER among the highest in its market segment (average 2.5-3.5-5.0 kW)

4.7 SCOP

SCOP among the highest in its market segment (average 2.5-3.5-5.0 kW)

KIREIA is among the most efficient air conditioners in its market segment.

PIPING LENGTH AND INSTALLATION OPTIONS

20 m

Best maximum piping length in its market tier (2.5 kW)

15 m

Best maximum piping length without additional refrigerant charge on the market (2.5 kW)

KIREIA is the air conditioner that, on average, offers the greatest installation flexibility on the market.

The values shown are the result of an internal comparative analysis with the main competitors in the relevant market segment. Values updated in September 2025 based on data in the 2025 public catalogues.

Ask your sales representative for more information.

KEY

Top feature, the best data on the market

Silver feature, one of the best figures on the market

KIREIA

WALL

INCLUDED

titanium

SRK 20~50 ZS-WF
SRK 20~50 ZS-WFT

Remote control included

SRC 20 ZS-W
SRC 25~35 ZS-W2

SRC 50 ZS-W

Indoor unit model			SRK 20 ZS-WF(T)	SRK 25 ZS-WF(T)	SRK 35 ZS-WF(T)	SRK 50 ZS-WF(T)
Outdoor unit model			SRC 20 ZS-W	SRC 25 ZS-W2	SRC 35 ZS-W2	SRC 50 ZS-W
Type			DC-Inverter Heat pump			
Control (included)			Remote control			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	2.00 (0.90~2.90)	2.50 (0.90~3.10)	3.50 (0.90~4.00)	5.00 (1.30~5.50)
Rated power input (T=+35°C)	Cooling	kW	0.44 (0.19~0.80)	0.62 (0.19~0.90)	0.89 (0.17~1.24)	1.35 (0.29~1.80)
Rated energy efficiency coefficient	Cooling	EER[1]	4.55	4.03	3.93	3.70
Rated capacity (T=+7°C)	Heating	kW	2.70 (0.90~4.30)	3.20 (0.90~4.50)	4.00 (0.90~5.00)	5.80 (1.30~6.60)
Rated power input (T=+7°C)	Heating	kW	0.59 (0.20~1.40)	0.74 (0.20~1.42)	0.94 (0.19~1.45)	1.56 (0.25~1.98)
Rated energy performance coefficient	Heating	COP[1]	4.58	4.32	4.26	3.72
Seasonal data						
Design load (Pdesignc)	Cooling	kW	2.00	2.50	3.50	5.00
Seasonal energy efficiency index	Cooling	SEER[2]	8.50	8.50	8.40	7.00
Seasonal energy efficiency class	Cooling	626/2011[3]	A+++	A+++	A++	A++
Annual energy consumption	Cooling	kWh/y	83	103	146	250
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2.60	2.70	3.00	3.80
Seasonal performance coefficient	Heating (average climate conditions)	SCOP[2]	4.60	4.70	4.70	4.60
Seasonal energy efficiency (ηs)	Heating (average climate conditions)	%	181.00	185.00	185.00	181.00
Seasonal energy efficiency class	Heating (average climate conditions)	626/2011[3]	A++	A++	A++	A++
Annual energy consumption	Heating (average climate conditions)	kWh/y	793	804	895	1158
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz			
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²	3 x 2.5 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	2.50	3.10	4.20	5.90
Nominal absorbed current	Heating	A	3.00	3.60	4.40	6.90
Max current		A	9.00	9.00	9.00	14.50
Max power input		kW	1.65	1.65	1.65	2.68
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Refrigerant precharge		Kg	0.62	0.62	0.78	1.05
Tons of CO2 equivalent		t	0.419	0.419	0.527	0.709
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")
Max splitting distance		m	20	20	20	25
Max splitting level difference I.U./O.U.		m	10	10	10	15
Max. splitting without additional charge		m	15	15	15	15
Additional charge		g/m	20	20	20	20
Indoor unit specifications						
Dimensions	LxDxH	mm	870x230x290	870x230x290	870x230x290	870x230x290
Net weight		Kg	9.5	9.5	9.5	10
Sound power level	Max	dB(A)	50	53	56	60
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	34/25/22/19	36/28/23/19	40/30/26/19	46/36/29/22
Sound pressure level (Hi/Me/Lo/ULo)	Heating	dB(A)	36/29/23/19	39/30/24/19	41/36/25/19	46/37/31/24
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	558/420/354/300	594/480/354/300	678/522/420/300	726/594/444/354
Air flow volume (Hi/Me/Lo/ULo)	Heating	m³/h	600/510/390/354	678/522/402/354	738/660/420/336	834/672/546/444
Outdoor unit specifications						
Dimensions	LxDxH	mm	780(+62)x290x540	780(+62)x290x540	780(+62)x290x540	780(+62)x290x595
Net weight		Kg	31.5	31	34.5	36
Sound power level	Max	dB(A)	56	58	61	63
Sound pressure level	Max	dB(A)	45	46	50	52
Air flow volume	Max	m³/h	1482	1644	1890	1968
Operating range (outdoor temperature)	Cooling	°C	-15~46			
Operating range (outdoor temperature)	Heating	°C	-15~24			
Optional parts						
Wi-Fi module			Included			
Interface for home automation connection and wired control[5]			SC-BIKN2-E			

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation protocols available: KNX, Modbus, BACnet. The use of the SC-BIKN2-E interface card inhibits some functions of the unit. Contact your contact person for further details.

MITSUBISHI HEAVY INDUSTRIES

KIREIA Evo

RANGE DEPTH AND EFFICIENCY

TOP 1.5-7.1 kW

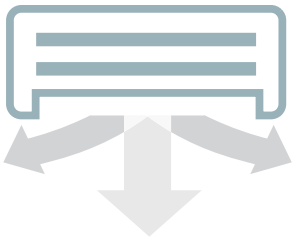
Unique in this product segment in offering a range of seven different sizes

TOP 1.5 kW

Minimum size 1.5 kW, very useful for new buildings

The minimum 1.5 kW size is especially useful in new buildings, where in smaller rooms the required capacity can be very limited. Customer costs remain contained and aligned with actual needs.

INDOOR COMFORT



TOP 3D auto

By pressing a single button, you can select the optimal 3D cooling/ heating mode

KIREIA EVO pays great attention to indoor comfort with pleasant airflow patterns.

The values shown are the result of an internal comparative analysis with the main competitors in the relevant market segment. Values updated in September 2025 based on data in the 2025 public catalogues.

Ask your sales representative for more information.

KEY

Top feature, the best data on the market

Silver feature, one of the best figures on the market

KIREIA Evo

WALL

SRK 15~50 ZTL-W

INCLUDED

Remote control included

SRC 15 ZTL-W
SRC 20 ZTL-W
SRC 25 ZTL-W
SRC 35 ZTL-W

SRC 50 ZTL-W

*the "weekly timer" function can only be used from the WF-RAC application

Indoor unit model			SRK 15 ZTL-W	SRK 20 ZTL-W	SRK 25 ZTL-W	SRK 35 ZTL-W	SRK 50 ZTL-W
Outdoor unit model			SRC 15 ZTL-W	SRC 20 ZTL-W	SRC 25 ZTL-W	SRC 35 ZTL-W	SRC 50 ZTL-W
Type			DC-Inverter Heat pump				
Control (included)			Remote control				
Nominal data							
Rated capacity (T=+35°C)	Cooling	kW	1.50 (0.80~2.50)	2.00 (0.70~2.80)	2.50 (0.80~3.20)	3.50 (0.80~3.70)	5.00 (1.30~5.30)
Rated power input (T=+35°C)		kW	0.35 (0.20~0.85)	0.51 (0.20~0.92)	0.58 (0.19~0.95)	1.05 (0.19~1.30)	1.59 (0.29~1.77)
Rated energy efficiency coefficient		EER[1]	4.29	3.92	4.31	3.33	3.14
Rated capacity (T=+7°C)	Heating	kW	2.00 (0.90~4.10)	2.70 (0.90~4.20)	3.00 (1.00~4.80)	3.80 (1.00~4.90)	5.80 (1.30~6.30)
Rated power input (T=+7°C)		kW	0.42 (0.21~1.39)	0.64 (0.21~1.40)	0.66 (0.21~1.48)	0.90 (0.21~1.50)	1.62 (0.27~2.04)
Rated energy performance coefficient		COP[1]	4.76	4.22	4.55	4.22	3.58
Seasonal data							
Design load (Pdesignc)	Cooling	kW	1.50	2.00	2.50	3.50	5.00
Seasonal energy efficiency index		SEER[2]	6.40	6.70	6.90	6.50	6.50
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++	A++	A++
Annual energy consumption		kWh/y	83	105	127	189	270
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2.30	2.40	2.70	2.80	4.00
Seasonal performance coefficient		SCOP[2]	4.40	4.40	4.70	4.70	4.30
Seasonal energy efficiency (ηs)		%	173.00	173.00	185.00	185.00	169.00
Seasonal energy efficiency class		626/2011[3]	A+	A+	A++	A++	A+
Annual energy consumption		kWh/y	732	764	804	835	1302
Electrical data							
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz				
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²	3 x 2.5 mm²	3 x 2.5 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4	4	4
Nominal absorbed current	Cooling	A	2.00	2.90	3.20	4.90	7.00
	Heating	A	2.40	3.50	3.60	4.30	7.10
Max current		A	9.00	9.00	9.00	9.00	14.50
Max power input		kW	1.53	1.53	1.63	1.65	2.24
Refrigerant circuit data							
Refrigerant[4]		Type (GWP)	R32 (675)				
Refrigerant precharge		Kg	0.43	0.43	0.59	0.59	0.90
Tons of CO2 equivalent		t	0.290	0.290	0.398	0.398	0.606
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")
Max splitting distance		m	20	20	20	20	25
Max splitting level difference I.U./O.U.		m	15	15	15	15	20
Max. splitting without additional charge		m	10	10	10	10	15
Additional charge		g/m	20	20	20	20	20
Indoor unit specifications							
Dimensions	LxDxH	mm	798x210x294	798x210x294	798x210x294	798x210x294	798x210x294
Net weight		Kg	8.5	8.5	9	9	9.5
Sound power level	Max	dB(A)	53	54	55	57	60
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	36/30/23/19	37/31/23/19	41/36/26/22	42/37/27/22	47/40/32/25
	Heating		38/32/24/19	39/34/25/19	41/36/29/22	43/37/31/22	47/40/33/25
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	570/450/294/228	594/468/294/228	600/480/318/264	624/510/330/264	750/624/432/324
	Heating		600/522/348/264	624/546/372/264	660/564/390/300	708/588/408/300	756/690/534/384
Outdoor unit specifications							
Dimensions	LxDxH	mm	645(+57)x275x540	645(+57)x275x540	645(+57)x275x540	645(+57)x275x540	780(+62)x290x595
Net weight		Kg	19.5	19.5	21.5	21.5	31.5
Sound power level	Max	dB(A)	57	58	59	62	65
Sound pressure level	Max	dB(A)	44	46	47	50	53
Air flow volume	Max	m³/h	1776	1776	1302	1446	2028
Operating range (outdoor temperature)	Cooling	°C	-15~46				
	Heating	°C	-15~24				
Optional parts							
Wi-Fi module			Included				
Interface for home automation connection and wired control[5]			SC-BIKN2-E				

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MITSUBISHI HEAVY INDUSTRIES

KIREIA Evo

WALL

SRK 63~71 ZTL-W

INCLUDED

Remote control included

SRC 63~71 ZTL-W

*the "weekly timer" function can only be used from the WF-RAC application

Indoor unit model			SRK 63 ZTL-W	SRK 71 ZTL-W
Outdoor unit model			SRC 63 ZTL-W	SRC 71 ZTL-W
Type			DC-Inverter Heat pump	
Control (included)			Remote control	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	6.30 (1.20~7.10)	7.10 (1.20~7.30)
Rated power input (T=+35°C)		kW	1.84 (0.27~2.43)	2.45 (0.28~2.67)
Rated energy efficiency coefficient		EER[1]	3.42	2.90
Rated capacity (T=+7°C)	Heating	kW	7.10 (1.00~8.50)	8.00 (1.10~9.10)
Rated power input (T=+7°C)		kW	2.01 (0.25~2.89)	2.37 (0.26~3.30)
Rated energy performance coefficient		COP[1]	3.53	3.38
Seasonal data				
Design load (Pdesignc)	Cooling	kW	6.30	7.10
Seasonal energy efficiency index		SEER[2]	7.50	7.10
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/y	295	351
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.30	6.20
Seasonal performance coefficient		SCOP[2]	4.60	4.40
Seasonal energy efficiency (ηs)		%	181.00	173.00
Seasonal energy efficiency class		626/2011[3]	A++	A+
Annual energy consumption		kWh/y	1615	1972
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 4 mm^2	3 x 4 mm^2
Wiring cables I.U./O.U.		nb.	4	4
Nominal absorbed current	Cooling	A	8.10	10.80
	Heating	A	8.80	10.40
Max current		A	17.00	17.00
Max power input		kW	3.18	3.63
Refrigerant circuit data				
Refrigerant[4]		Type (GWP)	R32 (675)	
Refrigerant precharge		Kg	1.20	1.20
Tons of CO2 equivalent		t	0.810	0.810
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Max splitting distance		m	30	30
Max splitting level difference I.U./O.U.		m	20	20
Max. splitting without additional charge		m	15	15
Additional charge		g/m	20	20
Indoor unit specifications				
Dimensions	LxDxH	mm	998x230x294	998x230x294
Net weight		Kg	12	12
Sound power level	Max	dB(A)	60	61
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	46/43/38/30	48/44/39/31
	Heating		47/43/39/32	47/44/40/33
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m^3/h	1020/882/726/564	1050/912/756/564
	Heating		1104/1032/846/696	1134/1062/876/696
Outdoor unit specifications				
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	42.5	42.5
Sound power level	Max	dB(A)	66	66
Sound pressure level	Max	dB(A)	54	54
Air flow volume	Max	m^3/h	2580	2580
Operating range (outdoor temperature)	Cooling	°C	-15~46	
	Heating	°C	-15~24	
Optional parts				
Wi-Fi module			Included	
Interface for home automation connection and wired control[5]			SC-BIKN2-E	

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KIREIA Smart

WALL

NEW

SRK 25-35-ZSP-W1

OPTIONAL

Remote control included

SRC 25~35 ZSP-W1

Indoor unit model			SRK 25 ZSP-W1	SRK 35 ZSP-W1
Outdoor unit model			**SRC 25 ZSP-W1**	**SRC 35 ZSP-W1**
Type			DC-Inverter Heat pump	
Control (included)			Remote control	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	2.50 (0.80~3.20)	3.20 (0.90~3.70)
Rated power input (T=+35°C)		kW	0.71 (0.18~1.03)	0.91 (0.18~1.30)
Rated energy efficiency coefficient		EER[1]	3.52	3.52
Rated capacity (T=+7°C)	Heating	kW	2.80 (0.80~4.10)	3.60 (0.90~4.60)
Rated power input (T=+7°C)		kW	0.69 (0.20~1.38)	0.93 (0.19~1.43)
Rated energy performance coefficient		COP[1]	4.05	3.87
Seasonal data				
Design load (Pdesignc)	Cooling	kW	2.50	3.20
Seasonal energy efficiency index		SEER[2]	6.90	7.30
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/y	127	154
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2.70	2.80
Seasonal performance coefficient		SCOP[2]	4.10	4.50
Seasonal energy efficiency (ηs)		%	161.00	177.00
Seasonal energy efficiency class		626/2011[3]	A+	A+
Annual energy consumption		kWh/y	923	872
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz	
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²
Wiring cables I.U./O.U.		nb.	4	4
Nominal absorbed current	Cooling	A	3.40	4.50
	Heating	A	3.40	4.60
Max current		A	9.00	9.00
Max power input		kW	1.65	1.65
Refrigerant circuit data				
Refrigerant[4]		Type (GWP)	R32 (675)	
Refrigerant precharge		Kg	0.48	0.65
Tons of CO2 equivalent		t	0.324	0.439
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")
Max splitting distance		m	15	15
Max splitting level difference I.U./O.U.		m	15	15
Max. splitting without additional charge		m	10	15
Additional charge		g/m	20	-
Indoor unit specifications				
Dimensions	LxDxH	mm	783x210x267	783x210x267
Net weight		Kg	7	7
Sound power level	Max	dB(A)	57	57
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	44/33/21	44/35/22
	Heating		42/33/25	44/35/27
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	600/456/258	624/432/258
	Heating		576/456/318	594/432/330
Outdoor unit specifications				
Dimensions	LxDxH	mm	645(+57)x275x540	645(+57)x275x540
Net weight		Kg	22	24
Sound power level	Max	dB(A)	57	60
Sound pressure level	Max	dB(A)	47	47
Air flow volume	Max	m³/h	1314	1368
Operating range (outdoor temperature)	Cooling	°C	-15~46	
	Heating	°C	-15~24	
Optional parts				
Wi-Fi module			INWFIUNI001I000	
Interface for home automation connection and wired control			Not available for this product	

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

LARGE COMFORT

RANGE DEPTH

8.0 kW

An absolute one-of-a-kind on the market for residential wall-mounted units

MHI is among the few to offer a dedicated residential wall-mounted segment at these power levels, with strong air throw to manage large rooms with a single indoor unit.

ABSOLUTE QUIETNESS IN RELATION TO THE VOLUME OF AIR TREATED

25 dB

Minimum noise level, the best on the market (6 kW)

624 mc/h

Large Comfort is the air conditioner in its market segment with the highest treated air volumes (6 kW)

On average, Large Comfort is the quietest air conditioner in its market segment, while also delivering best-in-class thermal performance.

MAXIMUM EFFICIENCY IN HEATING AND COOLING

8.1 SEER

Highest SEER in its market segment (6.0 kW)

4.7 SCOP

Highest SCOP in its market segment (6.0 kW)

Large Comfort is the most efficient air conditioner in its market segment across all sizes.

INSTALLATION OPTIONS IN COLD CLIMATES

-15°C

Minimum cooling operating temperature

Large Comfort - thanks to both its air throw and its capacity - is well suited for use in data centres (CED) or similar rooms where cooling is required even in winter, ensuring the best operating capability in harsh conditions.

The values shown are the result of an internal comparative analysis with the main competitors in the relevant market segment. Values updated in September 2025 based on data in the 2025 public catalogues.

Ask your sales representative for more information.

KEY

Top feature, the best data on the market

Silver feature, one of the best figures on the market

LARGE COMFORT

WALL

SRK 63~80 ZR-WF

INCLUDED

Remote control included

SRC 63 ZR-W

SRC 71~80 ZR-W

Indoor unit model			SRK 63 ZR-WF	SRK 71 ZR-WF	SRK 80 ZR-WF
Outdoor unit model			**SRC 63 ZR-W**	**SRC 71 ZR-W**	**SRC 80 ZR-W**
Type			DC-Inverter Heat pump		
Control (included)			Remote control		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	6.30 (1.20~7.40)	7.10 (2.30~7.80)	8.00 (2.30~9.70)
Rated power input (T=+35°C)		kW	1.63 (0.20~2.50)	1.93 (0.48~2.40)	2.09 (0.48~3.20
Rated energy efficiency coefficient		EER[1]	3.89	3.68	3.83
Rated capacity (T=+7°C)	Heating	kW	7.10 (0.80~9.30)	8.00 (2.00~10.80)	9.00 (2.10~11.20)
Rated power input (T=+7°C)		kW	1.64 (0.16~2.80)	1.95 (0.40~3.60)	2.27 (0.40~3.50)
Rated energy performance coefficient		COP[1]	4.33	4.10	3.96
Seasonal data					
Design load (Pdesignc)	Cooling	kW	6.30	7.10	8.00
Seasonal energy efficiency index		SEER[2]	8.10	7.40	7.00
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++
Annual energy consumption		kWh/y	273	337	401
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.40	6.60	7.10
Seasonal performance coefficient		SCOP[2]	4.70	4.50	4.40
Seasonal energy efficiency (ηs)		%	185.00	177.00	173.00
Seasonal energy efficiency class		626/2011[3]	A++	A+	A+
Annual energy consumption		kWh/y	1608	2055	2259
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz		
Power cable		Type	3 x 4 mm^2	3 x 4 mm^2	3 x 4 mm^2
Wiring cables I.U./O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	7.20	8.60	9.30
	Heating	A	7.20	8.70	10.10
Max current		A	14.50	17.00	17.00
Max power input		kW	2.90	3.65	3.65
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	1.25	1.50	1.60
Tons of CO2 equivalent		t	0.844	1.013	1.080
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 15.88(5/8")	6.35(1/4") - 15.88(5/8")
Max splitting distance		m	30	30	30
Max splitting level difference I.U./O.U.		m	20	20	20
Max. splitting without additional charge		m	15	15	15
Additional charge		g/m	20	25	25
Indoor unit specifications					
Dimensions	LxDxH	mm	1197x262x339	1197x262x339	1197x262x339
Net weight		Kg	15.5	15.5	16.5
Sound power level	Max	dB(A)	58	60	62
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	44/39/35/25	44/41/37/25	47/44/39/26
	Heating		44/38/34/28	46/39/35/28	47/41/36/29
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m^3/h	1230/1086/942/624	1230/1116/972/624	1410/1212/1050/624
	Heating		1350/1140/990/786	1500/1188/1038/798	1590/1278/1104/810
Outdoor unit specifications					
Dimensions	LxDxH	mm	800(+71)x290x640	880(+88)x340x750	880(+88)x340x750
Net weight		Kg	45	56	57
Sound power level	Max	dB(A)	65	63	67
Sound pressure level	Max	dB(A)	54	53	56
Air flow volume	Max	m^3/h	2490	3300	3780
Operating range (outdoor temperature)	Cooling	°C	-15~46		
	Heating	°C	-15~24		
Optional parts					
Wi-Fi module			Included		
Interface for home automation connection and wired control[5]			SC-BIKN2-E		

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation protocols available: KNX, Modbus, BACnet. The use of the SC-BIKN2-E interface card inhibits some functions of the unit. Contact your contact person for further details.

MITSUBISHI HEAVY INDUSTRIES

PRIMARY HEATING

CONSOLE

SRF 25~35 ZS-W / SRF 50 ZSX-W

OPTIONAL

Remote control included

SRC 25~35 ZS-W2

SRC 50 ZSX-W3

Indoor unit model			SRF 25 ZS-W	SRF 35 ZS-W	SRF 50 ZSX-W
Outdoor unit model			SRC 25 ZS-W2	SRC 35 ZS-W2	SRC 50 ZSX-W3
Type			DC-Inverter Heat pump		
Control (included)			Remote control		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	2,50 (0,90~3,10)	3,50 (0,90~4,10)	5,00 (1,10~5,60)
Rated power input (T=+35°C)		kW	0,59 (0,19~0,89)	0,82 (0,18~1,33)	1,32 (0,19~1,90)
Rated energy efficiency coefficient		EER[1]	4,24	4,27	3,79
Rated capacity (T=+7°C)	Heating	kW	2,90 (0,80~3,70)	4,50 (0,80~5,20)	6,00 (0,80~7,40)
Rated power input (T=+7°C)		kW	0,66 (0,20~1,14)	1,12 (0,19~1,53)	1,58 (0,19~2,34)
Rated energy performance coefficient		COP[1]	4,39	4,02	3,80
Seasonal data					
Design load (Pdesignc)	Cooling	kW	2,50	3,50	5,00
Seasonal energy efficiency index		SEER[2]	7,40	8,10	7,50
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++
Annual energy consumption		kWh/y	119	152	234
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2,40	2,90	4,10
Seasonal performance coefficient		SCOP[2]	4,00	4,70	4,60
Seasonal energy efficiency (ns)		%	157,00	185,00	181,00
Seasonal energy efficiency class		626/2011[3]	A+	A++	A++
Annual energy consumption		kWh/y	840	864	1247
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz		
Power cable		Type	3 x 2,5 mm²	3 x 2,5 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	3,00	3,90	5,80
	Heating	A	3,30	5,10	6,90
Max current		A	9,00	9,00	15,00
Max power input		kW	1,65	1,65	2,90
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	0,62	0,78	1,3
Tons of CO2 equivalent		t	0,419	0,527	0,878
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6,35(1/4") - 9,52(3/8")	6,35(1/4") - 9,52(3/8")	6,35(1/4") - 12,74(1/2")
Max splitting distance		m	20	20	30
Max splitting level difference I.U./O.U.		m	10	10	20
Max. splitting without additional charge		m	10	15	15
Additional charge		g/m	20	20	20
Indoor unit specifications					
Dimensions	LxDxH	mm	860x238x600	860x238x600	860x238x600
Net weight		Kg	18	19	19
Sound power level	Max	dB(A)	51	52	58
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	38/32/29/25	40/35/33/29	46/38/33/28
	Heating		39/35/33/39	41/36/35/33	46/41/38/32
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	540/456/402/348	552/468/438/384	690/576/444/396
	Heating		630/492/462/396	642/498/486/444	720/600/564/456
Outdoor unit specifications					
Dimensions	LxDxH	mm	780(+62)x290x540	780(+62)x290x540	800(+71)x290x640
Net weight		Kg	31	34,5	45
Sound power level	Max	dB(A)	60	64	63
Sound pressure level	Max	dB(A)	47	51	51
Air flow volume	Max	m³/h	1644	1890	2340
Operating range (outdoor temperature)	Cooling	°C	-15~46		
	Heating	°C	-15~24		
Optional parts					
Wi-Fi module			WF-RAC		
Interface for home automation connection and wired control[5]			SC-BIKN2-E		

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation protocols available: KNX, Modbus, BACnet. The use of the SC-BIKN2-E interface card inhibits some functions of the unit. Contact your contact person for further details.

LIGHT COMMERCIAL

DUCTED LOW STATIC PRESSURE

SRR 25-35-50-60 ZS-W

OPTIONAL

Remote control included

SRC 25~35 ZS-W2

SRC 50~60 ZSX-W3

Indoor unit model			SRR 25 ZS-W	SRR 35 ZS-W	SRR 50 ZS-W	SRR 60 ZS-W
Outdoor unit model			SRC 25 ZS-W2	SRC 35 ZS-W2	SRC 50 ZSX-W3	SRC 60 ZSX-W3
Type			DC-Inverter Heat pump			
Control (included)			Remote control			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	2.50 (0.90~3.20)	3.50 (0.90~4.10)	5.00 (1.20~6.00)	5.60 (1.20~6.50)
Rated power input (T=+35°C)		kW	0.62 (0.19~0.99)	0.93 (0.19~1.26)	1.42 (0.22~2.02)	1.70 (0.22~2.57)
Rated energy efficiency coefficient		EER[1]	4.03	3.76	3.52	3.29
Rated capacity (T=+7°C)	Heating	kW	2.90 (0.90~4.40)	4.20 (1.00~5.20)	5.40 (1.00~8.20)	6.70 (1.00~8.60)
Rated power input (T=+7°C)		kW	0.65 (0.19~1.32)	1.01 (0.20~1.45)	1.39 (0.20~2.86)	1.89 (0.20~2.89)
Rated energy performance coefficient		COP[1]	4.46	4.16	3.88	3.54
Seasonal data						
Design load (Pdesignc)	Cooling	kW	2.50	3.50	5.00	5.60
Seasonal energy efficiency index		SEER[2]	6.60	6.80	6.50	6.20
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++	A++
Annual energy consumption		kWh/y	133	181	270	316
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2.50	3.10	4.50	5.20
Seasonal performance coefficient		SCOP[2]	4.10	4.50	4.40	4.30
Seasonal energy efficiency (ηs)		%	161.00	177.00	173.00	169.00
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+	A+
Annual energy consumption		kWh/y	853	966	1431	1692
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz			
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²	3 x 4 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	3.10	4.30	6.20	7.50
	Heating	A	3.20	4.70	6.10	8.30
Max current		A	9.00	9.00	15.00	15.00
Max power input		kW	1.65	1.65	2.90	2.90
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Refrigerant precharge		Kg	0.62	0.78	1.3	1.3
Tons of CO2 equivalent		t	0.419	0.527	0.878	0.878
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Splitting distance	Min / Max	m	- / 20	- / 20	3 / 30	3 / 30
Max splitting level difference I.U./O.U.		m	10	10	20	20
Max. splitting without additional charge		m	15	15	15	15
Additional charge		g/m	20	20	20	20
Indoor unit specifications						
Dimensions	LxDxH	mm	750x500x200	750x500x200	950x500x200	950x500x200
Net weight		Kg	20.5	20.5	24	24
Sound power level	Max	dB(A)	59	60	61	63
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	37/33/30/24	38/34/31/25	41/37/34/29	44/38/35/30
	Heating		40/37/34/28	42/38/35/29	43/39/37/32	45/41/38/33
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	570/480/390/270	600/510/420/300	810/660/600/450	870/690/630/480
	Heating		600/540/480/360	630/570/510/390	840/750/660/510	900/780/690/540
Fan static pressure	Std/Max	Pa	5/35	5/35	5/50	5/50
Outdoor unit specifications						
Dimensions	LxDxH	mm	780(+62)x290x540	780(+62)x290x540	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	31	34.5	45	45
Sound power level	Max	dB(A)	58	62	63	65
Sound pressure level	Max	dB(A)	47	50	51	53
Air flow volume	Max	m³/h	1644	1890	2340	2490
Operating range (outdoor temperature)	Cooling	°C	-15~46			
	Heating	°C	-15~24			
Optional parts						
Wi-Fi module[5]			WF-RAC			
Interface for home automation connection and wired control[6]			SC-BIKN2-E			
Kit for recovery from bottom			UT-BAT1EF		UT-BAT2EF	

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. The use of the Wi-Fi module excludes the possibility of connecting any other optional accessory. 6. Home automation protocols available: KNX, Modbus, BACnet.

MITSUBISHI HEAVY INDUSTRIES

LIGHT COMMERCIAL

DUCTED MEDIUM STATIC PRESSURE

FDUM 40~50 VH FDUM 60 VH

OPTIONAL

RCN-KIT4-E2
Optional kit

SRC 40 ZSX-W1
SRC 50~60 ZSX-W3

*optional

Compatible with AIRZONE systems

Indoor unit model			FDUM 40 VH	FDUM 50 VH	FDUM 60 VH
Outdoor unit model			SRC 40 ZSX-W1	SRC 50 ZSX-W3	SRC 60 ZSX-W3
Type			DC-Inverter Heat pump		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	4.00 (1.10~4.70)	5.00 (1.10~5.60)	5.60 (1.10~6.30)
Rated power input (T=+35°C)		kW	1.10	1.51	1.54
Rated energy efficiency coefficient		EER[1]	3.62	3.31	3.64
Rated capacity (T=+7°C)	Heating	kW	4.50 (0.60~5.40)	5.40 (0.60~6.30)	6.70 (0.60~7.10)
Rated power input (T=+7°C)		kW	1.10	1.59	1.75
Rated energy performance coefficient		COP[1]	4.09	3.39	3.83
Seasonal data					
Design load (Pdesignc)	Cooling	kW	4.00	5.00	5.60
Seasonal energy efficiency index		SEER[2]	6.11	5.82	6.43
Seasonal energy efficiency class		626/2011[3]	A++	A+	A++
Annual energy consumption		kWh/y	230	301	305
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	3.00	3.70	4.70
Seasonal performance coefficient		SCOP[2]	3.81	3.89	4.37
Seasonal energy efficiency (ηs)		%	149.40	152.60	171.80
Seasonal energy efficiency class		626/2011[3]	A	A	A+
Annual energy consumption		kWh/y	1102	1332	1508
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz		
Power cable		Type	3 x 4 mm2	3 x 4 mm2	3 x 4 mm2
Wiring cables I.U./O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	5.10	6.90	6.80
	Heating	A	5.00	7.20	7.80
Max current		A	15.00	15.00	15.00
Max power input		kW	2.60	2.90	2.90
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	1.30	1.30	1.30
Tons of CO2 equivalent		t	0.878	0.878	0.878
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Max splitting distance	Min / Max	m	30	30	30
Max splitting level difference I.U./O.U.		m	20	20	20
Max. splitting without additional charge		m	15	15	15
Additional charge		g/m	20	20	20
Indoor unit specifications					
Dimensions	LxDxH	mm	750x635x280	750x635x280	950x635x280
Net weight		Kg	29	29	34
Sound power level	Max	dB(A)	60	60	60
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	37/32/29/26	37/32/29/26	36/31/28/25
Air flow volume	P-Hi/Hi/Me/Lo	m3/h	780/600/540/480	780/600/540/480	1200/900/780/600
Fan static pressure	Std/Max	Pa	35/100	35/100	35/100
Outdoor unit specifications					
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	45	45	45
Sound power level	Max	dB(A)	63	63	65
Sound pressure level	Max	dB(A)	52	51	53
Air flow volume	Max	m3/h	1980	2340	2490
Operating range (outdoor temperature)	Cooling	°C	-15~+46		
	Heating	°C	-20~+20	-15~24	
Accessories					
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)		
IR remote control (KIT)			RCN-KIT4-E2		
Optional parts					
Wi-Fi module			INWFIMHI001R100		
Human sensor (KIT)			LB-KIT2		
SUPERLINK interface II			SC-ADNA-E		
Recovery filter (KIT)			UM-FL1EF		UM-FL2EF

1. Value measured according to harmonised standard EN14511. 2. EU Regulation N.206/2012- N.2281/2016 -Value measured according to harmonised standard EN14825. 3. Delegated Regulation UE N.626/2011 with regard to energy labelling indicating the energy consumption of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

LIGHT COMMERCIAL

CEILING

FDE 40~60 VH

OPTIONAL

RCN-E-E3

Optional kit

SRC 40 ZSX-W1
SRC 50~60 ZSX-W3

*optional

Indoor unit model			FDE 40 VH	FDE 50 VH	FDE 60 VH
Outdoor unit model			SRC 40 ZSX-W1	SRC 50 ZSX-W3	SRC 60 ZSX-W3
Type			DC-Inverter Heat pump		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	4.00 (1.10~4.70)	5.00 (1.10~4.70)	5.60 (1.10~6.30)
Rated power input (T=+35°C)		kW	1.02	1.43	1.51
Rated energy efficiency coefficient		EER[1]	3.92	3.49	3.71
Rated capacity (T=+7°C)	Heating	kW	4.50 (0.60~5.40)	5.40 (0.60~5.40)	6.70 (0.60~7.10)
Rated power input (T=+7°C)		kW	1.10	1.46	1.86
Rated energy performance coefficient		COP[1]	4.09	3.70	3.60
Seasonal data					
Design load (Pdesignc)	Cooling	kW	4.00	5.00	5.60
Seasonal energy efficiency index		SEER[2]	A++	A++	A++
Seasonal energy efficiency class		626/2011[3]	6.46	6.15	6.72
Annual energy consumption		kWh/y	217	285	292
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	3.00	3.80	4.50
Seasonal performance coefficient		SCOP[2]	4.02	4.07	4.41
Seasonal energy efficiency (ηs)		%	157.80	159.80	173.40
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+
Annual energy consumption		kWh/y	1045	1307	1430
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	4.80	6.60	6.90
	Heating	A	5.10	7.00	8.70
Max current		A	15.00	15.00	15.00
Max power input		kW	2.60	2.90	2.90
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	1.30	1.30	1.30
Tons of CO2 equivalent		t	0.878	0.878	0.878
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Max splitting distance		m	30	30	30
Max splitting level difference I.U./O.U.		m	20	20	20
Max. splitting without additional charge		m	15	15	15
Additional charge		g/m	20	20	20
Indoor unit specifications					
Dimensions	LxDxH	mm	1070x690x210	1070x690x210	1320x690x210
Net weight		Kg	28	28	33
Sound power level	Max	dB(A)	60	60	60
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	46/38/36/31	46/38/36/31	47/41/37/32
Air flow volume	P-Hi/Hi/Me/Lo	m³/h	780/600/540/420	780/600/540/420	1200/960/780/600
Outdoor unit specifications					
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	45	45	45
Sound power level	Max	dB(A)	63	63	65
Sound pressure level	Max	dB(A)	52	51	53
Air flow volume	Max	m³/h	1980	2340	2490
Operating range (outdoor temperature)	Cooling	°C	-15~+46		
	Heating	°C	-20~+20	-15~24	
Accessories					
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)		
IR remote control (KIT)			RCN-E-E3		
Optional parts					
Wi-Fi module			INWFIMHI001R100		
Human sensor (KIT)			LB-E		
SUPERLINK interface II			SC-ADNA-E		

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MITSUBISHI HEAVY INDUSTRIES

FDTC & FDT CASSETTE

TOP 14 kg FDTC

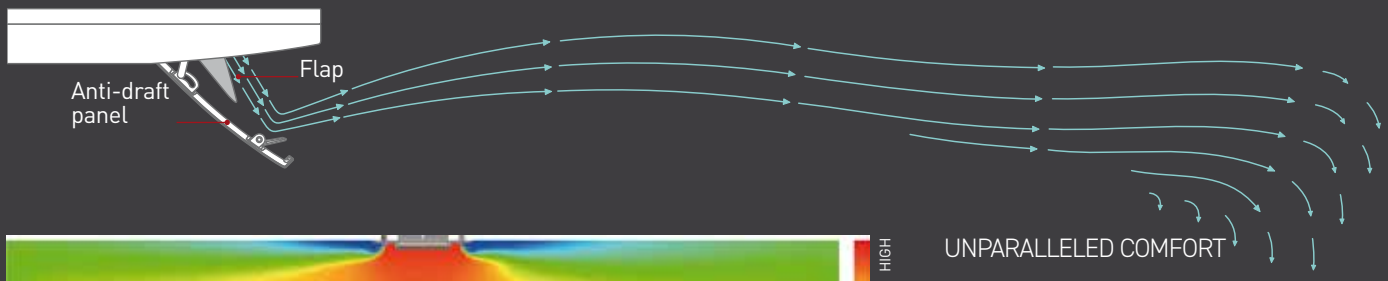
The lightest model on the market

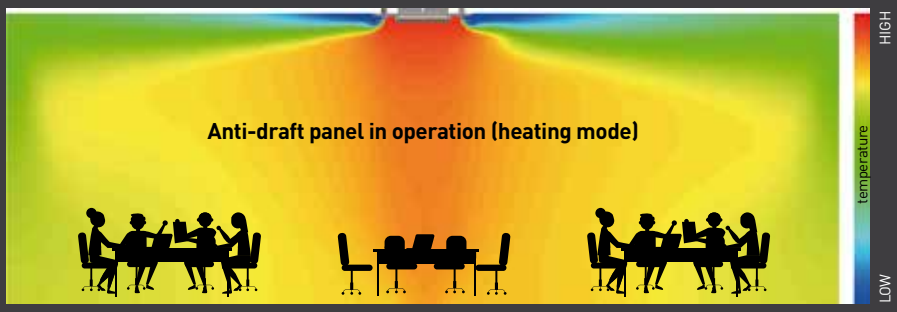
TOP Fresh air intake, via a dedicated accessory, to introduce additional m³/h through the cassette unit.

Anti-draft panel (optional)

Flexible flap control to prevent direct currents.

4 extra flaps, individually controlled in each operating mode: they change the direction of the air flow and prevent the unpleasant sensation of direct currents.





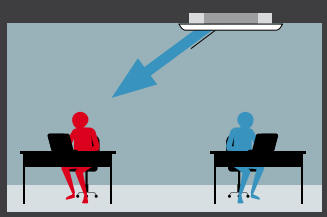
UNPARALLELED COMFORT

The anti-draft panel ensures a uniform air flow and a comfortable temperature in the room, both in cooling and in heating: it can be controlled to instantly eliminate any air currents that are too cold or too hot.

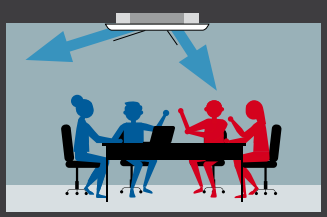
Furthermore, the panel helps the unit to aim the air flow for correct and uniform diffusion in the room.
The additional flaps are closed when the unit is not running.

Individual control of the four flaps (standard and anti-draft panels)

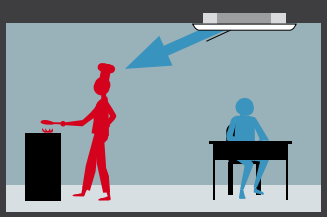
The flap control system lets you direct the air flow as needed



To reach people further away from the unit.



To reach only people who are feeling too hot or too cold.



To reach the warmest parts of the room.

NOTE

The flaps cannot be controlled individually using the IR remote control.

FDTC CASSETTE 60x60

Ultra-compact design

FDTC weighs just 14 kg.
The height of the thin panel and the main body is just 248 mm, allowing for very simple installation.

Measurements reduced to 620 mm, ideal for application in European modular ceilings.

JUST 10 MM THICK

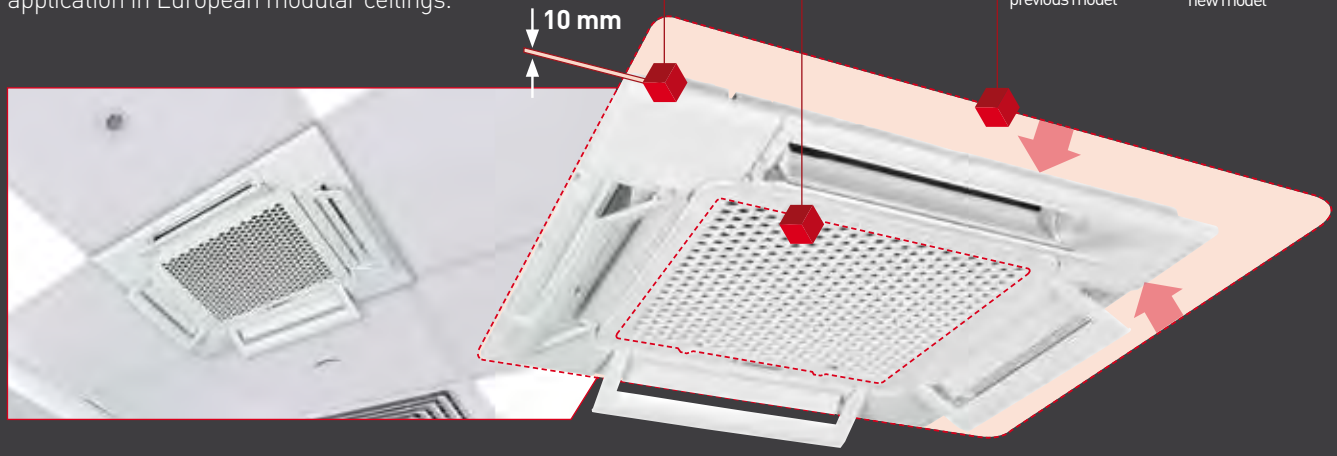
The FDTC panel perfectly adheres to the ceiling because it only protrudes 10 mm.

HONEYCOMB GRILLE

VERY COMPACT DESIGN

The panel dimensions adapt perfectly to European modular ceiling lattices.

700 mm → **620 mm**
previous model — new model



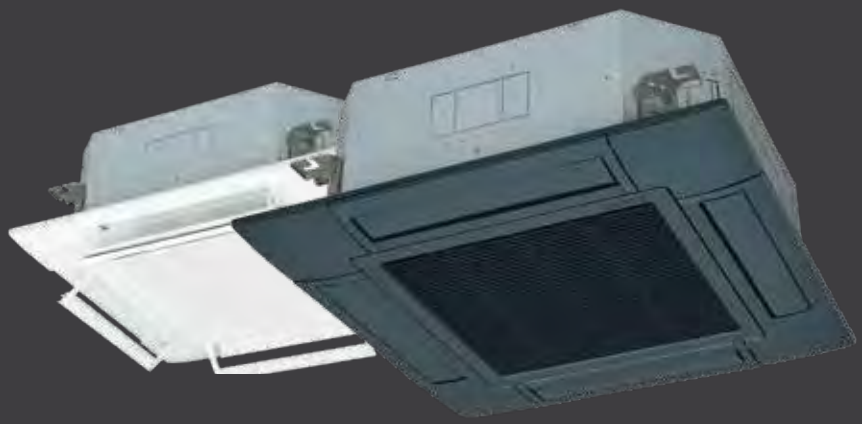
Standard linear and honeycomb panels

Standard linear panel

Standard honeycomb panel

FDT CASSETTE 84x84

Black and white colors of the standard and anti-draft panels, to expand the design possibilities in shops, offices and restaurants.



Anti-draft white panel

Standard black panel

MITSUBISHI HEAVY INDUSTRIES

LIGHT COMMERCIAL

CASSETTE 60X60

FDTC 25-35 VH1/FDTC 40~60 VH
Standard honeycomb panel
TC-PSA-5AW-E

OPTIONAL

FDTC 25-35 VH1/FDTC 40~60 VH
Anti-draft honeycomb panel
TC-PSAE-5AW-E

FDTC 25-35 VH1/FDTC 40~60 VH
Standard linear panel
TC-PSAG-5AW-E

FDTC 25-35 VH1/FDTC 40~60 VH
Anti-draft linear panel
TC-PSAGE-5AW-E

*optional

Indoor unit model			FDTC 25 VH1	FDTC 35 VH1	FDTC 40 VH	FDTC 50 VH	FDTC 60 VH
Outdoor unit model			SRC 25 ZS-W2	SRC 35 ZS-W2	SRC 40 ZSX-W1	SRC 50 ZSX-W3	SRC 60 ZSX-W3
Type			DC-Inverter Heat pump				
Nominal data							
Rated capacity (T=+35°C)	Cooling	kW	2.50 (0.90~3.20)	3.50 (0.90~4.30)	4.00 (1.10~4.70)	5.00 (1.10~5.60)	5.60 (1.10~6.30)
Rated power input (T=+35°C)		kW	0.61 (0.18~0.98)	0.91 (0.18~1.37)	0.98	1.40	1.73
Rated energy efficiency coefficient		EER[1]	4.10	3.85	4.08	3.58	3.23
Rated capacity (T=+7°C)	Heating	kW	2.90 (0.90~4.00)	4.25 (0.90~5.60)	4.50 (0.60~5.40)	5.40 (0.60~6.30)	6.70 (0.60~6.70)
Rated power input (T=+7°C)		kW	0.71 (0.19~1.31)	1.15 (0.19~1.33)	1.13	1.53	2.14
Rated energy performance coefficient		COP[1]	4.08	3.70	3.98	3.53	3.13
Seasonal data							
Design load (Pdesignc)	Cooling	kW	2.50	3.50	4.00	5.00	5.60
Seasonal energy efficiency index		SEER[2]	6.80	7.10	6.94	6.52	6.45
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++	A++	A++
Annual energy consumption		kWh/y	129	173	202	269	304
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	2.40	2.90	4.00	4.30	5.10
Seasonal performance coefficient		SCOP[2]	4.00	4.60	4.37	4.30	4.10
Seasonal energy efficiency (ηs)		%	157.00	181.00	171.80	169.00	161.00
Seasonal energy efficiency class		626/2011[3]	A+	A++	A+	A+	A+
Annual energy consumption		kWh/y	840	883	1283	1401	1744
Electrical data							
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz				
Power cable		Type	3 x 2.5 mm²	3 x 2.5 mm²	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4	4	4
Nominal absorbed current	Cooling	A	3.10	4.30	4.30	6.20	7.60
	Heating	A	3.40	5.30	5.00	6.70	9.40
Max current		A	9.00	9.00	15.00	15.00	15.00
Max power input		kW	1.65	1.65	2.60	2.90	2.90
Refrigerant circuit data							
Refrigerant[4]		Type (GWP)	R32 (675)				
Refrigerant precharge		Kg	0.62	0.78	1.30	1.30	1.30
Tons of CO2 equivalent		t	0.419	0.527	0.878	0.878	0.878
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Max splitting distance		m	20	20	30	30	30
Max splitting level difference I.U./O.U.		m	10	10	20	20	20
Max. splitting without additional charge		m	15	15	15	15	15
Additional charge		g/m	20	20	20	20	20
Indoor unit specifications							
Dimensions	LxDxH	mm	570x570x248	570x570x248	570x570x248	570x570x248	570x570x248
Net weight		Kg	13.5	13.5	14	14	14
Sound power level	Max	dB(A)	52	53	59	59	60
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	39/36/32/28	41/38/34/30	44/40/35/27	44/40/35/27	46/42/38/31
Air flow volume (P-Hi/Hi/Me/Lo)	Cooling	m³/h	510/450/420/360	540/480/450/390	780/660/540/420	780/660/540/420	840/720/600/480
	Heating		570/510/450/390	600/540/480/420	780/660/540/420	780/660/540/420	840/720/600/480
Outdoor unit specifications							
Dimensions	LxDxH	mm	780(+62)x290x540	780(+62)x290x540	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	31	34.5	45	45	45
Sound power level	Max	dB(A)	59	62	63	63	65
Sound pressure level	Max	dB(A)	47	50	52	51	53
Air flow volume	Max	m³/h	1644	1890	1980	2340	2490
Operating range (outdoor temperature)	Cooling	°C	-15~+46	-15~+46	-15~+46	-15~+46	-15~+46
	Heating	°C	-15~24	-15~24	-20~+20	-15~24	-15~24
Accessories							
Decorative panel			TC-PSA-5AW-E (honeycomb) / TC-PSAG-5AW-E (linear)				
Panel size	LxDxH	mm	620x620x10	620x620x10	620x620x10	620x620x10	620x620x10
Net weight		Kg	2.5	2.5	2.5	2.5	2.5
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)				
IR remote control (corner KIT)			RCN-TC-5AW-E3				
Optional parts							
Wi-Fi module			INWFIMHI001R100				
Human sensor (corner KIT)			LB-TC-5W-E				
SUPERLINK interface II			SC-ADNA-E				
Anti-draft panel			TC-PSAE-5AW-E (honeycomb) / TC-PSAGE-5AW-E (linear)				

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LIGHT COMMERCIAL

CASSETTE 84X84

FDT 40~60 VH
Standard white panel
T-PSA-5BW-E

FDT 40~60 VH
Anti-draft white panel
T-PSAE-5BW-E

OPTIONAL

FDT 40~60 VH
Standard black panel
T-PSA-5BB-E

FDT 40~60 VH
Anti-draft black panel
T-PSAE-5BB-E

*optional

Indoor unit model			FDT 40 VH	FDT 50 VH	FDT 60 VH
Outdoor unit model			SRC 40 ZSX-W1	SRC 50 ZSX-W3	SRC 60 ZSX-W3
Type			DC-Inverter Heat pump		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	4.00 (1.10~4.70)	5.00 (1.10~5.60)	5.60 (1.10~6.30)
Rated power input (T=+35°C)		kW	0.89	1.29	1.33
Rated energy efficiency coefficient		EER[1]	4.49	3.88	4.21
Rated capacity (T=+7°C)	Heating	kW	4.50 (0.60~5.40)	5.40 (0.60~6.30)	6.70 (0.60~6.70)
Rated power input (T=+7°C)		kW	1.03	1.31	1.56
Rated energy performance coefficient		COP[1]	4.37	4.12	4.29
Seasonal data					
Design load (Pdesignc)	Cooling	kW	4.00	5.00	5.60
Seasonal energy efficiency index		SEER[2]	8.63	7.93	8.74
Seasonal energy efficiency class		626/2011[3]	A+++	A++	A+++
Annual energy consumption		kWh/y	163	221	225
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	3.90	4.00	5.20
Seasonal performance coefficient		SCOP[2]	4.62	4.63	5.00
Seasonal energy efficiency (ηs)		%	181.80	182.20	197.00
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++
Annual energy consumption		kWh/y	1167	1210	1455
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²
Wiring cables I.U./O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	4.00	5.80	5.90
	Heating	A	4.60	5.90	6.90
Max current		A	15.00	15.00	15.00
Max power input		kW	2.60	2.90	2.90
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	1.30	1.30	1.30
Tons of CO2 equivalent		t	0.878	0.878	0.878
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Max splitting distance		m	30	30	30
Max splitting level difference I.U./O.U.		m	20	20	20
Max. splitting without additional charge		m	15	15	15
Additional charge		g/m	20	20	20
Indoor unit specifications					
Dimensions	LxDxH	mm	840x840x236	840x840x236	840x840x236
Net weight		Kg	19	19	21
Sound power level	Max	dB(A)	50	56	59
Sound pressure levela (P-Hi/Hi/Me/Lo)	Cooling	dB(A)	36/33/30/26	41/33/30/26	44/34/30/27
	Heating		36/33/28/20	42/33/28/20	44/34/30/23
Air flow volume	P-Hi/Hi/Me/Lo	m³/h	1140/960/780/600	1320/960/780/600	1560/1020/840/660
Outdoor unit specifications					
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x290x640	800(+71)x290x640
Net weight		Kg	45	45	45
Sound power level	Max	dB(A)	63	63	65
Sound pressure level	Max	dB(A)	52	51	53
Air flow volume	Max	m³/h	1980	2340	2490
Operating range (outdoor temperature)	Cooling	°C	-15~+46	-15~+46	-15~+46
	Heating	°C	-20~+20	-15~24	-15~24
Accessories					
Decorative panel			T-PSA-5BW-E (white)/ T-PSA-5BB-E (black)		
Panel size	LxDxH	mm	950x950x35	950x950x35	950x950x35
Net weight		Kg	5	5	5
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)		
IR remote control (corner KIT)			RCN-T-5BW-E2 (white)/ RCN-T-5BB-E2 (black)		
Optional parts					
Wi-Fi module			INWFIMHI001R100		
Human sensor (corner KIT)			LB-T-5BW-E (white)/ LB-T-5BB-E (black)		
SUPERLINK interface II			SC-ADNA-E		
Anti-draft panel			T-PSAE-5BW-E (white)/ T-PSAE-5BB-E (black)		

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MITSUBISHI HEAVY INDUSTRIES

LINEUP

RESIDENTIAL MULTISPLIT R32

kW		3.00	4.00	4.50	4.00	5.00	6.00	7.10	8.00	10.00
Nb. of connectable indoor units		2-2	2-2	2-2	2-3	2-3	2-3	2-4	2-4	2-5
										
		SCM 30 ZS-W	SCM 40 ZS-W	SCM 45 ZS-W	SCM 41 ZS-W	SCM 50 ZS-W	SCM 60 ZS-W	SCM 71 ZS-W	SCM 80 ZS-W	SCM 100 ZS-W
	SRK 20 ZSX-WF(T)		✓	✓		✓	✓	✓	✓	✓
	SRK 25 ZSX-WF(T)		✓	✓		✓	✓	✓	✓	✓
	SRK 35 ZSX-WF(T)		✓	✓		✓	✓	✓	✓	✓
	SRK 50 ZSX-WF(T)					✓	✓	✓	✓	✓
	SRK 60 ZSX-WF(T)						✓	✓	✓	✓
	SRK 15 ZS-WF(T)	✓			✓					
	SRK 20 ZS-WF(T)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SRK 25 ZS-WF(T)	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SRK 35 ZS-WF(T)		✓	✓	✓	✓	✓	✓	✓	✓
	SRK 50 ZS-WF(T)					✓	✓	✓	✓	✓
	SRK 71 ZR-WF							✓	✓	✓
	SRK 80 ZR-WF									✓
	SKM 15 ZSP-W	✓			✓					
	SKM 20 ZSP-W	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SKM 25 ZSP-W	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SKM 35 ZSP-W		✓	✓	✓	✓	✓	✓	✓	✓
	SRF 25 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRF 35 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRK 50 ZSX-W					✓	✓	✓	✓	✓
	SRR 25 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRR 35 ZS-W		✓	✓		✓	✓	✓	✓	✓
	SRR 50 ZS-W					✓	✓	✓	✓	✓
	SRR 60 ZS-W						✓	✓	✓	✓
	FDUM 50 VH					✓	✓	✓	✓	✓
	FDE 50 VH					✓	✓	✓	✓	✓
	FDTC 25 VH1		✓	✓		✓	✓	✓	✓	✓
	FDTC 35 VH1		✓	✓		✓	✓	✓	✓	✓
	FDTC 50 VH					✓	✓	✓	✓	✓
	FDTC 60 VH						✓	✓	✓	✓

OUTDOOR UNITS

HIGH PERFORMANCE

Outdoor unit	EER*	COP*	SEER*	SCOP*
SCM 30 ZS-W	5.77	5.41	8.60 / A+++	4.80 / A++
SCM 40 ZS-W	5.00	5.42	9.10 / A+++	4.70 / A++
SCM 45 ZS-W	4.69	5.00	9.10 / A+++	4.70 / A++
SCM 41 ZS-W	5.56	5.56	9.20 / A+++	4.60 / A++
SCM 50 ZS-W	4.90	5.17	8.80 / A+++	4.60 / A++
SCM 60 ZS-W	4.55	4.86	8.80 / A+++	4.60 / A++
SCM 71 ZS-W	5.00	4.91	8.30 / A++	4.60 / A++
SCM 80 ZS-W	4.71	4.77	8.20 / A++	4.60 / A++
SCM 100 ZS-W	3.70	4.41	8.60 / A+++	4.50 / A+

* The values shown may vary depending on the combinations chosen. For further information, refer to the technical manual.

OPERATING RANGE

-15°C / +46°C

Cooling operation

OPERATING RANGE

-15°C / +24°C

Heating operation

HIGHLY COMPACT

High compactness for models 3.00 to 6.00 kW. Easy installation.

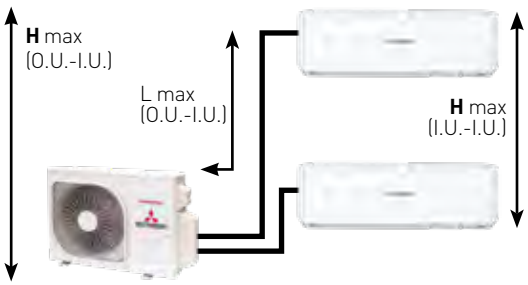
SCM 30-40-45 ZS-W

SCM 41-50-60 ZS-W

SCM 71-80 ZS-W

SCM 100 ZS-W

INSTALLATION FLEXIBILITY



SCM 30-40-45 ZS-W

L	TOT PIPING	= 30 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 15 m
H	MAX I.U.-I.U.	= 25 m

SCM 41-50-60 ZS-W

L	TOT PIPING	= 40 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 15 m
H	MAX I.U.-I.U.	= 25 m

SCM 71-80 ZS-W

L	TOT PIPING	= 70 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 20 m
H	MAX I.U.-I.U.	= 25 m

SCM 100 ZS-W

L	TOT PIPING	= 75 m
L	MAX O.U.-I.U.	= 25 m
H	MAX O.U.-I.U.	= 20 m
H	MAX I.U.-I.U.	= 25 m

OUTDOOR UNITS

VERSATILITY

3 kW

3 kW size and 2 indoor units: reduced consumption in new buildings with low heating demand

4 kW

4 kW size and 3 indoor units: reduced consumption in new buildings with low heating demand

MHI outdoor units are the efficient choice for new buildings; smaller sizes are more efficient and ensure savings for the customer.

TOP PERFORMANCE

	3 kW 2 connections	4 kW 2 connections	4 kW 3 connections	5 kW 3 connections	8 kW 4 connections	10 kW 5 connections
Nominal cooling capacity (range kW)	3 (1.4-5.0)	4 (1.5-5.9)	4 (1.4-6.3)	5 (1.7-7.1)	8 (1.8-9.2)	10 (1.7-11.5)
Nominal heating capacity (range kW)	4 (1.0-5.7)	4.5 (1.0-6.3)	4.5 (1.0-6.9)	6 (1.0-7.5)	9.3 (1.1-9.8)	10.5 (0.9-11.5)
SEER / cooling energy class	8.6 / A+++	9.1 / A+++	9.2 / A+++	8.8 / A+++	8.2 / A++	8.6 / A+++
SCOP / heating energy class	4.8 / A++	4.7 / A++	4.6 / A++	4.6 / A++	4.6 / A++	4.5 / A+
Maximum piping length (m)	30	30	40	40	70	75
Max piping length O.U.–I.U. (m)	25	25	25	25	25	25
Maximum height difference (m)	15	15	15	15	20	20
Sound pressure (dB)	45	46	44	44	50	50

The values shown are the result of an internal comparative analysis with the main competitors in the relevant market segment. Values updated in September 2025 based on data in the 2025 public catalogues.

Ask your sales representative for more information.

KEY

Top feature, the best data on the market

Silver feature, one of the best figures on the market

INDOOR UNITS

WALL

Integrated WiFi on KIREIA Plus, KIREIA and SRK-ZR; optional for all other models.

DUCTED LOW STATIC PRESSURE

Condensate drain pump included; condensate pump lift up to 600 mm.

DUCTED MEDIUM STATIC PRESSURE

MHI is the only brand on the market to offer a Multisplit ducted unit specifically designed for this useful external static pressure range (50-100 Pa).

CEILING

FDE: the only ceiling unit on the market equipped with a Human Sensor for energy-saving management (optional).

TOP 210 mm

The slimmest Multisplit ceiling unit on the market

CONSOLE

Dual air discharge for improved heat distribution in heating mode.

ULTRACOMPACT CASSETTE 60X60

TOP 14 kg

The lightest model on the market

FDTC: the only cassette unit with an optional anti-draft panel, featuring special individually adjustable louvers for a comfortable air jet. Air is distributed evenly in the room, avoiding stratification and direct air jets.

Fresh air intake, via a dedicated accessory, to introduce additional m^3/h through the cassette unit.

OUTDOOR UNITS

SCM 30-40-45 ZS-W

SCM 41-50-60 ZS-W

Model			SCM 30 ZS-W	SCM 40 ZS-W	SCM 45 ZS-W	SCM 41 ZS-W	SCM 50 ZS-W	SCM 60 ZS-W
Type			DC-Inverter Heat pump outdoor unit					
Connectable indoor units (min - max)		**nb.**	**2 - 2**	**2 - 2**	**2 - 2**	**2 - 3**	**2 - 3**	**2 - 3**
Rated connectable capacity I.U. (min - max)		kW	3.00 - 5.00	4.00 - 6.00	4.50 - 7.00	4.00 - 7.00	5.00 - 8.50	6.00 - 11.00
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	3.00 (1.40~5.00)	4.00 (1.50~5.90)	4.50 (1.50~6.40)	4.00 (1.40~6.30)	5.00 (1.70~7.10)	6.00 (1.70~7.50)
Rated power input (T=+35°C)	Cooling	kW	0.52 (0.32~1.60)	0.80 (0.34~2.10)	0.96 (0.34~2.30)	0.72 (0.32~1.65)	1.02 (0.43~2.15)	1.32 (0.43~2.28)
Rated energy efficiency coefficient	Cooling	EER[1]	5.77	5.00	4.69	5.56	4.90	4.55
Rated capacity (T=+7°C)	Heating	kW	4.00 (1.00~5.70)	4.50 (1.00~6.30)	5.30 (1.00~6.50)	4.50 (1.00~6.90)	6.00 (1.00~7.50)	6.80 (1.00~7.80)
Rated power input (T=+7°C)	Heating	kW	0.74 (0.25~1.49)	0.83 (0.25~1.48)	1.06 (0.25~1.48)	0.81 (0.25~1.58)	1.16 (0.32~2.50)	1.40 (0.32~2.80)
Rated energy performance coefficient	Heating	COP[1]	5.41	5.42	5.00	5.56	5.17	4.86
Seasonal data								
Design load (Pdesignc)	Cooling	kW	3.00	4.00	4.50	4.00	5.00	6.00
Seasonal energy efficiency index	Cooling	SEER[2]	8.60	9.10	9.10	9.20	8.80	8.80
Seasonal energy efficiency class	Cooling	626/2011[3]	A+++	A+++	A+++	A+++	A+++	A+++
Annual energy consumption	Cooling	kWh/y	123	154	174	153	199	239
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	3.30	4.10	4.10	3.40	4.70	4.70
Seasonal performance coefficient	Heating (average climate conditions)	SCOP[2]	4.80	4.70	4.70	4.60	4.60	4.60
Seasonal energy efficiency (ηs)	Heating (average climate conditions)	%	189.00	185.00	185.00	181.00	181.00	181.00
Seasonal energy efficiency class	Heating (average climate conditions)	626/2011[3]	A++	A++	A++	A++	A++	A++
Annual energy consumption	Heating (average climate conditions)	kWh/y	962	1222	1222	1034	1430	1430
Electrical data								
Power supply		Ph-V-Hz	1-220~240V-50Hz					
Power cable		Type	3 x 4 mm2	3 x 4 mm2	3 x 4 mm2	3 x 4 mm2	3 x 4 mm2	3 x 4 mm2
Connection wires between each I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	2.50	3.50	4.30	3.30	4.50	5.80
Nominal absorbed current	Heating	A	3.40	3.70	4.70	3.70	5.10	6.10
Max current		A	14.00	14.00	14.00	15.00	15.00	15.00
Refrigerant circuit data								
Refrigerant[4]		Type (GWP)	R32 (675)					
Refrigerant precharge		Kg	1.25	1.40	1.40	1.60	1.80	1.80
Tons of CO2 equivalent		t	0.844	0.945	0.945	1.080	1.215	1.215
Refrigerant pipings' diameter	Liquid	mm (inch.)	6.35 (1/4") x 2	6.35 (1/4") x 2	6.35 (1/4") x 2	6.35 (1/4") x 3	6.35 (1/4") x 3	6.35 (1/4") x 3
Refrigerant pipings' diameter	Gas	mm (inch.)	9.52 (3/8") x 2	9.52 (3/8") x 2	9.52 (3/8") x 2	9.52 (3/8") x 3	9.52 (3/8") x 3	9.52 (3/8") x 3
Total splitting distance		m	30	30	30	40	40	40
Max length of a single refrigeration line		m	25	25	25	25	25	25
Max splitting level difference I.U./O.U.		m	15	15	15	15	15	15
Max splitting level difference between I.U.		m	25	25	25	25	25	25
Max. splitting without additional charge		m	30	20	20	40	40	40
Additional charge		g/m	20	20	20	20	20	20
Product specifications								
Dimensions	LxDxH	mm	780(+90)x290x595	780(+90)x290x595	780(+90)x290x595	850(+65)x290x640	850(+65)x290x640	850(+65)x290x640
Net weight		Kg	35.5	40	40	42.5	48.5	48.5
Sound power level	Max	dB(A)	64	64	65	64	64	64
Sound pressure level	Max	dB(A)	51	51	52	52	52	52
Sound pressure level	Silent mode	dB(A)	45	46	46	44	44	44
Air flow volume	Max	m3/h	1950	1950	1950	2460	2460	2460
Operating range (outdoor temperature)	Cooling	°C	-15~46					
Operating range (outdoor temperature)	Heating	°C	-15~24					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825.
The values refer to the following combinations:**SCM 30 ZS-W** + 2 x SRK 15 ZS-WF / **SCM 40 ZS-W** + 2 x SRK 20 ZSX-W / **SCM 45 ZS-W** + SRK 20 ZSX-W + SRK 25 ZSX-W / **SCM 41 ZS-W** + 3 x SRK 15 ZS-WF / **SCM 50 ZS-W** + 3 x SRK 20 ZSX-W / **SCM 60 ZS-W** + 3 x SRK 20 ZSX-W.
3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

OUTDOOR UNITS

SCM 71-80 ZS-W

SCM 100 ZS-W

Model			SCM 71 ZS-W	SCM 80 ZS-W	SCM 100 ZS-W
Type			DC-Inverter Heat pump outdoor unit		
Connectable indoor units (min - max)		nb.	2 - 4	2 - 4	*2 - 5
Rated connectable capacity I.U. (min - max)		kW	7.00 - 12.50	8.00 - 13.50	9.00- 16.00
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.80~8.80)	8.00 (1.80~9.20)	10.00 (1.70~11.50)
Rated power input (T=+35°C)	Cooling	kW	1.42 (0.48~2.75)	1.70 (0.48~2.83)	2.70 (0.48~3.65)
Rated energy efficiency coefficient	Cooling	EER[1]	5.00	4.71	3.70
Rated capacity (T=+7°C)	Heating	kW	8.60 (1.10~9.40)	9.30 (1.10~9.80)	10.50 (0.90~11.50)
Rated power input (T=+7°C)	Heating	kW	1.75 (0.35~3.00)	1.95 (0.35~3.12)	2.38 (0.37~2.90)
Rated energy performance coefficient	Heating	COP[1]	4.91	4.77	4.41
Seasonal data					
Design load (Pdesignc)	Cooling	kW	7.10	8.00	10.00
Seasonal energy efficiency index	Cooling	SEER[2]	8.30	8.20	8.60
Seasonal energy efficiency class	Cooling	626/2011[3]	A++	A++	A+++
Annual energy consumption	Cooling	kWh/y	300	342	407
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	6.70	6.70	6.80
Seasonal performance coefficient	Heating (average climate conditions)	SCOP[2]	4.60	4.60	4.50
Seasonal energy efficiency (ηs)	Heating (average climate conditions)	%	181.00	181.00	177.00
Seasonal energy efficiency class	Heating (average climate conditions)	626/2011[3]	A++	A++	A+
Annual energy consumption	Heating (average climate conditions)	kWh/y	2038	2038	2116
Electrical data					
Power supply		Ph-V-Hz	1-220~240V-50Hz		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²
Connection wires between each I.U. and O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	6.20	7.50	11.90
Nominal absorbed current	Heating	A	7.80	8.60	10.50
Max current		A	20.00	20.00	21.00
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Refrigerant precharge		Kg	2.55	2.55	2.98
Tons of CO2 equivalent		t	1.721	1.721	2.012
Refrigerant pipings' diameter	Liquid	mm (inch.)	6.35 (1/4") x 4	6.35 (1/4") x 4	6.35 (1/4") x 5
Refrigerant pipings' diameter	Gas	mm (inch.)	9.52 (3/8") x 4	9.52 (3/8") x 4	9.52 (3/8") x 5
Total splitting distance		m	70	70	75
Max length of a single refrigeration line		m	25	25	25
Max splitting level difference I.U./O.U.		m	20	20	20
Max splitting level difference between I.U.		m	25	25	25
Max. splitting without additional charge		m	30	30	40
Additional charge		g/m	20	20	20
Product specifications					
Dimensions	LxDxH	mm	880(+73)x340x750	880(+73)x340x750	970(+73)x370x945
Net weight		Kg	61	61	73
Sound power level	Max	dB(A)	67	67	72
Sound pressure level	Max	dB(A)	54	54	59
Sound pressure level	Silent mode	dB(A)	50	50	50
Air flow volume	Max	m³/h	3360	3360	4500
Operating range (outdoor temperature)	Cooling	°C	-15~46		
Operating range (outdoor temperature)	Heating	°C	-15~24		

* Combinations with 2 indoor units have many limitations. Always check the proposed configuration with our Technical Office.

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825.
The values refer to the following combinations: **SCM 71 ZS-W** + 4 x SRK 20 ZSX-W / **SCM 80 ZS-W** + 4 x SRK 20 ZSX-W / **SCM 100 ZS-W** + 5 x SRK 20 ZSX-W.
3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

INDOOR UNITS

KIREIA Plus WALL

SRK 20-25-35-50-60 ZSX-WF(T)

INCLUDED

Remote control included

Model			SRK 20 ZSX-WF(T)	SRK 25 ZSX-WF(T)	SRK 35 ZSX-WF(T)	SRK 50 ZSX-WF(T)	SRK 60 ZSX-WF(T)
Type			Wall type indoor unit				
Control			Remote control				
Rated capacity	Cooling	kW	2.00	2.50	3.50	5.00	6.00
	Heating	kW	3.00	3.40	4.50	5.80	6.80
Electrical data							
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz				
Wiring cables I.U./O.U.		nb.	4	4	4	4	4
Refrigerant circuit data							
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Product specifications							
Dimensions	LxDxH	mm	920x220x305	920x220x305	920x220x305	920x220x305	920x220x305
Net weight		Kg	13	13	13	13	13
Sound power level (Hi)	Cooling	dB(A)	53	55	58	59	62
	Heating		55	56	58	62	63
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	38/31/24/19	39/33/25/19	43/35/26/19	44/39/31/22	48/41/33/22
	Heating		38/33/25/19	40/34/27/19	42/35/28/19	47/41/33/23	47/42/34/23
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m^3/h	678/546/360/300	732/600/402/300	786/648/438/300	858/744/468/324	978/804/534/324
	Heating		732/618/432/324	768/660/468/324	834/708/516/324	1038/858/588/372	1068/822/654/372
Optional parts							
Wi-Fi module			Included				
Interface for home automation connection and wired control[1]			SC-BIKN2-E				

1. Available home automation protocols: KNX, Modbus, BACnet. The use of the interface card SC-BIKN2-E forbids some indoor unit functions. Keep in touch with your contact person for further information.

KIREIA WALL

SRK 15-20-25-35-50 ZS-WF(T)

INCLUDED

Remote control included

Model			SRK 15 ZS-WF(T)	SRK 20 ZS-WF(T)	SRK 25 ZS-WF(T)	SRK 35 ZS-WF(T)	SRK 50 ZS-WF(T)
Type			Wall type indoor unit				
Control			Remote control				
Rated capacity	Cooling	kW	1.50	2.00	2.50	3.50	5.00
	Heating	kW	2.00	3.00	3.40	4.50	5.80
Electrical data							
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz				
Wiring cables I.U./O.U.		nb.	4	4	4	4	4
Refrigerant circuit data							
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")
Product specifications							
Dimensions	LxDxH	mm	870x230x290	870x230x290	870x230x290	870x230x290	870x230x290
Net weight		Kg	9.5	9.5	9.5	9.5	10
Sound power level (Hi)	Cooling	dB(A)	48	48	50	54	59
	Heating		50	50	53	56	60
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	34/25/22/19	34/25/22/19	36/28/23/19	40/30/26/19	46/36/29/22
	Heating		36/29/23/19	36/29/23/19	39/30/24/19	41/36/25/19	46/37/31/24
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m^3/h	558/420/354/300	558/420/354/300	594/480/354/300	678/522/420/300	726/594/444/354
	Heating		600/510/390/354	600/510/390/354	678/522/402/354	738/660/420/336	834/672/546/444
Optional parts							
Wi-Fi module			Included				
Interface for home automation connection and wired control[1]			SC-BIKN2-E				

1. Available home automation protocols: KNX, Modbus, BACnet. The use of the interface card SC-BIKN2-E forbids some indoor unit functions. Keep in touch with your contact person for further information.

INDOOR UNITS

WALL

SRK 71-80 ZR-WF

INCLUDED

Remote control included

Model			SRK 71 ZR-WF	SRK 80 ZR-WF
Type			Wall type indoor unit	
Control			Remote control	
Rated capacity	Cooling	kW	7.10	8.00
	Heating	kW	8.00	9.00
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz	
Wiring cables I.U./O.U.		nb.	4	4
Refrigerant circuit data				
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 15.88(5/8")	6.35(1/4") - 15.88(5/8")
Product specifications				
Dimensions	LxDxH	mm	1197x262x339	1197x262x339
Net weight		Kg	15.5	16.5
Sound power level (Hi)	Cooling	dB(A)	57	60
	Heating		60	62
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	44/41/37/25	47/44/39/26
	Heating		46/39/35/28	47/41/36/29
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	1230/1116/972/624	1410/1212/1050/624
	Heating		1500/1188/1038/798	1590/1278/1104/810
Optional parts				
Wi-Fi module			Included	
Interface for home automation connection and wired control[1]			SC-BIKN2-E	

1. Available home automation protocols: KNX, Modbus, BACnet. The use of the interface card SC-BIKN2-E forbids some indoor unit functions. Keep in touch with your contact person for further information.

WALL

SKM 15-20-25-35 ZSP-W

OPTIONAL

Remote control included

Model			SKM 15 ZSP-W	SKM 20 ZSP-W	SKM 25 ZSP-W	SKM 35 ZSP-W
Type			Wall type indoor unit			
Control			Remote control			
Rated capacity	Cooling	kW	1.50	2.00	2.50	3.50
	Heating	kW	2.00	3.00	3.40	4.50
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz			
Wiring cables I.U./O.U.		nb.	4	4	4	4
Refrigerant circuit data						
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")
Product specifications						
Dimensions	LxDxH	mm	783x210x267	783x210x267	783x210x267	783x210x267
Net weight		Kg	7.5	7.5	7.5	7.5
Sound power level (Hi)	Cooling	dB(A)	57	57	57	58
	Heating		56	56	56	58
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	42/35/22	42/35/22	43/36/23	44/37/25
	Heating		41/36/26	41/36/26	41/36/27	42/37/30
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	510/420/300	510/420/300	510/420/300	540/450/300
	Heating		480/420/330	480/420/330	480/420/330	510/420/360
Optional parts						
Wi-Fi module			INWFIUNI001I000			
Interface for home automation connection and wired control			Not available for this product			

INDOOR UNITS

DUCTED LOW STATIC PRESSURE

SRR 25-35-50-60 ZS-W

Condensate drain pump included; condensate pump lift up to 600 mm.

OPTIONAL

Remote control included

Model			SRR 25 ZS-W	SRR 35 ZS-W	SRR 50 ZS-W	SRR 60 ZS-W
Type			Ducted type indoor unit			
Control			Remote control			
Rated capacity	Cooling	kW	2.50	3.50	5.00	6.00
	Heating	kW	3.40	4.50	5.80	6.80
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz			
Wiring cables I.U./O.U.		nb.	4	4	4	4
Refrigerant circuit data						
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Product specifications						
Dimensions	LxDxH	mm	750x500x200	750x500x200	950x500x200	950x500x200
Net weight		Kg	20.5	20.5	24	24
Sound power level (Hi)	Cooling	dB(A)	56	57	59	60
	Heating		59	60	61	63
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	37/33/30/24	38/34/31/25	41/37/34/29	44/38/35/30
	Heating		40/37/34/28	42/38/35/29	43/39/37/32	45/41/38/33
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	570/480/390/270	600/510/420/300	810/660/600/450	870/690/630/480
	Heating		600/540/480/360	630/570/510/390	840/750/660/510	900/780/690/540
Fan static pressure	Std/Max	Pa	5/35	5/35	5/50	5/50
Optional parts						
Wi-Fi module[1]			WF-RAC			
Interface for home automation connection and wired control[2]			SC-BIKN2-E			
Kit for recovery from bottom			UT-BAT1EF		UT-BAT2EF	

1. Using the Wi-Fi module excludes the possibility of connecting any other optional accessory.
2. Home automation protocols available: KNX, Modbus, BACnet.

CONSOLE

SRF 25-35 ZS-W
SRF 50 ZSX-W

Dual air discharge for improved heat distribution in heating mode.

OPTIONAL

Remote control included

Model			SRF 25 ZS-W	SRF 35 ZS-W	SRF 50 ZSX-W
Type			Floor type indoor unit		
Control			Remote control		
Rated capacity	Cooling	kW	2.50	3.50	5.00
	Heating	kW	3.40	4.50	5.80
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz		
Wiring cables I.U./O.U.		nb.	4	4	4
Refrigerant circuit data					
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")
Product specifications					
Dimensions	LxDxH	mm	860x238x600	860x238x600	860x238x600
Net weight		Kg	18	19	19
Sound power level (Hi)	Cooling	dB(A)	50	51	58
	Heating		51	52	58
Sound pressure level (Hi/Me/Lo/ULo)	Cooling	dB(A)	38/32/29/25	40/35/33/29	46/38/33/28
	Heating		39/35/33/39	41/36/35/33	46/41/38/32
Air flow volume (Hi/Me/Lo/ULo)	Cooling	m³/h	540/456/402/348	552/468/438/384	690/576/444/396
	Heating		630/492/462/396	642/498/486/444	720/600/564/456
Optional parts					
Wi-Fi module[1]			WF-RAC		
Interface for home automation connection and wired control[2]			SC-BIKN2-E		

1. Using the Wi-Fi module excludes the possibility of connecting any other optional accessory.
2. Home automation protocols available: KNX, Modbus, BACnet.

INDOOR UNITS

DUCTED MEDIUM STATIC PRESSURE

FDUM 50 VH

OPTIONAL

MHI is the only brand on the market to offer a Multisplit ducted unit designed for this useful external static pressure range (50-100 Pa).

Compatible with AIRZONE systems

Model			FDUM 50 VH
Type			Ducted type indoor unit
Rated capacity	Cooling	kW	5.00
	Heating	kW	5.80
Electrical data			
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz
Wiring cables I.U./O.U.		nb.	4
Refrigerant circuit data			
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 12.74(1/2")
Product specifications			
Dimensions	LxDxH	mm	750x635x280
Net weight		Kg	29
Sound power level	Max	dB(A)	60
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	37/32/29/26
Air flow volume	P-Hi/Hi/Me/Lo	m³/h	780/600/540/480
Fan static pressure	Std/Max	Pa	35/100
Accessories			
Wired control			RC-E5 / RC-EX3A / RC-EXZ3A / RCH-E3
IR remote control (KIT)			RCN-KIT4-E2
Optional parts			
Wi-Fi module			INWFIMHI001R100
Human sensor (KIT)			LB-KIT2
SUPERLINK interface II			SC-ADNA-E
Recovery filter (KIT)			UM-FL1EF

CEILING

FDE 50 VH

TOP 210 mm

The slimmest Multisplit ceiling unit on the market

OPTIONAL

FDE: the only ceiling unit on the market equipped with a Human Sensor for energy-saving management based on user presence/absence (optional).

Model			FDE 50 VH
Type			Ceiling type indoor unit
Rated capacity	Cooling	kW	5.00
	Heating	kW	5.80
Electrical data			
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz
Wiring cables I.U./O.U.		nb.	4
Refrigerant circuit data			
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 12.74(1/2")
Product specifications			
Dimensions	LxDxH	mm	1070x690x210
Net weight		Kg	28
Sound power level	Max	dB(A)	60
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	46/38/36/31
Air flow volume	P-Hi/Hi/Me/Lo	m³/h	780/600/540/420
Accessories			
Wired control			RC-E5 / RC-EX3A / RCH-E3
IR remote control (KIT)			RCN-E-E3
Optional parts			
Wi-Fi module			INWFIMHI001R100
Human sensor (KIT)			LB-E
SUPERLINK interface II			SC-ADNA-E

INDOOR UNITS

ULTRACOMPACT CASSETTE 60X60

FDTC 25-35 VH1/FDTC 50~60 VH
Pannello standard honeycomb
TC-PSA-5AW-E

FDTC 25-35 VH1/FDTC 50~60 VH
Anti-draft panel honeycomb
TC-PSAE-5AW-E

FDTC 25-35 VH1/FDTC 50~60 VH
Pannello standard linear
TC-PSAG-5AW-E

FDTC 25-35 VH1/FDTC 50~60 VH
Anti-draft panel linear
TC-PSAGE-5AW-E

Model			FDTC 25 VH1	FDTC 35 VH1	FDTC 50 VH	FDTC 60 VH
Type			Cassette type indoor unit			
Rated capacity	Cooling	kW	2.50	3.50	5.00	6.00
	Heating	kW	3.40	4.50	5.80	6.80
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz			
Wiring cables I.U./O.U.		nb.	4	4	4	4
Refrigerant circuit data						
Diameter of refrigerant pipings liquid/gas		mm (inch.)	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 9.52(3/8")	6.35(1/4") - 12.74(1/2")	6.35(1/4") - 12.74(1/2")
Product specifications						
Dimensions	LxDxH	mm	570x570x248	570x570x248	570x570x248	570x570x248
Net weight		Kg	13.5	13.5	14	14
Sound power level (Hi)	Cooling	dB(A)	51	52	59	60
	Heating		52	53	59	60
Sound pressure level (P-Hi/Hi/Me/Lo)	Cooling	dB(A)	38/34/30/27	39/36/32/29	44/40/35/27	46/42/38/31
	Heating		39/36/32/28	41/38/34/30	44/40/35/27	46/42/38/31
Air flow volume (P-Hi/Hi/Me/Lo)	Cooling	m^3/h	510/450/420/360	540/480/450/390	780/660/540/420	840/720/600/480
	Heating		570/510/450/390	600/540/480/420		
Accessories						
Decorative panel			TC-PSA-5AW-E (honeycomb) / TC-PSAG-5AW-E (linear)			
Panel size	LxDxH	mm	620x620x10	620x620x10	620x620x10	620x620x10
Net weight		Kg	2.5	2.5	2.5	2.5
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)			
IR remote control (corner KIT)			RCN-TC-5AW-E3			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (corner KIT)			LB-TC-5W-E			
SUPERLINK interface II			SC-ADNA-E			
Anti-draft panel			TC-PSAE-5AW-E (honeycomb) / TC-PSAGE-5AW-E (linear)			

TOP 14 kg

The lightest model on the market

COMMERCIAL MONO & MULTI **R32**

R32

COMMERCIAL MONO & MULTI

68 R32 COMMERCIAL CHARACTERISTICS

72 LINE-UP R32

COMMERCIAL MONOSPLIT

74 HYPER R32 series

82 SUPER R32 series

90 SMART R32 series

COMMERCIAL MULTISPLIT

97 HYPER series R32 combinations

100 SUPER series R32 combinations

104 **ENTHALPY HEAT RECOVERY UNIT**

106 **AIR HANDLING UNIT INTERFACE**

MHI commercial range air conditioners have been designed for ample spaces like offices and companies and for small and medium applications.

MHI offers all possible useful solutions to combine operating costs, flexibility and maintenance, depending on the area and characteristics of the work environment.

MITSUBISHI HEAVY INDUSTRIES

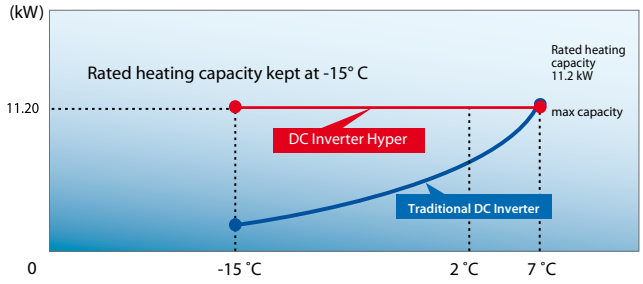
HIGH PERFORMANCE WITH R32

MHI introduces R32 refrigerant gas on its entire commercial line. The new, more ecological technology guarantees energy savings for all capacities.

Reliable, innovative, environmentally friendly: commercial line air conditioners have all the characteristics to meet the most varied installation requirements.

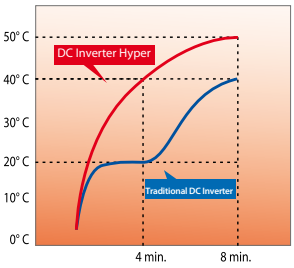
FDC100 VSX-W (4HP) - 3-PHASE

Rated heating capacity kept constant down to -15° C.



SUPER HEAT: START-UP AT HIGH TEMP.

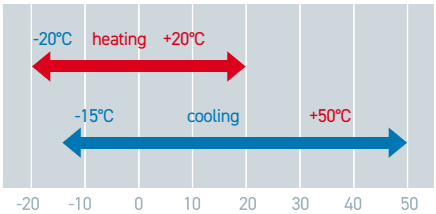
At start-up, the unit reaches the temperature of 40° C in only 4 minutes - in an operating condition with indoor and outdoor temperature of 2° C - and can reach 50° C in the following 8 minutes.



Refer to technical specifications concerning the following: application conditions, operating range and heating/cooling capacity.

OPERATING RANGE

HYPER VSX-W



The new advanced technology, installed on R32 units, has extended the range of cooling operation compared to R410A units, making it possible for the systems to be installed in locations with more extreme climatic conditions.

LESS CORROSION THANKS TO BLUE FIN

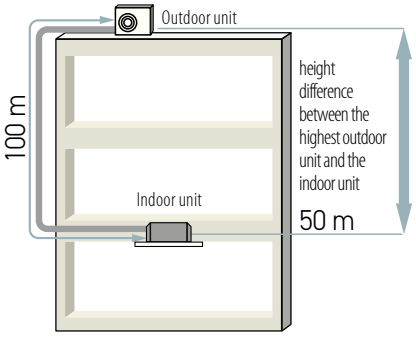
The particular coating of the heat exchanger louvres guarantees perfect resistance to corrosion and deterioration caused by atmospheric agents.

SPLITTING DISTANCE OF 100 M, HIGH INSTALLATION FLEXIBILITY

The maximum length of the refrigerant pipes can be up to 100 m. The maximum height difference between indoor units is 15 m. Each unit is also equipped with a refrigerant pre-load sufficient for 30 m splitting distance.

The versatility offered by the numerous installation solutions also makes it possible to centralise the systems via the Superlink network, applying the SC-ADNA-E adapter to each indoor unit to be controlled.

4-5-6HP VSX models (3-Phase)		
Series	Piping length	Height difference
Hyper 4~6	100 m	50 m
Super 4~6	50 m	50 m
Smart 3~5	30 m	20 m



4~6HP

Total length of piping
100 m
Height difference
50 m

DC TWIN ROTARY COMPRESSOR

Reduction in size and increase in energy performance (4~6HP models). The application of DC Twin Rotary compressor allows units to reach 120rps speed. Improved performance and vibration reduction are guaranteed by the use of the Inverter Vector control.

MITSUBISHI HEAVY INDUSTRIES

ADVANCED TECHNOLOGY WITH THE HUMAN SENSOR

The most advanced solution for Controlsng room temperature and comfort. The HUMAN SENSOR detects the presence of people in the room and the type of activity occurring; the temperature is adjusted accordingly automatically, with beneficial effects on consumption and well-being.

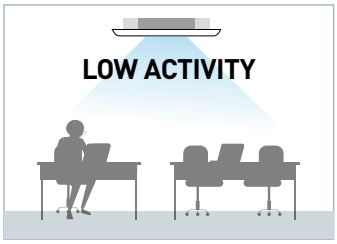
ENERGY SAVINGS THROUGH MOTION DETECTION IN THE ROOM

The HUMAN SENSOR detects the presence/absence and/or movement of persons in the room to improve comfort and performance, thanks to the unit's energy saving functions.

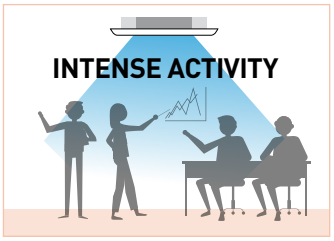
3 ENERGY SAVING CONTROL MODES

1. POWER CONTROL

The new motion sensor detects human activity in the room Energy saving control is obtained by modifying the set temperature based on the amount and type of detected activity.



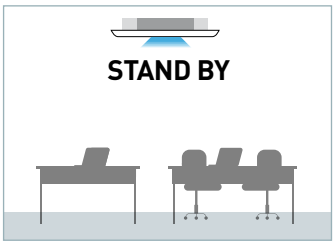
Power control increases energy saving.



Power control increases comfort.

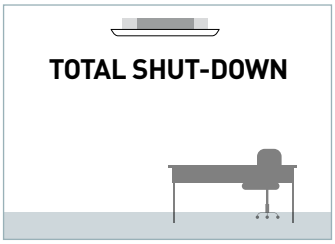
2. AUTO-OFF: STAND BY

The unit stops running if no activity is detected for 1 hour. It re-starts automatically when activity is detected.



3. AUTO-OFF TOTAL SHUT-DOWN

The unit shuts down automatically if no activity is detected for 12 hours.



Operation shuts off completely.

AVAILABLE AS AN OPTIONAL FOR THE FOLLOWING INDOOR UNIT MODELS:

FDT FDTC FDUM FDU FDE FDF

MITSUBISHI HEAVY INDUSTRIES

LINEUP

COMMERCIAL MONOSPLIT R32

Outdoor units	HYPER				SUPER						SMART			
	 FDC VNX-W			 FDC VSX-W			 FDC VNA-W/VSA-W			 FDC VSA-W			   FDC VNP-W		
kW	7.10	10.00	12.50	14.00	10.00	12.50	14.00	20.00	25.00	28.00	7.10	9.00	10.00	12.50
FDT VH 	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓
FDUM VH 	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓
FDU VH 	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FDE VH 	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓
SRK ZR-WF	✓	✓			✓						✓		✓	
FDF VH 	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	

Indoor units

COMMERCIAL MULTISPLIT R32

MULTISPLIT COMBINATIONS TWIN/TRIPLE/DOUBLE TWIN

VALID COMBINATIONS FOR HYPER AND SUPER SERIES

HYPER

	TWIN	TRIPLE
FDC 71 VNX-W	40+40	-
FDC 100 VSX-W	50+50	-
FDC 125 VSX-W	60+60	-
FDC 140 VSX-W	71+71	50+50+50

SUPER

	TWIN	TRIPLE	DOUBLE TWIN
FDC 100 VNA-W/FDC 100 VSA-W	50+50	-	-
FDC 125 VNA-W/FDC 125 VSA-W	60+60	-	-
FDC 140 VNA-W/FDC 140 VSA-W	71+71	50+50+50	-
FDC 200 VSA-W	100+100	71+71+71	50+50+50+50
FDC 250 VSA-W	125+125	-	60+60+60+60
FDC 280 VSA-W	140+140	-	71+71+71+71


FDTC


FDUM

SRK ZSX-WF

SRK ZR-WF


FDF

Note: Combinations other than those indicated on pages 97-103 **are prohibited.**

SPECIAL MULTISPLIT COMBINATIONS V MULTI FOR FDT AND FDE MODELS

VALID COMBINATIONS FOR HYPER AND SUPER SERIES

HYPER

	TWIN	TRIPLE
FDC 71 VNX-W	40+40	-
FDC 100 VSX-W	50+50	-
FDC 125 VSX-W	60+60	-
	50+71	-
FDC 140 VSX-W	71+71	50+50+50

SUPER

	TWIN	TRIPLE	DOUBLE TWIN
FDC 100 VNA-W/FDC 100 VSA-W	50+50	-	-
FDC 125 VNA-W/FDC 125 VSA-W	60+60	-	-
	50+71	-	-
FDC 140 VNA-W/FDC 140 VSA-W	71+71	50+50+50	-
FDC 200 VSA-W	100+100	71+71+71	50+50+50+50
	71+125		
FDC 250 VSA-W	125+125	60+60+125	60+60+60+60
		71+71+100	
FDC 280 VSA-W	140+140	71+71+140	71+71+71+71


FDT


FDE

Note: Combinations other than those indicated on pages 97-103 **are prohibited.**

HYPER SERIES

R32

COMMERCIAL MONO & MULTI

Operation in heating mode with outside temperature limit of: -20° C

If the outdoor temperature decreases, the supplied power keeps constant

- **4 capacities**
  1-Phase 3HP= 7.10 kW
  3-Phase 4~6HP=10.00~14.00 kW
- Minimum outdoor operating temperature
- Super Heat at start-up
- The supplied power is kept also as the outdoor temperature decreases
- **100 m**
  Splitting distance
- Application of Twin Rotary compressors: reduction in size and increase in performance

FDC 71 VNX-W (3HP)

FDC100 VSX-W (4HP)
FDC125 VSX-W (5HP)
FDC140 VSX-W (6HP)

VNX-W = 1-PHASE
VSX-W = 3-PHASE

MONOSPLIT HYPER

CASSETTE 84X84 R32

OPTIONAL

FDT 71-100-125-140 VH
Standard white panel
T-PSA-5BW-E

FDT 71-100-125-140 VH
Anti-draft white panel
T-PSAE-5BW-E

FDT 71-100-125-140 VH
Standard black panel
T-PSA-5BB-E

FDT 71-100-125-140 VH
Black anti-draft panel
T-PSAE-5BB-E

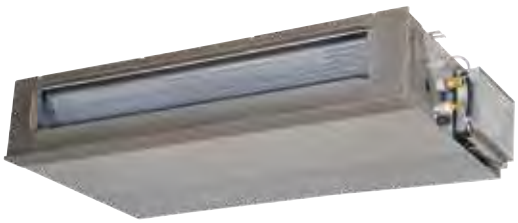
Indoor unit model			FDT 71 VH	FDT 100 VH	FDT 125 VH	FDT 140 VH
Outdoor unit model			FDC 71 VNX-W	FDC 100 VSX-W	FDC 125 VSX-W	FDC 140 VSX-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (3.20~8.00)	10.00 (3.50~11.20)	12.50 (3.50~14.00)	14.00 (3.50~16.00)
Rated power input (T=+35°C)		kW	1.69	2.28	3.21	3.87
Rated energy efficiency coefficient		EER[1]	4.20	4.38	3.89	3.62
Rated capacity (T=+7°C)	Heating	kW	8.00 (3.60~9.00)	11.20 (2.70~16.00)	14.00 (2.70~18.00)	16.00 (2.70~20.00)
Rated power input (T=+7°C)		kW	1.75	2.48	3.43	4.20
Rated energy performance coefficient		COP[1]	4.58	4.52	4.08	3.81
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	10.00	12.50	14.00
Seasonal energy efficiency index		SEER[2]	7.60	8.00	7.64	7.20
Seasonal energy efficiency class		626/2011[3]	A++	A++	-	-
Annual energy consumption		kWh/y	327	438	-	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.80	11.20	14.00	15.50
Seasonal performance coefficient		SCOP[2]	4.61	4.44	4.26	4.14
Seasonal energy efficiency (ηs)		%	181.40	174.60	167.40	162.60
Seasonal energy efficiency class		626/2011[3]	A++	A+	-	-
Annual energy consumption		kWh/y	1762	3534	-	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz		
Power cable		Type	3 x 4 mm^2	5 x 4 mm^2	5 x 4 mm^2	5 x 4 mm^2
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	7.50	3.90	5.20	6.20
	Heating	A	7.80	4.20	5.60	6.70
Maximum current		A	19.10	14.00	14.00	14.00
Max power input		kW	4.11	8.90	8.90	8.90
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	2.75	4	4	4
Tons of CO2 equivalent		t	1.856	2.700	2.700	2.700
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance	Min/Max	m	3/50	3/100	3/100	3/100
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	30/15	50/15	50/15	50/15
Splitting distance without additional charge		m	30	30	30	30
Additional charge		g/m	54	54	54	54
Indoor unit specifications						
Dimensions	LxDxH	mm	840x840x236	840x840x298	840x840x298	840x840x298
Net weight		Kg	21	25	25	25
Sound power level	Max	dB(A)	60	62	64	64
Sound pressure level (P-Hi/Hi/Mi/Lo)	Cooling	dB(A)	46/34/31/26	47/39/36/30	48/41/39/31	48/42/39/32
	Heating			47/39/36/29	48/41/38/31	48/41/38/31
Volume of air treated	P-Hi/Hi/Me/Lo	m^3/h	1680/1080/900/720	2220/1560/1380/1020	2280/1680/1500/1080	2280/1740/1560/1140
Outdoor unit specifications						
Dimensions	LxDxH	mm	880(+88)x340x750	970x370x1300	970x370x1300	970x370x1300
Net weight		Kg	60	99	99	99
Sound power level	Max	dB(A)	66	67	70	71
Sound pressure level	Max	dB(A)	51	53	54	54
Volume of air treated	Max	m^3/h	3600	6000	6000	6000
Operating range (outdoor temperature)	Cooling	°C	-15~+50			
	Heating	°C	-20~+20			
Accessories						
Decorative panel			T-PSA-5BW-E (white) / T-PSA-5BB-E (black)			
Panel size	LxDxH	mm	950x950x35	950x950x35	950x950x35	950x950x35
Net weight		Kg	5	5	5	5
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)			
IR remote control (corner KIT)			RCN-T-5BW-E2 (white) / RCN-T-5BB-E2 (black)			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (corner KIT)			LB-T-5BW-E (white) / LB-T-5BB-E (black)			
SUPERLINK II interface			SC-ADNA-E			
Anti-draft panel			T-PSAE-5BW-E (white) / T-PSAE-5BB-E (black)			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N. 2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT HYPER

DUCTED MEDIUM STATIC PRESSURE ADJUSTABLE R32



FDUM 71-100-125-140 VH

OPTIONAL

- **max 100**
  Fan static pressure
- Unit with bottom or rear air intake (filter not included)
- **280 mm**
  Height
- **100 m**
  Splitting distance
- ESP function: automatic maintenance of the air flow as flow resistance varies
- Filter not included
- Compatible with AIRZONE systems

Indoor unit model			FDUM 71 VH	FDUM 100 VH	FDUM 125 VH	FDUM 140 VH
Outdoor unit model			FDC 71 VNX-W	FDC 100 VSX-W	FDC 125 VSX-W	FDC 140 VSX-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (3.20~8.00)	10.00 (3.50~11.20)	12.50 (3.50~14.00)	14.00 (3.50~16.00)
Rated power input (T=+35°C)		kW	1.77	2.59	3.49	4.22
Rated energy efficiency coefficient		EER[1]	4.01	3.86	3.58	3.32
Rated capacity (T=+7°C)	Heating	kW	8.00 (3.60~9.00)	11.20 (2.70~16.00)	14.00 (2.70~18.00)	16.00 (2.70~20.00)
Rated power input (T=+7°C)		kW	1.78	2.63	3.61	4.22
Rated energy performance coefficient		COP[1]	4.49	4.26	3.88	3.79
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	10.00	12.50	14.00
Seasonal energy efficiency index		SEER[2]	6.89	6.29	6.10	5.79
Seasonal energy efficiency class		626/2011[3]	A++	A++	-	-
Annual energy consumption		kWh/y	361	557	-	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	6.00	11.20	14.00	15.50
Seasonal performance coefficient		SCOP[2]	4.45	4.13	3.92	3.88
Seasonal energy efficiency (ηs)		%	175.00	162.20	153.80	152.20
Seasonal energy efficiency class		626/2011[3]	A+	A+	-	-
Annual energy consumption		kWh/y	1889	3800	-	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz		
Power cable		Type	3 x 4 mm²	5 x 4 mm²	5 x 4 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	7.90	4.40	5.60	6.70
	Heating	A	7.90	4.40	5.90	6.80
Maximum current		A	20.00	17.00	16.00	17.00
Max power input		kW	4.11	8.90	8.90	8.90
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	2.75	4	4	4
Tons of CO2 equivalent		t	1.856	2.700	2.700	2.700
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance	Min/Max	m	3/50	3/100	3/100	3/100
Splitting level difference I.U./O.U.	O.U: above/O.U. below	m	30/15	50/15	50/15	50/15
Splitting distance without additional charge		m	30	30	30	30
Additional charge		g/m	54	54	54	54
Indoor unit specifications						
Dimensions	LxDxH	mm	950x635x280	1370x740x280	1370x740x280	1370x740x280
Net weight		Kg	34	54	54	54
Sound power level	Max	dB(A)	65	65	67	70
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	38/33/29/25	44/38/36/30	45/40/34/29	47/40/35/30
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	1440/1140/900/600	2160/1680/1500/1140	2340/1920/1560/1200	2880/2100/1680/1320
Fan static pressure	Std/Max	Pa	35/100	60/100	60/100	60/100
Outdoor unit specifications						
Dimensions	LxDxH	mm	880(+88)x340x750	970x370x1300	970x370x1300	970x370x1300
Net weight		Kg	60	99	99	99
Sound power level	Max	dB(A)	66	67	70	71
Sound pressure level	Max	dB(A)	51	53	54	54
Volume of air treated	Max	m³/h	3600	6000	6000	6000
Operating range (outdoor temperature)	Cooling	°C	-15~+50			
	Heating	°C	-20~+20			
Accessories						
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EXZ3A (touch + zone control) / RCH-E3 (simplified)			
IR remote control (KIT)			RCN-KIT4-E2			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (KIT)			LB-KIT2			
SUPERLINK II interface			SC-ADNA-E			
Recovery filter (KIT)			UM-FL2EF	UM-FL3EF		

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT HYPER

DUCTED HIGH STATIC PRESSURE ADJUSTABLE R32

OPTIONAL

- **max 200** Fan static pressure
- Unit with bottom or rear air intake (filter not included)
- **280 mm** Height
- **100 m** Splitting distance
- ESP function: automatic maintenance of the air flow as flow resistance varies
- Filter not included
- Compatibile with AIRZONE systems

FDU 71-100-125-140 VH

Indoor unit model			FDU 71 VH	FDU 100 VH	FDU 125 VH	FDU 140 VH
Outdoor unit model			FDC 71 VNX-W	FDC 100 VSX-W	FDC 125 VSX-W	FDC 140 VSX-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (3.20~8.00)	10.00 (3.50~11.20)	12.50 (3.50~14.00)	14.00 (3.50~16.00)
Rated power input (T=+35°C)		kW	1.77	2.59	3.49	4.22
Rated energy efficiency coefficient		EER[1]	4.01	3.86	3.58	3.32
Rated capacity (T=+7°C)	Heating	kW	8.00 (3.60~9.00)	11.20 (2.70~16.00)	14.00 (2.70~18.00)	16.00 (2.70~20.00)
Rated power input (T=+7°C)		kW	1.78	2.63	3.61	4.22
Rated energy performance coefficient		COP[1]	4.49	4.26	3.88	3.79
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	10.00	12.50	14.00
Seasonal energy efficiency index		SEER[2]	6.89	6.29	6.10	5.79
Seasonal energy efficiency class		626/2011[3]	A++	A++	-	-
Annual energy consumption		kWh/y	361	557	-	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	6.00	11.20	14.00	15.50
Seasonal performance coefficient		SCOP[2]	4.47	4.13	3.92	3.88
Seasonal energy efficiency (ηs)		%	175.80	162.20	153.80	152.20
Seasonal energy efficiency class		626/2011[3]	A+	A+	-	-
Annual energy consumption		kWh/y	1878	3800	-	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz		
Power cable		Type	3 x 4 mm²	5 x 4 mm²	5 x 4 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	7.90	4.40	5.60	6.70
	Heating	A	7.90	4.40	5.90	6.80
Maximum current		A	20.00	15.00	16.00	17.00
Max power input		kW	4.11	8.90	8.90	8.90
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	2.75	4	4	4
Tons of CO2 equivalent		t	1.856	2.700	2.700	2.700
Diameter of refrigerant pipings liquid/gas		mm (inches)	9.52 (3/8") - 15.88(5/8")	9.52 (3/8") - 15.88(5/8")	9.52 (3/8") - 15.88(5/8")	9.52 (3/8") - 15.88(5/8")
Splitting distance	Min/Max	m	3/50	3/100	3/100	3/100
Splitting level difference I.U./O.U.	O.U: above/O.U. below	m	30/15	50/15	50/15	50/15
Splitting distance without additional charge		m	30	30	30	30
Additional charge		g/m	54	54	54	54
Indoor unit specifications						
Dimensions	LxDxH	mm	950x635x280	1370x740x280	1370x740x280	1370x740x280
Net weight		Kg	34	54	54	54
Sound power level	Max	dB(A)	65	65	67	70
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	38/33/29/25	44/38/36/30	45/40/34/29	47/40/35/30
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	1440/1140/900/600	2160/1680/1500/1140	2340/1920/1560/1200	2880/2100/1680/1320
Fan static pressure	Std/Max	Pa	35/200	60/200	60/200	60/200
Outdoor unit specifications						
Dimensions	LxDxH	mm	880(+88)x340x750	970x370x1300	970x370x1300	970x370x1300
Net weight		Kg	60	99	99	99
Sound power level	Max	dB(A)	66	67	70	71
Sound pressure level	Max	dB(A)	51	53	54	54
Volume of air treated	Max	m³/h	3600	6000	6000	6000
Operating range (outdoor temperature)	Cooling	°C	-15~+50			
	Heating	°C	-20~+20			
Accessories						
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EXZ3A (touch + zone control) / RCH-E3 (simplified)			
IR remote control (KIT)			RCN-KIT4-E2			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (KIT)			LB-KIT2			
SUPERLINK II interface			SC-ADNA-E			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT HYPER

CEILING R32

OPTIONAL

- Ideal for very large environments, thanks to the particularly wide air flow
- **100 m**
  Splitting distance
- Versatile installation thanks to drain pipe and refrigerant flexibility
- Polypropylene filter included

FDE 71-100-125-140 VH

Indoor unit model			FDE 71 VH	FDE 100 VH	FDE 125 VH	FDE 140 VH
Outdoor unit model			FDC 71 VNX-W	FDC 100 VSX-W	FDC 125 VSX-W	FDC 140 VSX-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (3.20~8.00)	10.00 (3.50~11.20)	12.50 (3.50~14.00)	14.00 (3.50~16.00)
Rated power input (T=+35°C)		kW	1.87	2.33	3.34	4.08
Rated energy efficiency coefficient		EER[1]	3.80	4.29	3.75	3.43
Rated capacity (T=+7°C)	Heating	kW	8.00 (3.60~9.00)	11.20 (2.70~16.00)	14.00 (2.70~18.00)	16.00 (2.70~20.00)
Rated power input (T=+7°C)		kW	1.87	2.52	3.74	4.41
Rated energy performance coefficient		COP[1]	4.28	4.45	3.74	3.63
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	10.00	12.50	14.00
Seasonal energy efficiency index		SEER[2]	6.58	7.00	6.53	6.29
Seasonal energy efficiency class		626/2011[3]	A++	A++	-	-
Annual energy consumption		kWh/y	378	501	-	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	6.00	11.20	14.00	15.50
Seasonal performance coefficient		SCOP[2]	4.45	4.24	4.02	3.96
Seasonal energy efficiency (ηs)		%	175.00	166.60	157.80	155.40
Seasonal energy efficiency class		626/2011[3]	A+	A+	-	-
Annual energy consumption		kWh/y	1889	3700	-	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz		
Power cable		Type	3 x 4 mm²	5 x 4 mm²	5 x 4 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	8.30	4.00	5.40	6.50
	Heating	A	8.30	4.20	6.10	7.20
Maximum current		A	19.10	14.00	14.00	14.00
Max power input		kW	4.11	8.90	8.90	8.90
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	2.75	4	4	4
Tons of CO2 equivalent		t	1.856	2.700	2.700	2.700
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance	Min/Max	m	3/50	3/100	3/100	3/100
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	30/15	50/15	50/15	50/15
Splitting distance without additional charge		m	30	30	30	30
Additional charge		g/m	54	54	54	54
Indoor unit specifications						
Dimensions	LxDxH	mm	1320x690x210	1620x690x250	1620x690x250	1620x690x250
Net weight		Kg	33	43	43	43
Sound power level	Max	dB(A)	60	64	64	65
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	47/41/37/32	48/43/38/34	48/45/40/35	49/45/40/36
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	1200/960/780/600	1920/1560/1260/990	1920/1740/1380/1020	2040/1740/1380/1080
Outdoor unit specifications						
Dimensions	LxDxH	mm	880(+88)x340x750	970x370x1300	970x370x1300	970x370x1300
Net weight		Kg	60	99	99	99
Sound power level	Max	dB(A)	66	67	70	71
Sound pressure level	Max	dB(A)	51	53	54	54
Volume of air treated	Max	m³/h	3600	6000	6000	6000
Operating range (outdoor temperature)	Cooling	°C	-15~+50			
	Heating	°C	-20~+20			
Accessories						
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)			
IR remote control (KIT)			RCN-E-E3			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (KIT)			LB-E			
SUPERLINK II interface			SC-ADNA-E			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT HYPER

COLUMN R32

FDF 71-100-125-140 VH

OPTIONAL

- Ideal for restaurants, shops and officies applications, without false ceiling or high ceilings
- **100 m**
  Splitting distance
- Wide and powerful air flow
- Easy transport and installation
- The wired control has a alarm function in case of gas leakage. The gas sensor is on the base of the unit

Indoor unit model			FDF 71 VH	FDF 100 VH	FDF 125 VH	FDF 140 VH
Outdoor unit model			FDC 71 VNX-W	FDC 100 VSX-W	FDC 125 VSX-W	FDC 140 VSX-W
Type			DC-Inverter heat pump			
Control (included)			Wired control TOUCH with gas leak alarm			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (3.20~8.00)	10.00 (3.50~11.20)	12.50 (3.50~14.00)	14.00 (3.50~16.00)
Rated power input (T=+35°C)		kW	1.97	2.66	3.74	4.62
Rated energy efficiency coefficient		EER[1]	3.61	3.76	3.34	3.03
Rated capacity (T=+7°C)	Heating	kW	8.00 (3.60~9.00)	11.20 (2.70~16.00)	14.00 (2.70~18.00)	16.00 (2.70~20.00)
Rated power input (T=+7°C)		kW	2.21	2.95	3.88	4.70
Rated energy performance coefficient		COP[1]	3.62	3.80	3.61	3.41
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	10.00	12.50	14.00
Seasonal energy efficiency index		SEER[2]	6.25	6.10	5.95	5.75
Seasonal energy efficiency class		626/2011[3]	A++	A++	-	-
Annual energy consumption		kWh/y	376	574	-	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	6.00	11.20	14.00	15.50
Seasonal performance coefficient		SCOP[2]	4.03	3.84	3.78	3.65
Seasonal energy efficiency (ηs)		%	158.20	158.20	148.20	143.00
Seasonal energy efficiency class		626/2011[3]	A+	A	-	-
Annual energy consumption		kWh/y	2085	4084	-	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz		
Power cable		Type	3 x 4 mm2	5 x 4 mm2	5 x 4 mm2	5 x 4 mm2
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	8.70	4.60	6.10	7.40
	Heating	A	9.90	5.00	6.40	7.70
Maximum current		A	19.10	14.00	14.00	14.00
Max power input		kW	4.11	8.90	8.90	8.90
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	2.75	4	4	4
Tons of CO2 equivalent		t	1.856	2.700	2.700	2.700
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance	Min/Max	m	-/50	3/100	3/100	3/100
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	30/15	50/15	50/15	50/15
Splitting distance without additional charge		m	30	30	30	30
Additional charge		g/m	54	54	54	54
Indoor unit specifications						
Dimensions	LxDxH	mm	600x329x1850	600x329x1850	600x329x1850	600x329x1850
Net weight		Kg	47	49	49	49
Sound power level	Max	dB(A)	55	65	67	67
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	42/39/35/33	53/51/49/44	55/51/49/44	55/51/49/44
Volume of air treated	P-Hi/Hi/Me/Lo	m3/h	1080/960/840/720	1620/1560/1380/1140	1740/1560/1380/1140	1740/1560/1380/1140
Refrigerant gas leak detector			INCLUDED			
Outdoor unit specifications						
Dimensions	LxDxH	mm	880(+88)x340x750	970x370x1300	970x370x1300	970x370x1300
Net weight		Kg	60	99	99	99
Sound power level	Max	dB(A)	66	67	70	71
Sound pressure level	Max	dB(A)	51	53	54	54
Volume of air treated	Max	m3/h	3600	6000	6000	6000
Operating range (outdoor temperature)	Cooling	°C	-15~+50			
	Heating	°C	-20~+20			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (KIT)			LB-KIT2			
SUPERLINK II interface			SC-ADNA-E			
IR remote control (KIT)			RCN-KIT4-E2			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT HYPER

WALL R32

INCLUDED

- **339 mm**
  Height
- **100 m**
  Splitting distance
- **28 dB(A)**
  Sound power level (7.10 kW), maximum quiet
- Antibacterial treatment on fan
- The powerful air flow is realized with Jet technology
- Ideal for large living rooms and shops
- Equipped with dust and photocatalytic filters

SRK 71-100 ZR-WF

Indoor unit model			SRK 71 ZR-WF	SRK 100 ZR-WF
Outdoor unit model			FDC 71 VNX-W	FDC 100 VSX-W
Type			DC-Inverter heat pump	
Control (included)			Remote control	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	7.10 (3.20~8.00)	10.00 (3.50~11.20)
Rated power input (T=+35°C)		kW	1.93	2.74
Rated energy efficiency coefficient		EER[1]	3.68	3.65
Rated capacity (T=+7°C)	Heating	kW	8.00 (3.60~9.00)	11.20 (2.70~16.00)
Rated power input (T=+7°C)		kW	1.78	3.04
Rated energy performance coefficient		COP[1]	4.49	3.69
Seasonal data				
Design load (Pdesignc)	Cooling	kW	7.10	10.00
Seasonal energy efficiency index		SEER[2]	6.80	6.54
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/y	366	535
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.80	10.50
Seasonal performance coefficient		SCOP[2]	4.56	4.01
Seasonal energy efficiency (ηs)		%	179.40	157.40
Seasonal energy efficiency class		626/2011[3]	A+	A
Annual energy consumption		kWh/y	1782	3671
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz
Power cable		Type	3 x 4 mm2	5 x 4 mm2
Connection wires between I.U. and O.U.		nb.	4	4
Nominal absorbed current	Cooling	A	8.60	4.70
	Heating	A	7.90	5.10
Maximum current		A	19.10	14.00
Max power input		kW	4.11	8.90
Refrigerant circuit data				
Refrigerant[4]		Type (GWP)	R32 (675)	
Quantity of refrigerant pre-charge		Kg	2.75	4
Tons of CO2 equivalent		t	1.856	2.700
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance	Min/Max	m	3/50	3/100
Max splitting level difference I.U./O.U.	O.U. above/O.U. below	m	30/15	50/15
Splitting distance without additional charge		m	30	30
Additional charge		g/m	54	54
Indoor unit specifications				
Dimensions	LxDxH	mm	1197x262x339	1197x262x339
Net weight		Kg	15.5	16.5
Sound power level	Max	dB(A)	60	63
Sound pressure level (Hi/Mi/Lo/ULo)	Cooling	dB(A)	44/41/37/25	48/45/40/27
	Heating		46/39/35/28	48/43/38/30
Volume of air treated (Hi/Mi/Lo/ULo)	Cooling	m3/h	1230/1116/972/624	1470/1278/1056/624
	Heating		1500/1188/1038/798	1650/1392/1146/816
Outdoor unit specifications				
Dimensions	LxDxH	mm	880(+88)x340x750	970x370x1300
Net weight		Kg	60	99
Sound power level	Max	dB(A)	66	67
Sound pressure level	Max	dB(A)	51	53
Volume of air treated	Max	m3/h	3600	6000
Operating range (outdoor temperature)	Cooling	°C	-15~+50	
	Heating	°C	-20~+20	
Optional parts				
Wi-Fi module			Included	
Interface for home automation and wired control connection[5]			SC-BIKN2-E	

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation and optional protocols with dedicated interfaces: KNX, Modbus, BACnet.

SUPER SERIES R32

COMMERCIAL MONO & MULTI

Design flexibility thanks to the small dimensions of the machines

Application solutions that meet the installation needs of both small and medium commercial spaces and industrial contexts

- **SEER up to 7.13**
  Better seasonal efficiency
- **SCOP up to 4.60**
  Better seasonal efficiency
- Compact dimensions up to 6HP
- Better installation flexibility:
  splitting level difference I.U.-O.U. 50 m
- Wide availability of indoor units
- New PCB cooling system: a branch of the cooling circuit is passed to the base of the electronic board to avoid overheating

BLUE FIN

FDC 100 VNA-W/VSA-W (4HP)
FDC 125 VNA-W/VSA-W (5HP)
FDC 140 VNA-W/VSA-W (6HP)

BLUE FIN

FDC 200 VSA-W (8HP)
FDC 250 VSA-W (10HP)
FDC 280 VSA-W (12HP)

VNA-W = 1-PHASE
VSA-W= 3-PHASE

MONOSPLIT SUPER

CASSETTE 84X84 R32

OPTIONAL

FDT 100-125-140 VH
Standard white panel
T-PSA-5BW-E

FDT 100-125-140 VH
Anti-draft white panel
T-PSAE-5BW-E

FDT 100-125-140 VH
Standard black panel
T-PSA-5BB-E

FDT 100-125-140 VH
Black anti-draft panel
T-PSAE-5BB-E

Indoor unit model			FDT 100 VH	FDT 100 VH	FDT 125 VH	FDT 125 VH	FDT 140 VH	FDT 140 VH
Outdoor unit model			FDC 100 VNA-W	FDC 100 VSA-W	FDC 125 VNA-W	FDC 125 VSA-W	FDC 140 VNA-W	FDC 140 VSA-W
Type			DC-Inverter heat pump					
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	10.00 (4.00~11.20)		12.50 (5.00~14.00)		13.60 (5.00~14.50)	
Rated power input (T=+35°C)		kW	2.73		4.05		4.79	
Rated energy efficiency coefficient		EER[1]	3.66		3.09		2.84	
Rated capacity (T=+7°C)	Heating	kW	11.20 (4.00~12.50)		14.00 (4.00~16.00)		15.50 (4.00~16.50)	
Rated power input (T=+7°C)		kW	2.54		3.59		4.18	
Rated energy performance coefficient		COP[1]	4.41		3.90		3.71	
Seasonal data								
Design load (Pdesignc)	Cooling	kW	10.00		12.50		13.60	
Seasonal energy efficiency index		SEER[2]	7.13		6.53		6.17	
Seasonal energy efficiency class		626/2011[3]	A++		-		-	
Annual energy consumption		kWh/y	491		-		-	
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50		9.80		10.50	
Seasonal performance coefficient		SCOP[2]	4.60		4.38		4.42	
Seasonal energy efficiency (ηs)		%	181.00		172.20		173.80	
Seasonal energy efficiency class		626/2011[3]	A++		-		-	
Annual energy consumption		kWh/y	2590		-		-	
Electrical data								
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz
Power cable		Type	3 x 6 mm2	5 x 4 mm2	3 x 6 mm2	5 x 4 mm2	3 x 6 mm2	5 x 4 mm2
Connection wires between I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	13.20	4.20	18.70	6.20	21.50	7.40
	Heating	A	12.40	3.90	16.80	5.50	18.50	6.60
Maximum current		A	24.00	15.00	24.00	15.00	24.00	15.00
Max power input		kW	6.40	10.20	6.40	10.20	6.40	10.20
Refrigerant circuit data								
Refrigerant[4]		Type (GWP)	R32 (675)					
Quantity of refrigerant pre-charge		Kg	3.3		3.3		3.3	
Tons of CO2 equivalent		t	2.228		2.228		2.228	
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")	
Splitting distance	Min/Max	m	50		50		50	
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	50/15		50/15		50/15	
Splitting distance without additional charge		m	30		30		30	
Additional charge		g/m	54		54		54	
Indoor unit specifications								
Dimensions	LxDxH	mm	840x840x298		840x840x298		840x840x298	
Net weight		Kg	25		25		25	
Sound power level	Max	dB(A)	62		64		64	
Sound pressure level (P-Hi/Hi/Mi/Lo)	Cooling	dB(A)	47/39/36/30		48/41/39/31		48/42/39/32	
	Heating		47/39/36/29		48/41/38/31		48/41/38/31	
Volume of air treated	P-Hi/Hi/Me/Lo	m3/h	2220/1560/1380/1020		2280/1680/1500/1080		2280/1740/1560/1140	
Outdoor unit specifications								
Dimensions	LxDxH	mm	970x370x845		970x370x845		970x370x845	
Net weight		Kg	77	78	77	78	77	78
Sound power level	Max	dB(A)	70		71		73	
Sound pressure level	Max	dB(A)	55		56		58	
Volume of air treated	Max	m3/h	4500		4500		4500	
Operating range (outdoor temperature)	Cooling	°C	-15~+50		-15~+50		-15~+50	
	Heating	°C	-20~+20		-20~+20		-20~+20	
Accessories								
Decorative panel			T-PSA-5BW-E (white) / T-PSA-5BB-E (black)					
Panel size	LxDxH	mm	950x950x35		950x950x35		950x950x35	
Net weight		Kg	5		5		5	
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)					
IR remote control (corner KIT)			RCN-T-5BW-E2 (white) / RCN-T-5BB-E2 (black)					
Optional parts								
Wi-Fi module			INWFIMHI001R100					
Human sensor (corner KIT)			LB-T-5BW-E (white) / LB-T-5BB-E (black)					
SUPERLINK II interface			SC-ADNA-E					
Anti-draft panel			T-PSAE-5BW-E (white) / T-PSAE-5BB-E (black)					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N. 2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT SUPER

DUCTED MEDIUM STATIC PRESSURE ADJUSTABLE R32

FDUM 100-125-140 VH

OPTIONAL

- **max 100**
  Fan static pressure
- Unit with bottom or rear air intake
- **280 mm**
  Height
- **50 m**
  Splitting distance
- ESP function: automatic maintenance of the air flow rate as flow resistance varies
- Filter not included
- Compatible with AIRZONE systems

Indoor unit model			FDUM 100 VH	FDUM 100 VH	FDUM 125 VH	FDUM 125 VH	FDUM 140 VH	FDUM 140 VH
Outdoor unit model			FDC 100 VNA-W	FDC 100 VSA-W	FDC 125 VNA-W	FDC 125 VSA-W	FDC 140 VNA-W	FDC 140 VSA-W
Type			DC-Inverter heat pump					
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	10.00 (4.00~11.20)		12.50 (5.00~14.00)		13.60 (5.00~14.50)	
Rated power input (T=+35°C)		kW	2.99		4.36		5.13	
Rated energy efficiency coefficient		EER[1]	3.35		2.87		2.65	
Rated capacity (T=+7°C)	Heating	kW	11.20 (4.00~12.50)		14.00 (4.00~16.00)		15.50 (4.00~16.50)	
Rated power input (T=+7°C)		kW	2.66		3.69		4.21	
Rated energy performance coefficient		COP[1]	4.21		3.79		3.68	
Seasonal data								
Design load (Pdesignc)	Cooling	kW	10.00		12.50		13.60	
Seasonal energy efficiency index		SEER[2]	6.11		5.57		5.30	
Seasonal energy efficiency class		626/2011[3]	A++		-		-	
Annual energy consumption		kWh/y	574		-		-	
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50		9.80		10.50	
Seasonal performance coefficient		SCOP[2]	4.19		4.13		4.01	
Seasonal energy efficiency (ηs)		%	164.60		162.20		157.40	
Seasonal energy efficiency class		626/2011[3]	A+		-		-	
Annual energy consumption		kWh/y	2843		-		-	
Electrical data								
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz
Power cable		Type	3 x 6 mm²	5 x 4 mm²	3 x 6 mm²	5 x 4 mm²	3 x 6 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	14.30	4.60	20.40	6.80	23.70	8.10
	Heating	A	12.70	4.10	17.80	5.90	20.30	6.80
Maximum current		A	26.00	17.00	26.00	17.00	27.00	18.00
Max power input		kW	6.40	10.20	6.40	10.20	6.40	10.20
Refrigerant circuit data								
Refrigerant[4]		Type (GWP)	R32 (675)					
Quantity of refrigerant pre-charge		Kg	3.3		3.3		3.3	
Tons of CO2 equivalent		t	2.228		2.228		2.228	
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")	
Splitting distance		m	50		50		50	
Splitting level difference I.U./O.U.	O.U: above/O.U. below	m	50/15		50/15		50/15	
Splitting distance without additional charge		m	30		30		30	
Additional charge		g/m	54		54		54	
Indoor unit specifications								
Dimensions	LxDxH	mm	1370x740x280		1370x740x280		1370x740x280	
Net weight		Kg	54		54		54	
Sound power level	Max	dB(A)	65		67		70	
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	44/38/36/30		45/40/34/29		47/40/35/30	
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	2160/1680/1500/1140		2340/1920/1560/1200		2880/2100/1680/1320	
Fan static pressure	Std/Max	Pa	60/100		60/100		60/100	
Outdoor unit specifications								
Dimensions	LxDxH	mm	970x370x845		970x370x845		970x370x845	
Net weight		Kg	77	78	77	78	77	78
Sound power level	Max	dB(A)	70		71		73	
Sound pressure level	Max	dB(A)	55		56		58	
Volume of air treated	Max	m³/h	4500		4500		4500	
Operating range (outdoor temperature)	Cooling	°C	-15~+50					
	Heating	°C	-20~+20					
Accessories								
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EXZ3A (touch + zone control) / RCH-E3 (simplified)					
IR remote control (KIT)			RCN-KIT4-E2					
Optional parts								
Wi-Fi module			INWFIMHI001R100					
Human sensor (KIT)			LB-KIT2					
SUPERLINK II interface			SC-ADNA-E					
Recovery filter (KIT)			UM-FL3EF					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT SUPER

DUCTED HIGH STATIC PRESSURE ADJUSTABLE R32

FDU 100-125-140 VH

OPTIONAL

- **max 200** Fan static pressure
- Unit with bottom or rear air intake
- **280 mm** Height
- **50 m** Splitting distance
- ESP function: automatic maintenance of the air flow rate as flow resistance varies
- Filter not included
- Compatible with AIRZONE systems

Indoor unit model			FDU 100 VH	FDU 100 VH	FDU 125 VH	FDU 125 VH	FDU 140 VH	FDU 140 VH
Outdoor unit model			FDC 100 VNA-W	FDC 100 VSA-W	FDC 125 VNA-W	FDC 125 VSA-W	FDC 140 VNA-W	FDC 140 VSA-W
Type			DC-Inverter heat pump					
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	10.00 (4.00~11.20)		12.50 (5.00~14.00)		13.60 (5.00~14.50)	
Rated power input (T=+35°C)		kW	2.99		4.36		5.13	
Rated energy efficiency coefficient		EER[1]	3.35		2.87		2.65	
Rated capacity (T=+7°C)	Heating	kW	11.20 (4.00~12.50)		14.00 (4.00~16.00)		15.50 (4.00~16.50)	
Rated power input (T=+7°C)		kW	2.66		3.69		4.21	
Rated energy performance coefficient		COP[1]	4.21		3.79		3.68	
Seasonal data								
Design load (Pdesignc)	Cooling	kW	10.00		12.50		13.60	
Seasonal energy efficiency index		SEER[2]	6.11		5.57		5.30	
Seasonal energy efficiency class		626/2011[3]	A++		-		-	
Annual energy consumption		kWh/y	574		-		-	
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50		9.80		10.50	
Seasonal performance coefficient		SCOP[2]	4.19		4.13		4.01	
Seasonal energy efficiency (ηs)		%	164.60		162.20		157.40	
Seasonal energy efficiency class		626/2011[3]	A+		-		-	
Annual energy consumption		kWh/y	2843		-		-	
Electrical data								
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz	3~380~415V-50Hz	1~220~240V-50Hz	3~380~415V-50Hz	1~220~240V-50Hz	3~380~415V-50Hz
Power cable		Type	3 x 6 mm²	5 x 4 mm²	3 x 6 mm²	5 x 4 mm²	3 x 6 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	14.30	4.60	20.40	6.80	23.70	8.10
	Heating	A	12.70	4.10	17.80	5.90	20.30	6.80
Maximum current		A	26.00	17.00	26.00	17.00	27.00	18.00
Max power input		kW	6.40	10.20	6.40	10.20	6.40	10.20
Refrigerant circuit data								
Refrigerant[4]		Type (GWP)	R32 (675)					
Quantity of refrigerant pre-charge		Kg	3.3		3.3		3.3	
Tons of CO2 equivalent		t	2.228		2.228		2.228	
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")	
Splitting distance		m	50		50		50	
Splitting level difference I.U./O.U.	O.U: above/O.U. below	m	50/15		50/15		50/15	
Splitting distance without additional charge		m	30		30		30	
Additional charge		g/m	54		54		54	
Indoor unit specifications								
Dimensions	LxDxH	mm	1370x740x280		1370x740x280		1370x740x280	
Net weight		Kg	54		54		54	
Sound power level	Max	dB(A)	65		67		70	
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	44/38/36/30		45/40/34/29		47/40/35/30	
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	2160/1680/1500/1140		2340/1920/1560/1200		2880/2100/1680/1320	
Fan static pressure	Std/Max	Pa	60/200		60/200		60/200	
Outdoor unit specifications								
Dimensions	LxDxH	mm	970x370x845		970x370x845		970x370x845	
Net weight		Kg	77	78	77	78	77	78
Sound power level	Max	dB(A)	70		71		73	
Sound pressure level	Max	dB(A)	55		56		58	
Volume of air treated	Max	m³/h	4500		4500		4500	
Operating range (outdoor temperature)	Cooling	°C	-15~+50					
	Heating	°C	-20~+20					
Accessories								
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EXZ3A (touch + zone control) / RCH-E3 (simplified)					
IR remote control (KIT)			RCN-KIT4-E2					
Optional parts								
Wi-Fi module			INWFIMHI001R100					
Human sensor (KIT)			LB-KIT2					
SUPERLINK II interface			SC-ADNA-E					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT SUPER

DUCTED HIGH STATIC PRESSURE ADJUSTABLE R32

OPTIONAL

- **max 200**
  Fan static pressure
- Unit with bottom or rear air intake
- **70 m**
  Splitting distance (20.00~25.00 kW)
- ESP function: automatic maintenance of the air flow rate as flow resistance varies

FDU 200-250-280 VH

Indoor unit model			FDU 200 VH	FDU 250 VH	FDU 280 VH
Outdoor unit model			FDC 200 VSA-W	FDC 250 VSA-W	FDC 280 VSA-W
Type			DC-Inverter heat pump		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	20.00 (7.20~22.40)	25.00 (7.20~28.00)	27.00 (6.90~31.50)
Rated power input (T=+35°C)		kW	6.15	8.25	9.15
Rated energy efficiency coefficient		EER[1]	3.25	3.03	2.95
Rated capacity (T=+7°C)	Heating	kW	22.40 (6.50~25.00)	28.00 (6.70~31.50)	30.00 (6.90~33.50)
Rated power input (T=+7°C)		kW	5.67	7.55	9.12
Rated energy performance coefficient		COP[1]	3.95	3.75	3.29
Seasonal data					
Design load (Pdesignc)	Cooling	kW	20.00	25.00	27.00
Seasonal energy efficiency index		SEER[2]	5.90	4.89	4.93
Seasonal energy efficiency class		626/2011[3]	-	-	-
Annual energy consumption		kWh/y	-	-	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	13.70	14.20	16.00
Seasonal performance coefficient		SCOP[2]	3.55	3.54	3.70
Seasonal energy efficiency (ηs)		%	139.00	138.60	145.00
Seasonal energy efficiency class		626/2011[3]	-	-	-
Annual energy consumption		kWh/y	-	-	-
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	3-380~415V-50Hz		
Power cable		Type	5 x 6 mm^2	5 x 6 mm^2	5 x 6 mm^2
Connection wires between I.U. and O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	9.80	12.70	14.20
	Heating	A	8.90	11.60	14.00
Maximum current		A	23.00	25.00	25.00
Max power input		kW	12.00	11.20	11.40
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Quantity of refrigerant pre-charge		Kg	4.3	5.1	5.6
Tons of CO2 equivalent		t	2.903	3.443	3.780
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø22.2 (7/8")[5]	ø12.7 (1/2") - ø22.2 (7/8")[5]	ø12.7 (1/2") - ø22.2 (7/8")[5]
Splitting distance		m	70	70	60
Splitting level difference I.U./O.U.	O.U: above/O.U. below	m	50/15	50/15	50/15
Splitting distance without additional charge		m	30	30	30
Additional charge		g/m	Consultare il manuale tecnico[5]		
Indoor unit specifications					
Dimensions	LxDxH	mm	1600x893x379	1600x893x379	1600x893x379
Net weight		Kg	88	88	88
Sound power level	Max	dB(A)	78	78	78
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	52/50/47/45	52/50/47/45	52/50/47/45
Volume of air treated	P-Hi/Hi/Me/Lo	m^3/h	4800/4320/3840/3360	4800/4320/3840/3360	4800/4320/3840/3360
Fan static pressure	Std/Max	Pa	72/200	72/200	72/200
Outdoor unit specifications					
Dimensions	LxDxH	mm	970x370x1505	970x370x1505	970x370x1505
Net weight		Kg	144	145	155
Sound power level	Max	dB(A)	74	75	77
Sound pressure level	Max	dB(A)	59	62	63
Volume of air treated	Max	m^3/h	8880	9180	8400
Operating range (outdoor temperature)	Cooling	°C	-15~+50		
	Heating	°C	-20~+20		
Accessories					
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EXZ3A (touch + zone control) / RCH-E3 (simplified)		
IR remote control (KIT)			RCN-KIT4-E2		
Optional parts					
Wi-Fi module			INWFIMHI001R100		
Human sensor (KIT)			LB-KIT2		
SUPERLINK II interface			SC-ADNA-E		

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT SUPER

CEILING R32

OPTIONAL

- Ideal for very large environments, thanks to the particularly wide air flow
- **50 m**
  Splitting distance
- Versatile installation thanks to drain pipe and refrigerant flexibility
- Polypropylene filter included

FDE 100-125-140 VH

Indoor unit model			FDE 100 VH	FDE 100 VH	FDE 125 VH	FDE 125 VH	FDE 140 VH	FDE 140 VH
Outdoor unit model			FDC 100 VNA-W	FDC 100 VSA-W	FDC 125 VNA-W	FDC 125 VSA-W	FDC 140 VNA-W	FDC 140 VSA-W
Type			DC-Inverter heat pump					
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	10.00 (4.00~11.20)		12.50 (5.00~14.00)		13.60 (5.00~14.50)	
Rated power input (T=+35°C)		kW	2.85		4.45		5.05	
Rated energy efficiency coefficient		EER[1]	3.51		2.81		2.69	
Rated capacity (T=+7°C)	Heating	kW	11.20 (4.00~12.50)		14.00 (4.00~16.00)		15.50 (4.00~16.50)	
Rated power input (T=+7°C)		kW	2.54		3.74		4.18	
Rated energy performance coefficient		COP[1]	4.41		3.74		3.71	
Seasonal data								
Design load (Pdesignc)	Cooling	kW	10.00		12.50		13.60	
Seasonal energy efficiency index		SEER[2]	6.67		6.03		5.76	
Seasonal energy efficiency class		626/2011[3]	A++		-		-	
Annual energy consumption		kWh/y	525		-		-	
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50		9.80		10.50	
Seasonal performance coefficient		SCOP[2]	4.31		4.30		4.24	
Seasonal energy efficiency (ηs)		%	169.40		169.00		166.60	
Seasonal energy efficiency class		626/2011[3]	A+		-		-	
Annual energy consumption		kWh/y	2764		-		-	
Electrical data								
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz
Power cable		Type	3 x 6 mm²	5 x 4 mm²	3 x 6 mm²	5 x 4 mm²	3 x 6 mm²	5 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	13.80	4.60	20.40	6.90	22.20	7.80
	Heating	A	12.40	4.00	17.50	5.90	18.40	6.50
Maximum current		A	24.00	15.00	24.00	15.00	24.00	15.00
Max power input		kW	6.40	10.20	6.40	10.20	6.40	10.20
Refrigerant circuit data								
Refrigerant[4]		Type (GWP)	R32 (675)					
Quantity of refrigerant pre-charge		Kg	3.3		3.3		3.3	
Tons of CO2 equivalent		t	2.228		2.228		2.228	
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")	
Splitting distance		m	50		50		50	
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	50/15		50/15		50/15	
Splitting distance without additional charge		m	30		30		30	
Additional charge		g/m	54		54		54	
Indoor unit specifications								
Dimensions	LxDxH	mm	1620x690x250		1620x690x250		1620x690x250	
Net weight		Kg	43		43		43	
Sound power level	Max	dB(A)	64		64		65	
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	48/43/38/34		48/45/40/35		49/45/40/36	
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	1920/1560/1260/990		1920/1740/1380/1020		2040/1740/1380/1080	
Outdoor unit specifications								
Dimensions	LxDxH	mm	970x370x845		970x370x845		970x370x845	
Net weight		Kg	77	78	77	78	77	78
Sound power level	Max	dB(A)	70		71		73	
Sound pressure level	Max	dB(A)	55		56		58	
Volume of air treated	Max	m³/h	4500		4500		4500	
Operating range (outdoor temperature)	Cooling	°C	-15~+50					
	Heating	°C	-20~+20					
Accessories								
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)					
IR remote control (KIT)			RCN-E-E3					
Optional parts								
Wi-Fi module			INWFIMHI001R100					
Human sensor (KIT)			LB-E					
SUPERLINK II interface			SC-ADNA-E					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT SUPER

COLUMN R32

FDF 100-125-140 VH

OPTIONAL

- Ideal for restaurants, shops and officies applications, without false ceiling or high ceilings
- **50 m**
  Splitting distance
- Wide and powerful air flow
- Easy transport and installation
- The wired control has a alarm function in case of gas leakage. The gas sensor is on the base of the unit

Indoor unit model			FDF 100 VH	FDF 100 VH	FDF 125 VH	FDF 125 VH	FDF 140 VH	FDF 140 VH
Outdoor unit model			FDC 100 VNA-W	FDC 100 VSA-W	FDC 125 VNA-W	FDC 125 VSA-W	FDC 140 VNA-W	FDC 140 VSA-W
Type			DC-Inverter heat pump					
Control (included)			Wired control TOUCH with gas leak alarm					
Nominal data								
Rated capacity (T=+35°C)	Cooling	kW	10.00 (4.00~11.20)		12.50 (5.00~14.00)		13.60 (5.00~14.50)	
Rated power input (T=+35°C)		kW	3.08		4.65		5.35	
Rated energy efficiency coefficient		EER[1]	3.25		2.69		2.54	
Rated capacity (T=+7°C)	Heating	kW	11.20 (4.00~12.50)		14.00 (4.00~16.00)		15.50 (4.00~16.50)	
Rated power input (T=+7°C)		kW	2.94		4.10		4.98	
Rated energy performance coefficient		COP[1]	3.81		3.42		3.11	
Seasonal data								
Design load (Pdesignc)	Cooling	kW	10.00		12.50		13.60	
Seasonal energy efficiency index		SEER[2]	5.76		5.28		5.13	
Seasonal energy efficiency class		626/2011[3]	A++		-		-	
Annual energy consumption		kWh/y	608		-		-	
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50		9.80		10.50	
Seasonal performance coefficient		SCOP[2]	4.00		3.89		3.92	
Seasonal energy efficiency (ηs)		%	157.00		152.60		153.80	
Seasonal energy efficiency class		626/2011[3]	A+		-		-	
Annual energy consumption		kWh/y	2973		-		-	
Electrical data								
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz	1-220~240V-50Hz	3-380~415V-50Hz
Power cable		Type	3 x 6 mm2	5 x 4 mm2	3 x 6 mm2	5 x 4 mm2	3 x 6 mm2	5 x 4 mm2
Connection wires between I.U. and O.U.		nb.	4	4	4	4	4	4
Nominal absorbed current	Cooling	A	14.90	4.80	21.50	7.20	24.00	8.40
	Heating	A	14.40	4.60	19.20	6.30	22.10	7.90
Maximum current		A	24.00	15.00	24.00	15.00	24.00	15.00
Max power input		kW	6.40	10.20	6.40	10.20	6.40	10.20
Refrigerant circuit data								
Refrigerant[4]		Type (GWP)	R32 (675)					
Quantity of refrigerant pre-charge		Kg	3.3		3.3		3.3	
Tons of CO2 equivalent		t	2.228		2.228		2.228	
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")		ø9.52 (3/8") - ø15.88(5/8")	
Splitting distance		m	50		50		50	
Splitting level difference I.U./O.U.	O.U. above/O.U. below	m	50/15		50/15		50/15	
Splitting distance without additional charge		m	30		30		30	
Additional charge		g/m	54		54		54	
Indoor unit specifications								
Dimensions	LxDxH	mm	600x329x1850		600x329x1850		600x329x1850	
Net weight		Kg	49		49		49	
Sound power level	Max	dB(A)	65		67		67	
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	53/51/49/44		55/51/49/44		55/51/49/44	
Volume of air treated	P-Hi/Hi/Me/Lo	m3/h	1620/1560/1380/1140		1740/1560/1380/1140		1740/1560/1380/1140	
Refrigerant gas leak detector			Included					
Outdoor unit specifications								
Dimensions	LxDxH	mm	970x370x845		970x370x845		970x370x845	
Net weight		Kg	77	78	77	78	77	78
Sound power level	Max	dB(A)	70		71		73	
Sound pressure level	Max	dB(A)	55		56		58	
Volume of air treated	Max	m3/h	4500		4500		4500	
Operating range (outdoor temperature)	Cooling	°C	-15~+50					
	Heating	°C	-20~+20					
Optional parts								
Wi-Fi module			INWFIMHI001R100					
Human sensor (KIT)			LB-KIT2					
SUPERLINK II interface			SC-ADNA-E					
IR remote control (KIT)			RCN-KIT4-E2					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT SUPER

WALL R32

SRK 100 ZR-WF

INCLUDED

- **339 mm**
  Height
- **50 m**
  Splitting distance
- **27 dB(A)**
  Sound power level, maximum quiet
- Antibacterial treatment on fan
- The powerful air flow is realized with Jet technology
- Ideal for large living rooms and shops
- Equipped with dust and photocatalytic filter

Indoor unit model			SRK 100 ZR-WF	SRK 100 ZR-WF
Outdoor unit model			FDC 100 VNA-W	FDC 100 VSA-W
Type			DC-Inverter heat pump	
Control (included)			Remote control	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	10.00 (4.00~11.20)	
Rated power input (T=+35°C)		kW	3.19	
Rated energy efficiency coefficient		EER[1]	3.13	
Rated capacity (T=+7°C)	Heating	kW	11.20 (4.00~12.50)	
Rated power input (T=+7°C)		kW	3.04	
Rated energy performance coefficient		COP[1]	3.68	
Seasonal data				
Design load (Pdesignc)	Cooling	kW	10.00	
Seasonal energy efficiency index		SEER[2]	6.13	
Seasonal energy efficiency class		626/2011[3]	A++	
Annual energy consumption		kWh/y	571	
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50	
Seasonal performance coefficient		SCOP[2]	4.33	
Seasonal energy efficiency (ηs)		%	170.20	
Seasonal energy efficiency class		626/2011[3]	A+	
Annual energy consumption		kWh/y	2746	
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	3-380~415V-50Hz
Power cable		Type	3 x 6 mm^2	5 x 4 mm^2
Connection wires between I.U. and O.U.		nb.	4	4
Nominal absorbed current	Cooling	A	14.30	4.80
	Heating	A	13.60	4.60
Maximum current		A	24.00	15.00
Max power input		kW	6.40	10.20
Refrigerant circuit data				
Refrigerant[4]		Type (GWP)	R32 (675)	
Quantity of refrigerant pre-charge		Kg	3.3	
Tons of CO2 equivalent		t	2.228	
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø9.52 (3/8") - ø15.88(5/8")	
Splitting distance		m	50	
Max splitting level difference I.U./O.U.	O.U. above/O.U. below	m	50/15	
Splitting distance without additional charge		m	30	
Additional charge		g/m	54	
Indoor unit specifications				
Dimensions	LxDxH	mm	1197x262x339	
Net weight		Kg	16.5	
Sound power level	Max	dB(A)	63	
Sound pressure level (Hi/Mi/Lo/ULo)	Cooling	dB(A)	48/45/40/27	
	Heating		48/43/38/30	
Volume of air treated (Hi/Mi/Lo/ULo)	Cooling	m^3/h	1470/1278/1056/624	
	Heating		1650/1392/1146/816	
Outdoor unit specifications				
Dimensions	LxDxH	mm	970x370x845	
Net weight		Kg	77	78
Sound power level	Max	dB(A)	70	
Sound pressure level	Max	dB(A)	55	
Volume of air treated	Max	m^3/h	4500	
Operating range (outdoor temperature)	Cooling	°C	-15~+50	
	Heating	°C	-20~+20	
Optional parts				
Wi-Fi module			Included	
Interface for home automation and wired control connection[5]			SC-BIKN2-E	

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation and optional protocols with dedicated interfaces: KNX, Modbus, BACnet.

SMART SERIES

R32

COMMERCIAL MONO

Performance intelligence in compact dimensions

- **4 capacities**
  1-Phase 3~5HP = 7.10~12.10 kW
- Refrigerant pipe diameter, weight and overall dimensions extremely reduced compared to the 7.10 and 10.00 kW outdoor units of the Super line

FDC 71 VNP-W (3HP)

FDC 90 VNP-W (3,5HP)
FDC 100 VNP-W (4HP)

FDC 125 VNP-W (5HP)

MONOSPLIT SMART

CASSETTE 84X84 R32

FDT 71-100-125 VH
Standard white panel
T-PSA-5BW-E

OPTIONAL

FDT 71-100-125 VH
Anti-draft white panel
T-PSAE-5BW-E

FDT 71-100-125 VH
Standard black panel
T-PSA-5BB-E

FDT 71-100-125 VH
Black anti-draft panel
T-PSAE-5BB-E

Indoor unit model			FDT 71 VH	FDT 100 VH	FDT 100 VH	FDT 125 VH
Outdoor unit model			FDC 71 VNP-W	FDC 90 VNP-W	FDC 100 VNP-W	FDC 125 VNP-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.50~7.30)	9.00 (2.10~9.50)	10.00 (2.10~10.20)	12.10 (5.00~12.10)
Rated power input (T=+35°C)		kW	2.31	2.48	2.84	3.69
Rated energy efficiency coefficient		EER[1]	3.07	3.63	3.52	3.28
Rated capacity (T=+7°C)	Heating	kW	7.10 (1.10~7.30)	9.00 (1.70~9.50)	10.00 (1.70~10.40)	12.10 (4.00~13.30)
Rated power input (T=+7°C)		kW	1.73	1.90	2.33	3.20
Rated energy performance coefficient		COP[1]	4.10	4.74	4.29	3.78
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	9.00	10.00	12.10
Seasonal energy efficiency index		SEER[2]	6.34	7.10	7.08	6.30
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++	-
Annual energy consumption		kWh/y	393	444	495	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.70	6.00	6.40	8.00
Seasonal performance coefficient		SCOP[2]	4.38	4.56	4.53	4.19
Seasonal energy efficiency (ηs)		%	172.20	179.40	178.20	164.60
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+	-
Annual energy consumption		kWh/y	1822	1842	1977	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz			
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	10.20	11.00	12.10	15.50
	Heating	A	7.80	8.40	9.90	13.50
Maximum current		A	15.80	19.00	19.00	18.00
Max power input		kW	3.58	4.46	4.46	4.75
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	1.3	1.7	1.7	2.25
Tons of CO2 equivalent		t	0.878	1.148	1.148	1.519
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø6.35(1/4") - ø12.7(1/2")	ø6.35 (1/4") - ø15.88 (5/8")	ø6.35 (1/4") - ø15.88 (5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance		m	30	30	30	30
Splitting level difference I.U./O.U.		m	20	20	20	20
Splitting distance without additional charge		m	15	15	15	15
Additional charge		g/m	20	20	20	54
Indoor unit specifications						
Dimensions	LxDxH	mm	840x840x236	840x840x298	840x840x298	840x840x298
Net weight		Kg	21	25	25	25
Sound power level	Max	dB(A)	60	62	62	64
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	46/34/31/26	47/39/36/30	47/39/36/30	48/41/39/31
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	1680/1080/900/720	2220/1560/1380/1020	2220/1560/1380/1020	2280/1680/1500/1080
Outdoor unit specifications						
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x340x750	880(+88)x340x750	970x370x845
Net weight		Kg	45	57	57	73
Sound power level	Max	dB(A)	67	67	68	73
Sound pressure level	Max	dB(A)	54	55	56	57
Volume of air treated	Max	m³/h	2520	3540	3780	4740
Operating range (outdoor temperature)	Cooling	°C	-15~+46			
	Heating	°C	-15~+20			
Accessories						
Decorative panel			T-PSA-5BW-E (white) / T-PSA-5BB-E (black)			
Panel size	LxDxH	mm	950x950x35	950x950x35	950x950x35	950x950x35
Net weight		Kg	5	5	5	5
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)			
IR remote control (corner KIT)			RCN-T-5BW-E2 (white) / RCN-T-5BB-E2 (black)			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (corner KIT)			LB-T-5BW-E (white) / LB-T-5BB-E (black)			
SUPERLINK II interface			SC-ADNA-E			
Anti-draft panel			T-PSAE-5BW-E (white) / T-PSAE-5BB-E (black)			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012- N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT SMART

DUCTED MEDIUM STATIC PRESSURE ADJUSTABLE R32

OPTIONAL

- **max 100** Fan static pressure
- Unit with bottom or rear air intake
- **280 mm** Height
- **30 m** Splitting distance
- ESP function: automatic maintenance of the air flow rate as flow resistance varies
- Filter not included
- Compatible with AIRZONE systems

FDUM 71-100-125 VH

Indoor unit model			FDUM 71 VH	FDUM 100 VH	FDUM 100 VH	FDUM 125 VH
Outdoor unit model			FDC 71 VNP-W	FDC 90 VNP-W	FDC 100 VNP-W	FDC 125 VNP-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.50~7.30)	9.00 (2.10~9.50)	10.00 (2.10~10.20)	12.10 (5.00~12.10)
Rated power input (T=+35°C)		kW	2.60	2.62	3.08	3.85
Rated energy efficiency coefficient		EER[1]	2.73	3.44	3.25	3.14
Rated capacity (T=+7°C)	Heating	kW	7.10 (1.10~7.30)	9.00 (1.70~9.50)	10.00 (1.70~10.40)	12.10 (4.00~13.30)
Rated power input (T=+7°C)		kW	1.89	1.98	2.45	3.28
Rated energy performance coefficient		COP[1]	3.76	4.55	4.08	3.69
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	9.00	10.00	12.10
Seasonal energy efficiency index		SEER[2]	5.86	6.65	6.11	5.42
Seasonal energy efficiency class		626/2011[3]	A+	A++	A++	-
Annual energy consumption		kWh/y	425	474	573	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.70	6.00	6.40	7.90
Seasonal performance coefficient		SCOP[2]	4.12	4.22	4.13	3.94
Seasonal energy efficiency (ηs)		%	161.80	165.80	162.20	154.60
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+	-
Annual energy consumption		kWh/y	1937	1990	2169	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz			
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	11.50	11.60	13.10	16.20
	Heating	A	8.50	8.80	10.40	13.80
Maximum current		A	15.80	19.00	19.00	20.00
Max power input		kW	3.58	4.46	4.46	4.75
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	1.3	1.7	1.7	2.25
Tons of CO2 equivalent		t	0.878	1.148	1.148	1.519
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø6.35(1/4") - ø12.7(1/2")	ø6.35 (1/4") - ø15.88 (5/8")	ø6.35 (1/4") - ø15.88 (5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance		m	30	30	30	30
Splitting level difference I.U./O.U.		m	20	20	20	20
Splitting distance without additional charge		m	15	15	15	15
Additional charge		g/m	20	20	20	54
Indoor unit specifications						
Dimensions	LxDxH	mm	950x635x280	1370x740x280	1370x740x280	1370x740x280
Net weight		Kg	34	54	54	54
Sound power level	Max	dB(A)	65	65	65	67
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	38/33/29/25	44/38/36/30	44/38/36/30	45/40/34/29
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	1440/1140/900/600	2160/1680/1500/1140	2160/1680/1500/1140	2340/1920/1560/1200
Fan static pressure	Std/Max	Pa	35/100	60/100	60/100	60/100
Outdoor unit specifications						
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x340x750	880(+88)x340x750	970x370x845
Net weight		Kg	45	57	57	73
Sound power level	Max	dB(A)	67	67	68	73
Sound pressure level	Max	dB(A)	54	55	56	57
Volume of air treated	Max	m³/h	2520	3540	3780	4740
Operating range (outdoor temperature)	Cooling	°C	-15~+46			
	Heating	°C	-15~+20			
Accessories						
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EXZ3A (touch + zone control) / RCH-E3 (simplified)			
IR remote control (KIT)			RCN-KIT4-E2			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (KIT)			LB-KIT2			
SUPERLINK II interface			SC-ADNA-E			
Recovery filter (KIT)			UM-FL2EF	UM-FL3EF		

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT SMART

DUCTED HIGH STATIC PRESSURE ADJUSTABLE R32

FDU 71-100-125 VH

OPTIONAL

- **max 200** Fan static pressure
- Unit with bottom or rear air intake
- **280 mm** Height
- **30 m** Splitting distance
- ESP function: automatic maintenance of the air flow rate as flow resistance varies
- Filter not included
- Compatible with AIRZONE systems

Indoor unit model			FDU 71 VH	FDU 100 VH	FDU 100 VH	FDU 125 VH
Outdoor unit model			FDC 71 VNP-W	FDC 90 VNP-W	FDC 100 VNP-W	FDC 125 VNP-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.50~7.30)	9.00 (2.10~9.50)	10.00 (2.10~10.20)	12.10 (5.00~12.10)
Rated power input (T=+35°C)		kW	2.60	2.62	3.08	3.85
Rated energy efficiency coefficient		EER[1]	2.73	3.44	3.25	3.14
Rated capacity (T=+7°C)	Heating	kW	7.10 (1.10~7.30)	9.00 (1.70~9.50)	10.00 (1.70~10.40)	12.10 (4.00~13.30)
Rated power input (T=+7°C)		kW	1.89	1.98	2.45	3.28
Rated energy performance coefficient		COP[1]	3.76	4.55	4.08	3.69
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	9.00	10.00	12.10
Seasonal energy efficiency index		SEER[2]	5.86	6.66	6.11	5.42
Seasonal energy efficiency class		626/2011[3]	A+	A++	A++	-
Annual energy consumption		kWh/y	425	474	573	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.70	6.00	6.40	7.90
Seasonal performance coefficient		SCOP[2]	4.12	4.22	4.13	3.94
Seasonal energy efficiency (ηs)		%	161.80	165.80	162.20	154.60
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+	-
Annual energy consumption		kWh/y	1937	1990	2169	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz			
Power cable		Type	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²	3 x 4 mm²
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	11.50	11.60	13.10	16.20
	Heating	A	8.50	8.80	10.40	13.80
Maximum current		A	15.80	19.00	19.00	20.00
Max power input		kW	3.58	4.46	4.46	4.75
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	1.3	1.7	1.7	2.25
Tons of CO2 equivalent		t	0.878	1.148	1.148	1.519
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø6.35(1/4") - ø12.7(1/2")	ø6.35 (1/4") - ø15.88 (5/8")	ø6.35 (1/4") - ø15.88 (5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance		m	30	30	30	30
Splitting level difference I.U./O.U.		m	20	20	20	20
Splitting distance without additional charge		m	15	15	15	15
Additional charge		g/m	20	20	20	54
Indoor unit specifications						
Dimensions	LxDxH	mm	950x635x280	1370x740x280	1370x740x280	1370x740x280
Net weight		Kg	34	54	54	54
Sound power level	Max	dB(A)	65	65	65	67
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	38/33/29/25	44/38/36/30	44/38/36/30	45/40/34/29
Volume of air treated	P-Hi/Hi/Me/Lo	m³/h	1440/1140/900/600	2160/1680/1500/1140	2160/1680/1500/1140	2340/1920/1560/1200
Fan static pressure	Std/Max	Pa	35/200	60/200	60/200	60/200
Outdoor unit specifications						
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x340x750	880(+88)x340x750	970x370x845
Net weight		Kg	45	57	57	73
Sound power level	Max	dB(A)	67	67	68	73
Sound pressure level	Max	dB(A)	54	55	56	57
Volume of air treated	Max	m³/h	2520	3540	3780	4740
Operating range (outdoor temperature)	Cooling	°C	-15~+46			
	Heating	°C	-15~+20			
Accessories						
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RC-EXZ3A (touch + zone control) / RCH-E3 (simplified)			
IR remote control (KIT)			RCN-KIT4-E2			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (KIT)			LB-KIT2			
SUPERLINK II interface			SC-ADNA-E			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT SMART

CEILING R32

OPTIONAL

- Ideal for very large environments, thanks to the particularly wide air flow
- **30 m**
  Splitting distance
- Versatile installation thanks to drain pipe and refrigerant flexibility
- Polypropylene filter included

FDE 71-100-125 VH

FLEXIBLE PIPE ORIENTATION

Maximum flexibility: the refrigerant piping can be attached in 3 different positions (rear, top, right), as can that of the condensate drain (left, right).

Indoor unit model			FDE 71 VH	FDE 100 VH	FDE 100 VH	FDE 125 VH
Outdoor unit model			FDC 71 VNP-W	FDC 90 VNP-W	FDC 100 VNP-W	FDC 125 VNP-W
Type			DC-Inverter heat pump			
Nominal data						
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.50~7.30)	9.00 (2.10~9.50)	10.00 (2.10~10.20)	12.10 (5.00~12.10)
Rated power input (T=+35°C)		kW	2.41	2.38	3.00	3.88
Rated energy efficiency coefficient		EER[1]	2.95	3.78	3.33	3.12
Rated capacity (T=+7°C)	Heating	kW	7.10 (1.10~7.30)	9.00 (1.70~9.50)	10.00 (1.70~10.40)	12.10 (4.00~13.30)
Rated power input (T=+7°C)		kW	1.96	1.99	2.36	3.30
Rated energy performance coefficient		COP[1]	3.62	4.52	4.24	3.30
Seasonal data						
Design load (Pdesignc)	Cooling	kW	7.10	9.00	10.00	12.10
Seasonal energy efficiency index		SEER[2]	6.44	6.78	6.63	5.88
Seasonal energy efficiency class		626/2011[3]	A++	A++	A++	-
Annual energy consumption		kWh/y	386	465	529	-
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.70	5.80	6.00	7.90
Seasonal performance coefficient		SCOP[2]	4.32	4.46	4.24	4.13
Seasonal energy efficiency (ηs)		%	169.80	175.40	166.60	162.20
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+	-
Annual energy consumption		kWh/y	1849	1920	1984	-
Electrical data						
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz			
Power cable		Type	3 x 4 mm^2	3 x 4 mm^2	3 x 4 mm^2	3 x 4 mm^2
Connection wires between I.U. and O.U.		nb.	4	4	4	4
Nominal absorbed current	Cooling	A	10.90	10.60	12.80	16.30
	Heating	A	8.80	8.80	10.10	13.90
Maximum current		A	15.80	19.00	19.00	18.00
Max power input		kW	3.58	4.46	4.46	4.75
Refrigerant circuit data						
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	1.3	1.7	1.7	2.25
Tons of CO2 equivalent		t	0.878	1.148	1.148	1.519
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø6.35(1/4") - ø12.7(1/2")	ø6.35 (1/4") - ø15.88 (5/8")	ø6.35 (1/4") - ø15.88 (5/8")	ø9.52 (3/8") - ø15.88(5/8")
Splitting distance		m	30	30	30	30
Splitting level difference I.U./O.U.		m	20	20	20	20
Splitting distance without additional charge		m	15	15	15	15
Additional charge		g/m	20	20	20	54
Indoor unit specifications						
Dimensions	LxDxH	mm	1320x690x210	1620x690x250	1620x690x250	1620x690x250
Net weight		Kg	33	43	43	43
Sound power level	Max	dB(A)	60	64	64	64
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	47/41/37/32	48/43/38/34	48/43/38/34	48/45/40/35
Volume of air treated	P-Hi/Hi/Me/Lo	m^3/h	1200/960/780/600	1920/1560/1260/990	1920/1560/1260/990	1920/1740/1380/1020
Outdoor unit specifications						
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x340x750	880(+88)x340x750	970x370x845
Net weight		Kg	45	57	57	73
Sound power level	Max	dB(A)	67	67	68	73
Sound pressure level	Max	dB(A)	54	55	56	57
Volume of air treated	Max	m^3/h	2520	3540	3780	4740
Operating range (outdoor temperature)	Cooling	°C	-15~+46			
	Heating	°C	-15~+20			
Accessories						
Wired control			RC-E5 (LCD) / RC-EX3A (touch) / RCH-E3 (simplified)			
IR remote control (KIT)			RCN-E-E3			
Optional parts						
Wi-Fi module			INWFIMHI001R100			
Human sensor (KIT)			LB-E			
SUPERLINK II interface			SC-ADNA-E			

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012- N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MONOSPLIT SMART

COLUMN R32

FDF 71-100 VH

OPTIONAL

- Ideal for restaurants, shops and officies applications, without false ceiling or high ceilings
- **25 m** Splitting distance
- Wide and powerful air flow
- Easy transport and installation
- The wired control has a alarm function in case of gas leakage. The gas sensor is on the base of the unit

Indoor unit model			FDF 71 VH	FDF 100 VH	FDF 100 VH
Outdoor unit model			FDC 71 VNP-W	FDC 90 VNP-W	FDC 100 VNP-W
Type			DC-Inverter heat pump		
Control (included)			Wired control TOUCH with gas leak alarm		
Nominal data					
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.50~7.30)	9.00 (2.10~9.50)	10.00 (2.10~10.20)
Rated power input (T=+35°C)		kW	2.51	2.5	3.39
Rated energy efficiency coefficient		EER[1]	2.82	3.60	2.95
Rated capacity (T=+7°C)	Heating	kW	7.10 (1.10~7.30)	9.00 (1.70~9.50)	10.00 (1.70~10.40)
Rated power input (T=+7°C)		kW	2.02	2.24	2.71
Rated energy performance coefficient		COP[1]	3.51	4.02	3.69
Seasonal data					
Design load (Pdesignc)	Cooling	kW	7.10	9.00	10.00
Seasonal energy efficiency index		SEER[2]	5.85	5.91	5.43
Seasonal energy efficiency class		626/2011[3]	A+	A+	A
Annual energy consumption		kWh/y	425	535	645
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.70	6.00	6.40
Seasonal performance coefficient		SCOP[2]	3.91	4.24	3.94
Seasonal energy efficiency (ηs)		%	153.40	166.60	154.60
Seasonal energy efficiency class		626/2011[3]	A	A+	A
Annual energy consumption		kWh/y	2039	1981	2274
Electrical data					
Power supply	Outdoor unit	Ph-V-Hz	1~220~240V-50Hz		
Power cable		Type	3 x 4 mm2	3 x 4 mm2	3 x 4 mm2
Connection wires between I.U. and O.U.		nb.	4	4	4
Nominal absorbed current	Cooling	A	11.10	11.10	15.00
	Heating	A	9.10	9.90	12.00
Maximum current		A	15.80	19.00	19.00
Max power input		kW	3.58	4.46	4.46
Refrigerant circuit data					
Refrigerant[4]		Type (GWP)	R32 (675)		
Quantity of refrigerant pre-charge		Kg	1.3	1.7	1.7
Tons of CO2 equivalent		t	0.878	1.148	1.148
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø6.35(1/4") - ø12.7(1/2")	ø6.35 (1/4") - ø15.88 (5/8")	ø6.35 (1/4") - ø15.88 (5/8")
Splitting distance		m	26	25	25
Splitting level difference I.U./O.U.		m	20	20	20
Splitting distance without additional charge		m	11	10	10
Additional charge		g/m	20	20	20
Indoor unit specifications					
Dimensions	LxDxH	mm	600x329x1850	600x329x1850	600x329x1850
Net weight		Kg	47	49	49
Sound power level	Max	dB(A)	55	65	65
Sound pressure level	P-Hi/Hi/Me/Lo	dB(A)	42/39/35/33	53/51/49/44	53/51/49/44
Volume of air treated	P-Hi/Hi/Me/Lo	m3/h	1080/960/840/720	1620/1560/1380/1140	1620/1560/1380/1140
Refrigerant gas leak detector			Included		
Outdoor unit specifications					
Dimensions	LxDxH	mm	800(+71)x290x640	800(+71)x340x750	880(+88)x340x750
Net weight		Kg	45	57	57
Sound power level	Max	dB(A)	67	67	68
Sound pressure level	Max	dB(A)	54	55	56
Volume of air treated	Max	m3/h	2520	3540	3780
Operating range (outdoor temperature)	Cooling	°C	-15~+46		
	Heating	°C	-15~+20		
Optional parts					
Wi-Fi module			INWFIMHI001R100		
Human sensor (KIT)			LB-KIT2		
SUPERLINK II interface			SC-ADNA-E		
IR remote control (KIT)			RCN-KIT4-E2		

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012- N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

MITSUBISHI HEAVY INDUSTRIES

MONOSPLIT SMART

WALL R32

SRK 71-100 ZR-WF

INCLUDED

- **339 mm**
  Height
- **30 m**
  Splitting distance
- **25 dB(A)**
  Sound power level (7.10 kW), maximum quiet
- Antibacterial treatment on fan
- The powerful air flow is realized with Jet technology
- Ideal for large living rooms and shops
- Equipped with dust and photocatalytic filters

Indoor unit model			SRK 71 ZR-WF	SRK 100 ZR-WF
Outdoor unit model			**FDC 71 VNP-W**	**FDC 100 VNP-W**
Type			DC-Inverter heat pump	
Control (included)			Remote control	
Nominal data				
Rated capacity (T=+35°C)	Cooling	kW	7.10 (1.50~7.30)	9.60 (2.10~9.60)
Rated power input (T=+35°C)		kW	2.36	3.10
Rated energy efficiency coefficient		EER[1]	3.01	3.10
Rated capacity (T=+7°C)	Heating	kW	7.10 (1.10~7.30)	10.00 (1.70~10.40)
Rated power input (T=+7°C)		kW	1.88	2.80
Rated energy performance coefficient		COP[1]	3.78	3.57
Seasonal data				
Design load (Pdesignc)	Cooling	kW	7.10	9.60
Seasonal energy efficiency index		SEER[2]	6.75	6.11
Seasonal energy efficiency class		626/2011[3]	A++	A++
Annual energy consumption		kWh/y	369	551
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.70	6.00
Seasonal performance coefficient		SCOP[2]	4.55	4.14
Seasonal energy efficiency (ηs)		%	179.00	162.60
Seasonal energy efficiency class		626/2011[3]	A+	A+
Annual energy consumption		kWh/y	1756	2028
Electrical data				
Power supply	Outdoor unit	Ph-V-Hz	1-220~240V-50Hz	
Power cable		Type	3 x 4 mm2	3 x 4 mm2
Connection wires between I.U. and O.U.		nb.	4	4
Nominal absorbed current	Cooling	A	10.50	13.20
	Heating	A	8.40	11.90
Maximum current		A	15.80	19.00
Max power input		kW	3.58	4.46
Refrigerant circuit data				
Refrigerant[4]		Type (GWP)	R32 (675)	
Quantity of refrigerant pre-charge		Kg	1.3	1.7
Tons of CO2 equivalent		t	0.878	1.148
Diameter of refrigerant pipings liquid/gas		mm (inches)	ø6.35(1/4") - ø12.7(1/2")	ø6.35 (1/4") - ø15.88 (5/8")
Splitting distance		m	30	30
Max splitting level difference I.U./O.U.		m	20	20
Splitting distance without additional charge		m	15	15
Additional charge		g/m	20	20
Indoor unit specifications				
Dimensions	LxDxH	mm	1197x262x339	1197x262x339
Net weight		Kg	15.5	16.5
Sound power level	Max	dB(A)	60	63
Sound pressure level (Hi/Mi/Lo/ULo)	Cooling	dB(A)	44/41/37/25	48/45/40/27
	Heating		46/39/35/28	48/43/38/30
Volume of air treated (Hi/Mi/Lo/ULo)	Cooling	m3/h	1230/1116/972/624	1470/1278/1056/624
	Heating		1500/1188/1038/798	1650/1392/1146/816
Outdoor unit specifications				
Dimensions	LxDxH	mm	800(+71)x290x640	880(+88)x340x750
Net weight		Kg	45	57
Sound power level	Max	dB(A)	67	68
Sound pressure level	Max	dB(A)	54	56
Volume of air treated	Max	m3/h	2520	3780
Operating range (outdoor temperature)	Cooling	°C	-15~+46	
	Heating	°C	-15~+20	
Optional parts				
Wi-Fi module			Included	
Interface for home automation and wired control connection[5]			SC-BIKN2-E	

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 5. Home automation and optional protocols with dedicated interfaces: KNX, Modbus, BACnet.

MULTISPLIT HYPER

TWIN / TRIPLE COMBINATIONS R32

Model	Indoor unit		FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZSX-WF	FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	SRK~ZSX-WF
	Combinations	TWIN	40+40	40+40	40+40	40+40							
	Outdoor unit		FDC 71 VNX-W										
Rated capacity (T=35°C)	Cooling	kW	7.10	7.10	7.10	7.10							
Rated power input (T=35°C)		kW	1.61	1.73	1.76	1.76							
Rated energy efficiency coefficient		EER[1]	4.40	4.12	4.03	4.03							
Rated capacity (T=7°C)	Heating	kW	8.00	8.00	8.00	8.00							
Rated power input (T=7°C)		kW	1.83	1.83	1.80	2.10							
Rated energy efficiency coefficient		COP[1]	4.38	4.37	4.44	3.81							
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	5.80	6.00	6.00	6.00							
Seasonal performance coefficient		SCOP[2]	4.66	4.40	4.15	4.49							
Seasonal energy efficiency (ηs)		%	183.40	173.00	163.00	176.60							
Seasonal energy efficiency class		626/2011[3]	A++	A+	A+	A+							
Annual energy consumption		kWh/y	1742	1911	2025	1870							
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)							
Quantity of refrigerant pre-charge		Kg	2.75	4	2.75	2.75							
Tons of CO2 equivalent		t	1.860	2.700	1.860	1.860							
Installation accessories			DIS-WA1G										
Controls			RC-EX3A / RC-E5										

Model	Indoor unit		FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZSX-WF	FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	SRK~ZSX-WF
	Combinations	TWIN	50+50	50+50	50+50	50+50		50+50					
	Outdoor unit		FDC 100 VSX-W					FDC 100 VSX-W					
Rated capacity (T=35°C)	Cooling	kW	10.00	10.00	10.00	10.00		10.00					
Rated power input (T=35°C)		kW	2.30	2.60	2.66	2.48		2.47					
Rated energy efficiency coefficient		EER[1]	4.35	3.84	3.76	4.04		4.05					
Rated capacity (T=7°C)	Heating	kW	11.20	11.20	11.20	11.20		11.20					
Rated power input (T=7°C)		kW	2.64	3.04	2.96	2.88		2.60					
Rated energy efficiency coefficient		COP[1]	4.25	3.69	3.79	3.89		4.31					
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	11.20	11.20	10.00	9.80		11.20					
Seasonal performance coefficient		SCOP[2]	4.24	4.16	3.88	4.00		4.25					
Seasonal energy efficiency (ηs)		%	166.60	163.40	152.20	157.00		167.00					
Seasonal energy efficiency class		626/2011[3]	A+	A+	A	A+		A+					
Annual energy consumption		kWh/y	3700	3772	3605	3434		3691					
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)		R32 (675)					
Quantity of refrigerant pre-charge		Kg	4	4	4	4		4					
Tons of CO2 equivalent		t	2.700	2.700	2.700	2.700		2.700					
Installation accessories			DIS-WA1G					DIS-WA1G					
Controls			RC-EX3A / RC-E5					RC-EX3A / RC-E5					
Communication interface			-					2 x SC-BIKN2-E					

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

BRANCH PIPE KIT

DIS-WA1G	DIS-WB1G	DIS-TA1G	DIS-TB1G
Gas side	Gas side	Gas side	Gas side
Liquid side	Liquid side	Liquid side	Liquid side
Reducer	Reducer	Reducer	

MULTISPLIT HYPER

COMBINATIONS TWIN / TRIPLE R32

Model	Indoor unit		FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZSX-WF	FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	SRK~ZSX-WF
	Combinations	TWIN	60+60	60+60	60+60	60+60		60+60					
	Outdoor unit		FDC 125 VSX-W					FDC 125 VSX-W					
Rated capacity (T=35°C)	Cooling	kW	12.50	12.50	12.50	12.50		12.50					
Rated power input (T=35°C)		kW	2.98	3.67	3.26	3.49		3.43					
Rated energy efficiency coefficient		EER[1]	4.19	3.41	3.83	3.58		3.64					
Rated capacity (T=7°C)	Heating	kW	14.00	14.00	14.00	14.00		14.00					
Rated power input (T=7°C)		kW	3.03	4.05	3.26	3.27		3.42					
Rated energy efficiency coefficient		COP[1]	4.62	3.45	4.30	4.29		4.09					
Seasonal performance coefficient	Heating (average climate conditions)	SCOP[2]	4.92	3.93	4.60	4.79		4.36					
Seasonal energy efficiency (ηs)		%	193.90	154.30	181.10	188.50		171.40					
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)		R32 (675)					
Quantity of refrigerant pre-charge		Kg	4	4	4	4		4					
Tons of CO2 equivalent		t	2.700	2.700	2.700	2.700		2.700					
Installation accessories			DIS-WA1G					DIS-WA1G					
Controls			RC-EX3A / RC-E5					RC-EX3A / RC-E5					
Communication interface			-					2 x SC-BIKN2-E					

Model	Indoor unit		FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZSX-WF	FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	SRK~ZSX-WF
	Combinations	TWIN	71+71		71+71	71+71	71+71						
		TRIPLE							50+50+50	50+50+50	50+50+50	50+50+50	50+50+50
	Outdoor unit		FDC 140 VSX-W		FDC 140 VSX-W				FDC 140 VSX-W				
Rated capacity (T=35°C)	Cooling	kW	14.00		14.00	14.00	14.00		14.00	14.00	14.00	14.00	14.00
Rated power input (T=35°C)		kW	3.44		3.97	4.16	3.78		3.48	3.96	4.03	3.72	4.03
Rated energy efficiency coefficient		EER[1]	4.07		3.53	3.36	3.71		4.02	3.54	3.48	3.76	3.48
Rated capacity (T=7°C)	Heating	kW	16.00		16.00	16.00	16.00		16.00	16.00	16.00	16.00	16.00
Rated power input (T=7°C)		kW	3.64		3.91	3.97	4.27		3.74	4.34	4.04	4.11	4.04
Rated energy efficiency coefficient		COP[1]	4.40		4.10	4.03	3.75		4.28	3.69	3.96	3.89	3.96
Seasonal performance coefficient	Heating (average climate conditions)	SCOP[2]	4.94		4.68	4.60	4.20		4.76	4.66	4.52	4.33	4.65
Seasonal energy efficiency (ηs)		%	194.50		184.00	180.90	165.00		187.50	183.50	177.60	170.20	183.1
Refrigerant[4]		Type (GWP)	R32 (675)		R32 (675)	R32 (675)	R32 (675)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity of refrigerant pre-charge		Kg	4		4	4	4		4	4	4	4	4
Tons of CO2 equivalent		t	2.700		2.700	2.700	2.700		2.700	2.700	2.700	2.700	2.700
Installation accessories			DIS-WA1G		DIS-WA1G				DIS-TA1G				
Controls			RC-EX3A / RC-E5		RC-EX3A / RC-E5				RC-EX3A / RC-E5				
Communication interface			-		-				-				3 x SC-BIKN2-E

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

BRANCH PIPE KIT

DIS-WA1G	DIS-WB1G	DIS-TA1G	DIS-TB1G
Gas side	Gas side	Gas side	Gas side
Liquid side	Liquid side	Liquid side	Liquid side
Reducer	Reducer	Reducer	

MULTISPLIT HYPER

COMBINATIONS V MULTI R32 FOR FDT AND FDE



Model					
	Indoor unit		FDE~VH / FDT~VH		
	Combinations V-Multi		40+40		
	Outdoor unit		FDC 71 VNX-W		
Rated capacity (T=35°C)	Cooling	kW	7.10		
Rated power input (T=35°C)		kW	1.63		
Rated energy efficiency coefficient		EER[1]	4.36		
Rated capacity (T=7°C)	Heating	kW	8.00		
Rated power input (T=7°C)		kW	1.85		
Rated energy efficiency coefficient		COP[1]	4.32		
Refrigerant[4]		Type (GWP)	R32 (675)		
Quantity of refrigerant pre-charge		Kg	2.75		
Tons of CO2 equivalent		t	1.860		
Installation accessories			DIS-WA1G		
Controls			RC-EX3A / RC-E5		

Model					
	Indoor unit		FDE~VH / FDT~VH		
	Combinations V-Multi		50+50		
	Outdoor unit		FDC 100 VSX-W		
Rated capacity (T=35°C)	Cooling	kW	10.00		
Rated power input (T=35°C)		kW	2.47		
Rated energy efficiency coefficient		EER[1]	4.05		
Rated capacity (T=7°C)	Heating	kW	11.20		
Rated power input (T=7°C)		kW	2.87		
Rated energy efficiency coefficient		COP[1]	3.90		
Refrigerant[4]		Type (GWP)	R32 (675)		
Quantity of refrigerant pre-charge		Kg	4		
Tons of CO2 equivalent		t	2.700		
Installation accessories			DIS-WA1G		
Controls			RC-EX3A / RC-E5		

Model					
	Indoor unit		FDE~VH / FDT~VH		
	Combinations V-Multi		60+60	50+71	
	Outdoor unit		FDC 125 VSX-W		
Rated capacity (T=35°C)	Cooling	kW	12.50	12.50	
Rated power input (T=35°C)		kW	3.48	3.45	
Rated energy efficiency coefficient		EER[1]	3.59	3.62	
Rated capacity (T=7°C)	Heating	kW	14.00	14.00	
Rated power input (T=7°C)		kW	3.26	3.24	
Rated energy efficiency coefficient		COP[1]	4.29	4.32	
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)	
Quantity of refrigerant pre-charge		Kg	4	4	
Tons of CO2 equivalent		t	2.700	2.700	
Installation accessories			DIS-WA1G		
Controls			RC-EX3A / RC-E5		

Model					
	Indoor unit		FDE~VH / FDT~VH		FDE~VH / FDT~VH
	Combinations V-Multi		71+71		50+50+50
	Outdoor unit		FDC 140 VSX-W		FDC 140 VSX-W
Rated capacity (T=35°C)	Cooling	kW	14.00		14.00
Rated power input (T=35°C)		kW	4.16		4.13
Rated energy efficiency coefficient		EER[1]	3.37		3.39
Rated capacity (T=7°C)	Heating	kW	16.00		16.00
Rated power input (T=7°C)		kW	4.12		4.09
Rated energy efficiency coefficient		COP[1]	3.88		3.91
Refrigerant[4]		Type (GWP)	R32 (675)		R32 (675)
Quantity of refrigerant pre-charge		Kg	4		4
Tons of CO2 equivalent		t	2.700		2.700
Installation accessories			DIS-WA1G		DIS-TA1G
Controls			RC-EX3A / RC-E5		RC-EX3A / RC-E5

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

BRANCH PIPE KIT

DIS-WA1G	DIS-WB1G	DIS-TA1G	DIS-TB1G
Gas side	Gas side	Gas side	Gas side
Liquid side	Liquid side	Liquid side	Liquid side
Reducer	Reducer	Reducer	

MULTISPLIT SUPER

COMBINATIONS TWIN / TRIPLE / DOUBLE TWIN R32

Model	Indoor unit		FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZSX-WF	FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	SRK~ZSX-W
	Combinations	TWIN	50+50	50+50	50+50	50+50		50+50					
	Outdoor unit		FDC 100 VN(S)A-W					FDC 100 VN(S)A-W					
Rated capacity (T=35°C)	Cooling	kW	10.00	10.00	10.00	10.00		10.00					
Rated power input (T=35°C)		kW	2.82	3.15	3.25	3.12		2.89					
Rated energy efficiency coefficient		EER[1]	3.55	3.17	3.08	3.21		3.46					
Rated capacity (T=7°C)	Heating	kW	11.20	11.20	11.20	11.20		11.20					
Rated power input (T=7°C)		kW	2.73	3.05	3.04	2.99		2.61					
Rated energy efficiency coefficient		COP[1]	4.11	3.67	3.68	3.75		4.29					
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	8.50	8.50	8.50	8.50		8.50					
Seasonal performance coefficient		SCOP[2]	4.47	4.38	4.00	4.10		4.47					
Seasonal energy efficiency (ηs)		%	175.80	172.20	157.00	161.00		175.80					
Seasonal energy efficiency class		626/2011[3]	A+	A+	A+	A+		A+					
Annual energy consumption		kWh/y	2665	2715	2974	2906		2661					
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)		R32 (675)					
Quantity of refrigerant pre-charge		Kg	3.30	3.30	3.30	3.30		3.30					
Tons of CO2 equivalent		t	2.228	2.228	2.228	2.228		2.228					
Installation accessories			DIS-WA1G					DIS-WA1G					
Controls			RC-EX3A / RC-E5					RC-EX3A / RC-E5					
Communication interface			-					2 x SC-BIKN2-E					

Model	Indoor unit		FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZSX-WF	FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	SRK~ZSX-WF
	Combinations	TWIN	60+60	60+60	60+60	60+60		60+60					
	Outdoor unit		FDC 125 VN(S)A-W					FDC 125 VN(S)A-W					
Rated capacity (T=35°C)	Cooling	kW	12.50	12.50	12.50	12.50		12.50					
Rated power input (T=35°C)		kW	3.79	4.90	4.53	4.16		4.54					
Rated energy efficiency coefficient		EER[1]	3.30	2.55	2.76	3.00		2.76					
Rated capacity (T=7°C)	Heating	kW	14.00	14.00	14.00	14.00		14.00					
Rated power input (T=7°C)		kW	3.31	4.30	3.52	3.54		3.58					
Rated energy efficiency coefficient		COP[1]	4.23	3.26	3.98	3.95		3.91					
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	9.80	9.80	9.80	9.80		9.80					
Seasonal performance coefficient		SCOP[2]	5.20	4.36	4.13	5.05		4.89					
Seasonal energy efficiency (ηs)		%	205.10	171.30	162.10	198.80		192.50					
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)		R32 (675)					
Quantity of refrigerant pre-charge		Kg	3.30	3.30	3.30	3.30		3.30					
Tons of CO2 equivalent		t	2.228	2.228	2.228	2.228		2.228					
Installation accessories			DIS-WA1G					DIS-WA1G					
Controls			RC-EX3A / RC-E5					RC-EX3A / RC-E5					
Communication interface			-					2 x SC-BIKN2-E					

Model	Indoor unit		FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZR-WF	FDT~VH	FDTC~VH	FDUM~VH	FDE~VH	SRK~ZSX-WF
	Combinations	TWIN	71+71		71+71	71+71	71+71	71+71					
		TRIPLE							50+50+50	50+50+50	50+50+50	50+50+50	50+50+50
	Outdoor unit		FDC 140 VN(S)A-W		FDC 140 VN(S)A-W				FDC 140 VN(S)A-W				
Rated capacity (T=35°C)	Cooling	kW	13.60		13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.60	13.60
Rated power input (T=35°C)		kW	4.22		5.02	4.74	4.46	4.26	4.22	4.75	5.02	4.74	4.26
Rated energy efficiency coefficient		EER[1]	3.22		2.71	2.87	3.05	3.19	3.22	2.86	2.71	2.87	3.19
Rated capacity (T=7°C)	Heating	kW	15.50		15.50	16.00	15.50	16.00	15.50	15.50	15.50	15.50	15.50
Rated power input (T=7°C)		kW	3.57		4.20	4.21	4.49	4.03	3.57	4.60	4.20	4.21	3.74
Rated energy efficiency coefficient		COP[1]	4.34		3.69	3.68	3.46	3.85	3.88	3.37	3.69	3.68	4.14
Design load (Pdesignh) @ -10°C	Heating (average climate conditions)	kW	10.50		10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Seasonal performance coefficient		SCOP[2]	5.12		5.22	4.80	4.98	5.31	5.12	4.98	5.22	4.80	5.57
Seasonal energy efficiency (ηs)		%	201.60		205.70	188.80	196.10	209.50	201.60	196.00	205.70	188.80	219.60
Refrigerant[4]		Type (GWP)	R32 (675)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity of refrigerant pre-charge		Kg	3.30		3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
Tons of CO2 equivalent		t	2.228		2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228	2.228
Installation accessories			DIS-WA1G		DIS-WA1G				DIS-TA1G				
Controls			RC-EX3A / RC-E5		RC-EX3A / RC-E5				RC-EX3A / RC-E5				
Communication interface			-		-			2 x SC-BIKN2-E	-				3 x SC-BIKN2-E

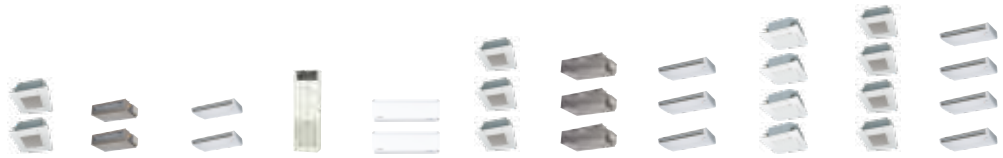
1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

BRANCH PIPE KIT

DIS-WA1G	DIS-WB1G	DIS-TA1G	DIS-TB1G
Gas side	Gas side	Gas side	Gas side
Liquid side	Liquid side	Liquid side	Liquid side
Reducer	Reducer	Reducer	

MULTISPLIT SUPER

COMBINATIONS TWIN / TRIPLE / DOUBLE TWIN R32



Model	Indoor unit			FDT~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZR-WF	FDT~VH	FDUM~VH	FDE~VH	FDT~VH	FDTC~VH	FDE~VH
	Combinations		TWIN	100+100	100+100	100+100	100+100	100+100						
			TRIPLE						71+71+71	71+71+71	71+71+71			
			D. TWIN									50+50+50+50	50+50+50+50	50+50+50+50
	Outdoor unit			FDC 200 VSA-W	FDC 200 VSA-W				FDC2 00 VSA-W	FDC 200 VSA-W		FDC 200 VSA-W		FDC 200 VSA-W
Rated capacity (T=35°C)			kW	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Rated power input (T=35°C)	Cooling		kW	5.48	6.58	6.29	6.71	7.46	5.56	6.58	6.29	5.78	6.92	6.29
Rated energy efficiency coefficient			EER[1]	3.65	3.04	3.18	2.98	2.68	3.60	3.04	3.18	3.46	2.89	3.18
Rated capacity (T=7°C)			kW	22.40	22.40	22.40	22.40	22.40	22.40	22.40	22.40	22.40	22.40	22.40
Rated power input (T=7°C)	Heating		kW	5.27	5.59	5.66	6.06	6.87	5.27	5.59	5.66	5.8	6.36	5.66
Rated energy efficiency coefficient			COP[1]	4.25	4.01	3.96	3.69	3.26	4.25	4.01	3.96	3.86	3.52	3.96
Seasonal performance coefficient	Heating (average climate conditions)		SCOP[2]	4.55	4.65	4.53	4.73	4.36	4.55	4.65	4.53	4.37	4.23	4.53
Seasonal energy efficiency (ηs)			%	179.00	182.80	178.00	186.00	171.50	179.00	182.80	178.00	171.90	166.10	178.10
Refrigerant[4]			Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity of refrigerant pre-charge			Kg	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
Tons of CO2 equivalent			t	2.903	2.903	2.903	2.903	2.903	2.903	2.903	2.903	2.903	2.903	2.903
Installation accessories				DIS-WB1G	DIS-WB1G				DIS-TB1G	DIS-TB1G		2 x DIS-WA1G + 1 x DIS-WB1G		2 x DIS-WA1G + 1 x DIS-WB1G
Controls				RC-EX3A / RC-E5	RC-EX3A / RC-E5				RC-EX3A / RC-E5	RC-EX3A / RC-E5		RC-EX3A / RC-E5		RC-EX3A / RC-E5
Communication interface				-	-			2 x SC-BIKN2-E	-			-		-

Model	Indoor unit			FDT~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZR-WF	FDT~VH	FDUM~VH	FDE~VH	FDT~VH	FDTC~VH	FDE~VH
	Combinations		TWIN	125+125	125+125	125+125	125+125							
			TRIPLE											
			D. TWIN									60+60+60+60	60+60+60+60	60+60+60+60
	Outdoor unit			FDC 250 VSA-W	FDC 250 VSA-W							FDC 250 VSA-W		FDC 250 VSA-W
Rated capacity (T=35°C)			kW	25.00	25.00	25.00	25.00					25.00	25.00	25.00
Rated power input (T=35°C)	Cooling		kW	8.20	8.74	8.20	9.54					7.30	9.43	8.04
Rated energy efficiency coefficient			EER[1]	3.05	2.86	3.05	2.62					3.42	2.65	3.11
Rated capacity (T=7°C)			kW	28.00	28.00	28.00	28.00					28.00	28.00	28.00
Rated power input (T=7°C)	Heating		kW	7.37	7.90	7.93	8.37					6.80	8.75	7.32
Rated energy efficiency coefficient			COP[1]	3.80	3.54	3.53	3.35					4.12	3.20	3.83
Seasonal performance coefficient	Heating (average climate conditions)		SCOP[2]	4.35	4.40	4.25	4.25					4.72	4.09	4.55
Seasonal energy efficiency (ηs)			%	171.10	172.90	167.00	167.00					185.60	160.40	179.10
Refrigerant[4]			Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)					R32 (675)	R32 (675)	R32 (675)
Quantity of refrigerant pre-charge			Kg	5.10	5.10	5.10	5.10					5.10	5.10	5.10
Tons of CO2 equivalent			t	3.443	3.443	3.443	3.443					3.443	3.443	3.443
Installation accessories				DIS-WB1G	DIS-WB1G							2 x DIS-WA1G + 1 x DIS-WB1G		2 x DIS-WA1G + 1 x DIS-WB1G
Controls				RC-EX3A / RC-E5	RC-EX3A / RC-E5							RC-EX3A / RC-E5		RC-EX3A / RC-E5

Model	Indoor unit			FDT~VH	FDUM~VH	FDE~VH	FDF~VH	SRK~ZR-WF	FDT~VH	FDUM~VH	FDE~VH	FDT~VH	FDTC~VH	FDE~VH
	Combinations		TWIN	140+140	140+140	140+140	140+140							
			TRIPLE											
			D. TWIN									71+71+71+71		71+71+71+71
	Outdoor unit			FDC 280 VSA-W	FDC 280 VSA-W							FDC 280 VSA-W		FDC 280 VSA-W
Rated capacity (T=35°C)			kW	27.00	27.00	27.00	27.00					27.00		27.00
Rated power input (T=35°C)	Cooling		kW	9.11	10.05	9.31	10.93					7.77		9.15
Rated energy efficiency coefficient			EER[1]	2.96	2.69	2.90	2.47					3.47		2.95
Rated capacity (T=7°C)			kW	30.00	30.00	30.00	30.00					30.00		30.00
Rated power input (T=7°C)	Heating		kW	8.95	8.47	8.98	9.47					8.60		8.98
Rated energy efficiency coefficient			COP[1]	3.35	3.54	3.34	3.17					3.49		3.34
Seasonal performance coefficient	Heating (average climate conditions)		SCOP[2]	4.22	4.23	3.95	4.13					4.05		4.11
Seasonal energy efficiency (ηs)			%	165.60	166.00	154.80	162.20					158.90		161.30
Refrigerant[4]			Type (GWP)	R32 (675)	R32 (675)	R32 (675)	R32 (675)					R32 (675)		R32 (675)
Quantity of refrigerant pre-charge			Kg	5.60	5.60	5.60	5.60					5.60		5.60
Tons of CO2 equivalent			t	3.780	3.780	3.780	3.780					3.780		3.780
Installation accessories				DIS-WB1G	DIS-WB1G							2 x DIS-WA1G + 1 x DIS-WB1G		2 x DIS-WA1G + 1 x DIS-WB1G
Controls				RC-EX3A / RC-E5	RC-EX3A / RC-E5							RC-EX3A / RC-E5		RC-EX3A / RC-E5

1. Value measured according to the harmonised standard EN 14511. 2. EU Regulation No. 206/2012 - N.2281/2016 - Value measured according to the harmonised standard EN 14825. 3. Delegated Regulation (EU) No 626/2011 regarding the new energy labelling of air conditioners. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

BRANCH PIPE KIT

DIS-WA1G	DIS-WB1G	DIS-TA1G	DIS-TB1G
Gas side	Gas side	Gas side	Gas side
Liquid side	Liquid side	Liquid side	Liquid side
Reducer	Reducer	Reducer	

MITSUBISHI HEAVY INDUSTRIES

MULTISPLIT SUPER

COMBINATIONS V MULTI R32 FOR FDT AND FDE

Model	Indoor unit		FDE~VH / FDT~VH			
	Combinations	V-Multi	50+50			
	Outdoor unit		FDC 100 VN(S)A-W			
Rated capacity (T=35°C)	Cooling	kW	10.00			
Rated power input (T=35°C)		kW	3.11			
Rated energy efficiency coefficient		EER[1]	3.22			
Rated capacity (T=7°C)	Heating	kW	11.20			
Rated power input (T=7°C)		kW	2.98			
Rated energy efficiency coefficient		COP[1]	3.76			
Refrigerant[4]		Type (GWP)	R32 (675)			
Quantity of refrigerant pre-charge		Kg	3.30			
Tons of CO2 equivalent		t	2.228			
Installation accessories			DIS-WA1G			
Controls			RC-EX3A / RC-E5			

Model	Indoor unit		FDE~VH / FDT~VH			
	Combinations	V-Multi	60+60	50+71		
	Outdoor unit		FDC 125 VN(S)A-W			
Rated capacity (T=35°C)	Cooling	kW	12.50	12.50		
Rated power input (T=35°C)		kW	4.15	4.13		
Rated energy efficiency coefficient		EER[1]	3.01	3.02		
Rated capacity (T=7°C)	Heating	kW	14.00	14.00		
Rated power input (T=7°C)		kW	3.53	3.51		
Rated energy efficiency coefficient		COP[1]	3.97	3.99		
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)		
Quantity of refrigerant pre-charge		Kg	3.30	3.30		
Tons of CO2 equivalent		t	2.228	2.228		
Installation accessories			DIS-WA1G			
Controls			RC-EX3A / RC-E5			

Model	Indoor unit		FDE~VH / FDT~VH		FDE~VH / FDT~VH		
	Combinations	V-Multi	71+71		50+50+50		
	Outdoor unit		FDC 140 VN(S)A-W		FDC 140 VN(S)A-W		
Rated capacity (T=35°C)	Cooling	kW	13.60		13.60		
Rated power input (T=35°C)		kW	4.75		4.73		
Rated energy efficiency coefficient		EER[1]	2.86		2.88		
Rated capacity (T=7°C)	Heating	kW	15.50		15.50		
Rated power input (T=7°C)		kW	4.22		4.20		
Rated energy efficiency coefficient		COP[1]	3.67		3.69		
Refrigerant[4]		Type (GWP)	R32 (675)		R32 (675)		
Quantity of refrigerant pre-charge		Kg	3.30		3.30		
Tons of CO2 equivalent		t	2.228		2.228		
Installation accessories			DIS-WA1G		DIS-TA1G		
Controls			RC-EX3A / RC-E5		RC-EX3A / RC-E5		

1. Value measured according to the harmonised standard EN 14511. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

BRANCH PIPE KIT

DIS-WA1G	DIS-WB1G	DIS-TA1G	DIS-TB1G
Gas side	Gas side	Gas side	Gas side
Liquid side	Liquid side	Liquid side	Liquid side
Reducer	Reducer	Reducer	

MULTISPLIT SUPER

COMBINATIONS V MULTI R32 FOR FDT AND FDE

Model	Indoor unit		FDE~VH / FDT~VH				FDE~VH / FDT~VH
	Combinations	V-Multi	100+100	71+125	71+71+71		50+50+50+50
	Outdoor unit		FDC 200 VSA-W				FDC 200 VSA-W
Rated capacity (T=35°C)		kW	20.00	20.00	20.00		20.00
Rated power input (T=35°C)	Cooling	kW	5.48	5.44	5.46		5.38
Rated energy efficiency coefficient		EER[1]	3.65	3.68	3.66		3.72
Rated capacity (T=7°C)		kW	22.40	22.40	22.40		22.40
Rated power input (T=7°C)	Heating	kW	5.27	5.23	5.25		5.17
Rated energy efficiency coefficient		COP[1]	4.25	4.28	4.27		4.33
Refrigerant[4]		Type (GWP)	R32 (675)	R32 (675)	R32 (675)		R32 (675)
Quantity of refrigerant pre-charge		Kg	4.30	4.30	4.30		4.30
Tons of CO2 equivalent		t	2.903	2.903	2.903		2.903
Installation accessories			DIS-WB1G		DIS-TB1G		2 x DIS-WA1G + 1 x DIS-WB1G
Controls			RC-EX3A / RC-E5				RC-EX3A / RC-E5

Model	Indoor unit		FDE~VH / FDT~VH		FDE~VH / FDT~VH		
	Combinations	V-Multi	125+125		60+60+125	71+71+100	60+60+60+60
	Outdoor unit		FDC 250 VSA-W		FDC 250 VSA-W		
Rated capacity (T=35°C)		kW	25.00		25.00	25.00	25.00
Rated power input (T=35°C)	Cooling	kW	8.20		8.20	8.21	8.20
Rated energy efficiency coefficient		EER[1]	3.05		3.05	3.05	3.05
Rated capacity (T=7°C)		kW	28.00		28.00	28.00	28.00
Rated power input (T=7°C)	Heating	kW	7.37		7.37	7.38	7.37
Rated energy efficiency coefficient		COP[1]	3.80		3.80	3.79	3.80
Refrigerant[4]		Type (GWP)	R32 (675)		R32 (675)	R32 (675)	R32 (675)
Quantity of refrigerant pre-charge		Kg	5.10		5.10	5.10	5.10
Tons of CO2 equivalent		t	3.443		3.443	3.443	3.443
Installation accessories			DIS-WB1G		DIS-TB1G		2 x DIS-WA1G + 1 x DIS-WB1G
Controls			RC-EX3A / RC-E5		RC-EX3A / RC-E5		

Model	Indoor unit		FDE~VH / FDT~VH		FDE~VH / FDT~VH		FDE~VH / FDT~VH
	Combinations	V-Multi	140+140		71+71+140		71+71+71+71
	Outdoor unit		FDC 280 VSA-W		FDC 280 VSA-W		FDC 280 VSA-W
Rated capacity (T=35°C)		kW	27.00		27.00		27.00
Rated power input (T=35°C)	Cooling	kW	9.11		9.13		9.15
Rated energy efficiency coefficient		EER[1]	2.96		2.96		2.95
Rated capacity (T=7°C)		kW	30.00		30.00		30.00
Rated power input (T=7°C)	Heating	kW	8.95		8.97		8.99
Rated energy efficiency coefficient		COP[1]	3.35		3.34		3.34
Refrigerant[4]		Type (GWP)	R32 (675)		R32 (675)		R32 (675)
Quantity of refrigerant pre-charge		Kg	5.60		5.60		5.60
Tons of CO2 equivalent		t	3.780		3.780		3.780
Installation accessories			DIS-WB1G		DIS-TB1G		2 x DIS-WA1G + 1 x DIS-WB1G
Controls			RC-EX3A / RC-E5		RC-EX3A / RC-E5		RC-EX3A / RC-E5

1. Value measured according to the harmonised standard EN 14511. 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

BRANCH PIPE KIT

DIS-WA1G	DIS-WB1G	DIS-TA1G	DIS-TB1G
Gas side	Gas side	Gas side	Gas side
Liquid side	Liquid side	Liquid side	Liquid side
Reducer	Reducer	Reducer	

MITSUBISHI HEAVY INDUSTRIES

ENTHALPY HEAT RECOVERY UNIT

SAF 150-1000E7

During winter, these recover some of the energy contained in the renewal air expelled from the rooms that would otherwise be dispersed into the atmosphere, using it to preheat the air coming in from outside.

During summer, the exchange is more effective in warmer climates, where the cool air expelled is used to pre-cool the air coming in from outside.

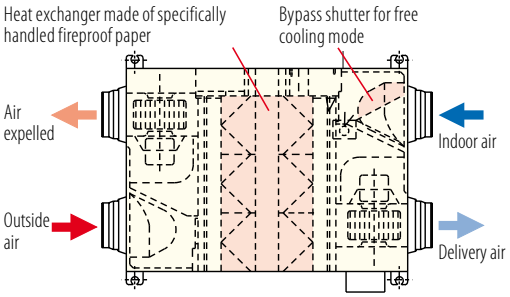
The recovery of dispersed energy reduces the heating requirements of the spaces in a building, ensuring lower emissions and considerable long-term savings on energy consumption and system maintenance.

Unit equipped with nylon-polyester fibre filters in class G3.

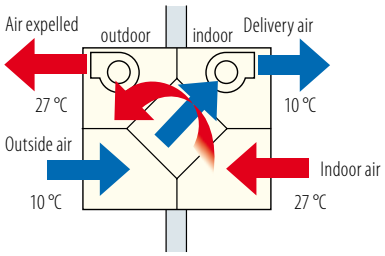
Wired control included.

SAF 150E7
SAF 250E7
SAF 350E7
SAF 500E7
SAF 800E7
SAF 1000E7

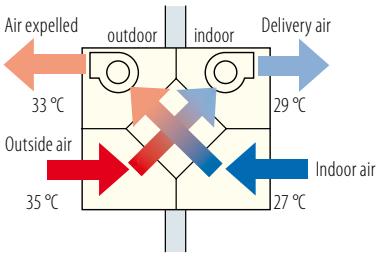
Structure (SAF 800E7)



Operating principle in free cooling mode



Operating principle in heat recovery mode



Warning: the drawings above represent only the operation principles; they do not represent the real position of the air inlets. For the correct position, refer to the drawing on the left.

Model			SAF 150E7	SAF 250E7	SAF 350E7	SAF 500E7	SAF 800E7	SAF 1000E7
Type			Enthalpy heat recovery unit					
Control (included)			Wired control					
Enthalpy exchange efficiency[1]	Cooling	%	63	63	66	62	65	65
	Heating		70	70	69	67	71	71
Heat exchange efficiency		%	75	75	75	75	75	75
Electrical data								
Power supply		Ph-V-Hz	1-220~240-50					
Power input		W	92~107	108~123	178~185	204~225	360~378	416~432
Rated absorbed current		A	0,42~0,45	0,49~0,51	0,77~0,81	0,93~0,94	1,58~1,64	1,80~1,89
Product specifications								
Outdoor dimensions	LxDxH	mm	970x467x270	882x599x270	1050x804x317	1090x904x317	1322x884x388	1322x1134x388
Net weight		Kg	25	29	49	57	71	83
Sound pressure level	Max	dB(A)	29	31,5	33	37,5	37,5	38,5
Volume of air treated		m³/h	150	250	350	500	800	1000
Fan static pressure	Max	Pa	80	105	140	120	140	105
Ducting flange		mm	ø98	ø144	ø144	ø194	ø242	ø242
Field of application	Max UR 85%	°C	-10~40					
Specific energy consumption[2]	SEC	kWh/m² y	-28,6	-	-	-	-	-
Class SEC[2]			B	-	-	-	-	-

1. Values related to the maximum speed of the 3 levels settable by wired remote control. 2 Mandatory data for residential ventilation units (RVU) only.
Reference standards:
EU Ecodesign Directive 1253/2014 for non-residential ventilation units (NRVU) and residential ventilation (RVU).
EU Energy Labelling 1254/2014 Residential Ventilation Unit (RVU).

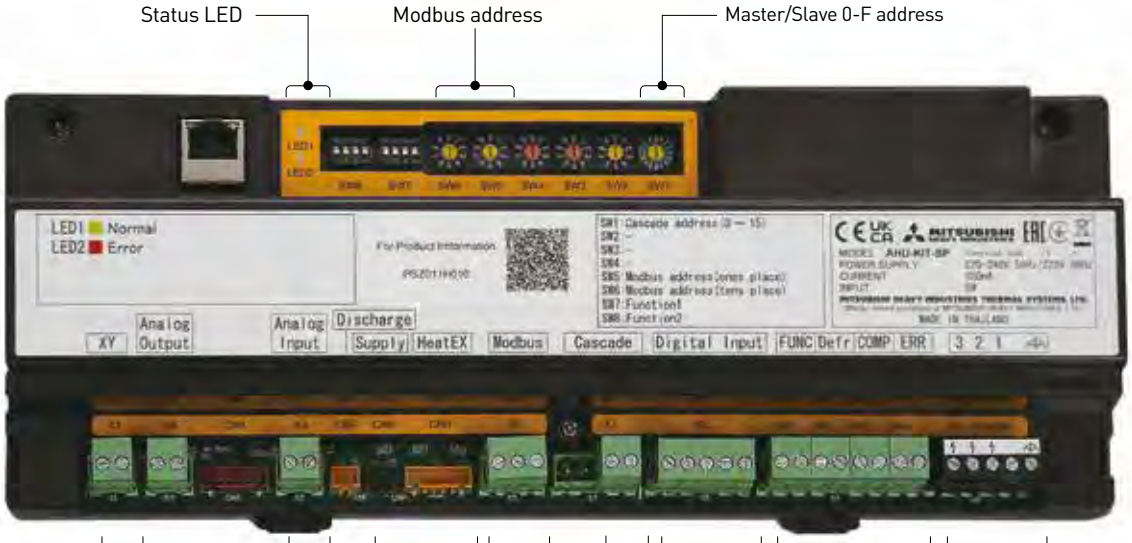
AIR HANDLING UNIT INTERFACE

AHU-KIT-SP2

The AHU controller for the air handling units works as an interface between MHI's commercial outdoor units and the air handling unit.

- Compact interface for RAC and PAC outdoor units.
- Capacity control via 0-10V / 4-20 mA signal.
- 3 digital input signals, and 4 output digital signals.
- Modbus connection (RS485).
- Cascade control for up to 16 units.
- Inlet air temperature control.

MAIN COMPONENTS



Remote control

Analogic input
Capacity control (type 2))

1. 0-10V	0~1V : 0% capacity 9~10V : 100% capacity
2. 4-20mA	4mA : 0% capacity 19.5~20mA : 100% capacity

Sensor connection
- Thi-R1/2/3 (Heat exchanger temperature)
- Thi-A (Air return temperature)

Modbus (RS485)

Cascade connection

Power supply
AC 220V-240V(50Hz), 220V(60Hz)
Signal line b/w O.U.

Dry contact digital outputs (x4)

Digital input (x3)
Input AC24-240V/DC20-130V

MAIN FEATURES

Model		AHU-KIT-SP2
Dimensions (LxDxH)		290x57x109.5 mm
External input	Capacity control	○ 0-10V DC. 4-20mA(0-100%)
	Cooling/Heating	○
	On/Off operation	○
	Emergency stop	○
External output	Comp On/Off	○
	Active/Stop	○
	Defrost On/Off	○
	Cooling/Heating mode	○
	Error	○
Modbus (RS-485)		○
Cascade control		○ Max 16
Safety standard		EN60335-1

COMPATIBILITY

Capacity	R32
Small	SRC 40 ZSX-W1/SRC 50/60 ZSX-W3
	FDC 71 VNX-W
Medium	FDC 100/125/140 VNX-W
	FDC 100/125/140 VSX-W
	FDC 100/125/140 VNA-W
	FDC100/125/140 VSA-W
Large	FDC 200/250/280 VSA-W

AIR HANDLING UNIT INTERFACE

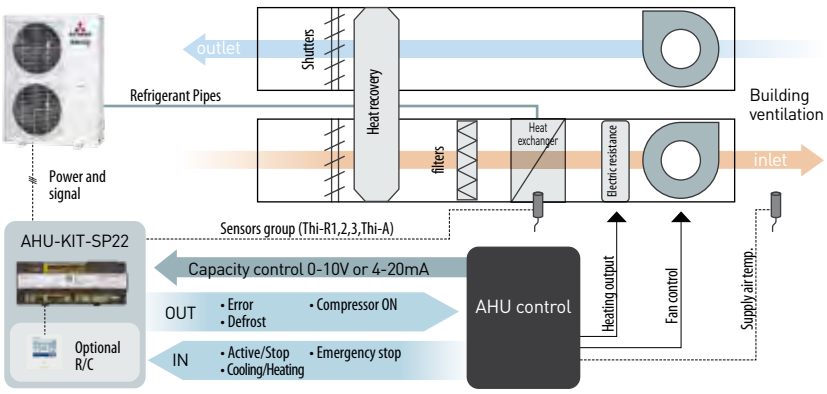
SYSTEM EXAMPLES

GENERAL AHU

1. 0-10V/4-20mA capacity control
2. Various I/O for better control
3. Optional command

Compatible with standard AHU controllers on the market.

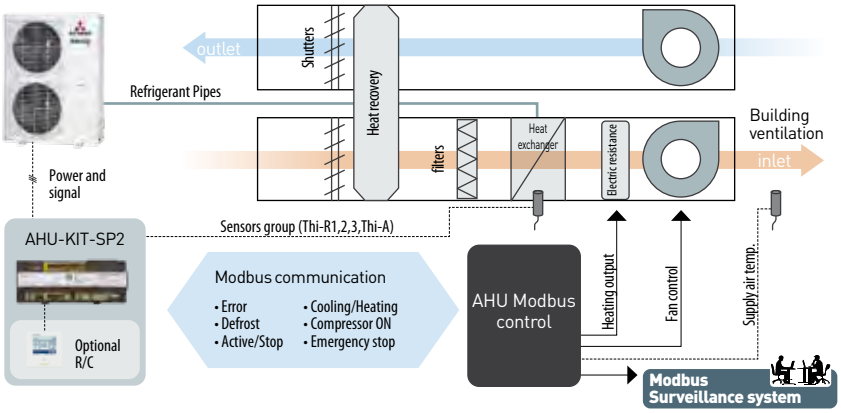
Wide flexibility.



MODBUS AHU

1. Modbus connection
2. Same control as the external I / O
3. Optional command

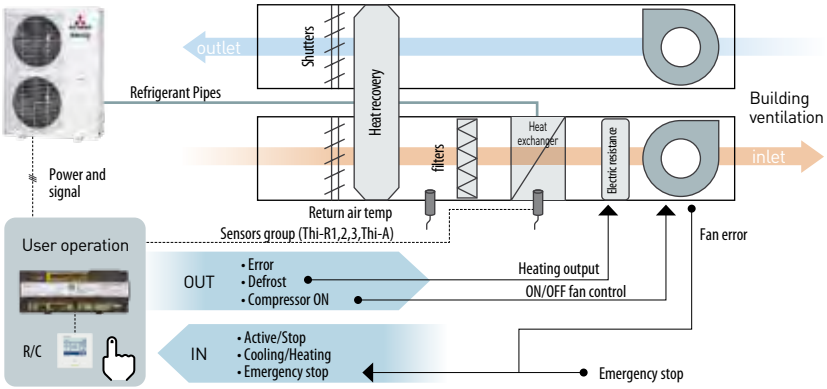
BMS connectivity without any additional device.



SIMPLE AHU

1. Connecting the remote control
2. Adequate external input / output

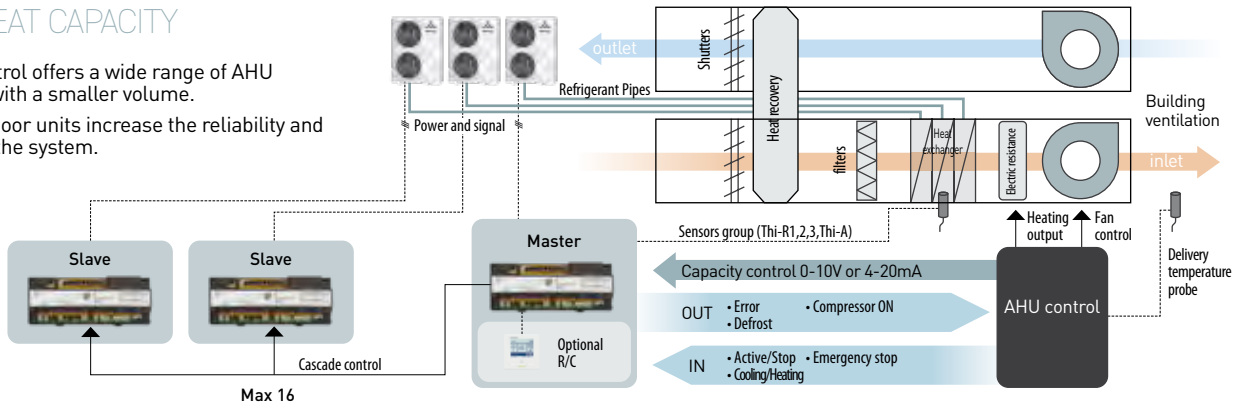
Simple autonomous management of the AHU through the temperature control set by RC.



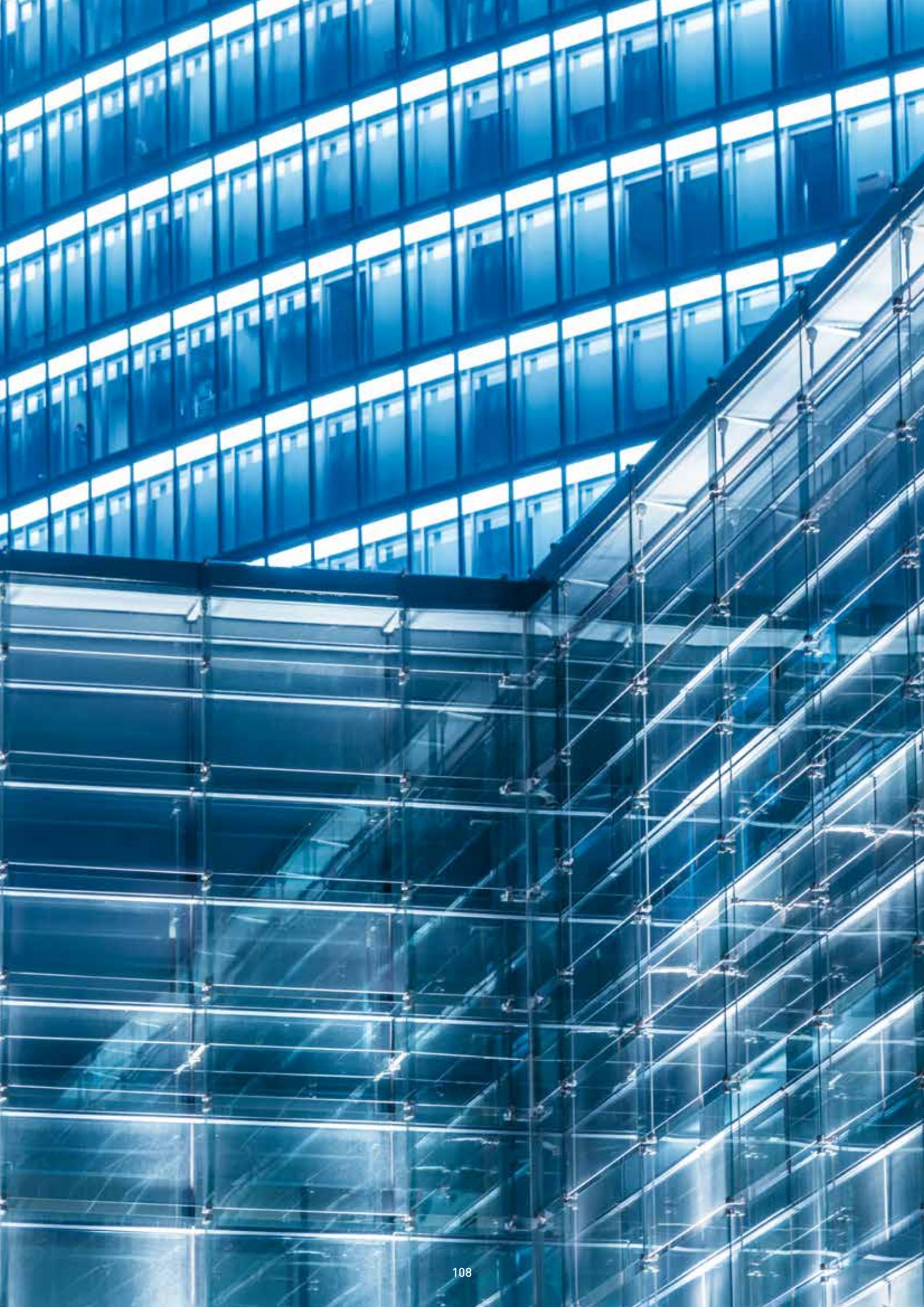
AHU GREAT CAPACITY

Cascade control offers a wide range of AHU capabilities with a smaller volume.

Multiple outdoor units increase the reliability and efficiency of the system.



MITSUBISHI HEAVY INDUSTRIES



VRF MULTI SYSTEMS

VRF MULTI SYSTEMS

112 OUTDOOR UNITS LINE-UP

HEAT PUMP VRF MULTI SYSTEMS

116 KXZ2 VRF-T, THE NEW GENERATION OF MHI VRF
118 HEAT PUMP KXZ SYSTEM
131 KXZ MICRO VRF-T KXZ SYSTEM
132 KXZ MICRO COMPACT
134 KXZM MICRO LARGE CONNECTION
136 KXZP MICRO SMART
137 KXZ2 VRF-T SYSTEM
143 KXZX2 HI-COP SYSTEM

HEAT RECOVERY VRF MULTI SYSTEMS

146 HEAT RECOVERY KXZR2 SYSTEM
153 HEAT RECOVERY KXZR2
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WATER COOLED VRF MULTI SYSTEM

160 WATER COOLED VRF-T KXZW SYSTEM

166 INDOOR UNITS LINE-UP

167 HUMAN SENSOR

168 INDOOR UNITS

182 ENTHALPY HEAT RECOVERY UNIT

183 POST-TREATMENT MODULAR UNIT

184 CONTROL SYSTEM FOR AHU EEV-KIT

The complete control of technology is one of the pillars of MHI. KXZ models with VRF-T technology are an example: high-performance systems thanks to operating flexibility, high energy efficiency and easy installation.

I KXZ can meet the needs of an increasing number of applications in the commercial and industrial sectors

MITSUBISHI HEAVY INDUSTRIES

LINEUP

VRF MULTI SYSTEM

Heat pump outdoor units

KXZ MICRO COMPACT VRF-T

12.10 kW	14.00 kW	15.50 kW
4HP	5HP	6HP
FDC 121 KXZEN1	FDC 140 KXZEN1	FDC 155 KXZEN1
FDC 121 KXZES1	FDC 140 KXZES1	FDC 155 KXZES1

KXZM MICRO LARGE CONNECTION VRF-T

22.40 kW	28.00 kW	33.50 kW
8HP	10HP	12HP
FDC 224 KXZME1	FDC 280 KXZME1	FDC 335 KXZME1A

KXZP MICRO SMART VRF-T

22.40 kW	28.00 kW
8HP	10HP
FDC 224 KXZPE1	FDC 280 KXZPE1

KXZ2 VRF-T

28.00 kW	33.50 kW	40.00 kW	45.00 kW	47.50 kW	50.00 kW	56.00 kW
10HP	12HP	14HP	16HP	17HP	18HP	20HP
FDC 280 KXZE2	FDC 335 KXZE2	FDC 400 KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2

61.50 kW	67.00 kW	73.50 kW	80.00 kW	85.00 kW	90.00 kW	95.00 kW	100.00 kW	106.00 kW	112.00 kW
22HP	24HP	26HP	28HP	30HP	32HP	34HP	36HP	38HP	40HP
FDC 615 KXZE2	FDC 670 KXZE2	FDC 735 KXZE2	FDC 800 KXZE2	FDC 850 KXZE2	FDC 900 KXZE2	FDC 950 KXZE2	FDC 1000 KXZE2	FDC 1060 KXZE2	FDC 1120 KXZE2
10+12	**12+12**	**12+14**	**14+14**	**14+16**	**16+16**	**17+17**	**18+18**	**18+20**	**20+20**
FDC 280 KXZE2 FDC 335 KXZE2	FDC 335 KXZE2 FDC 335 KXZE2	FDC 335 KXZE2 FDC 400 KXZE2	FDC 400 KXZE2 FDC 400 KXZE2	FDC 400 KXZE2 FDC 450 KXZE2	FDC 450 KXZE2 FDC 450 KXZE2	FDC 475 KXZE2 FDC 475 KXZE2	FDC 500 KXZE2 FDC 500 KXZE2	FDC 500 KXZE2 FDC 560 KXZE2	FDC 560 KXZE1 FDC 560 KXZE1

120.00 kW	125.00 kW	130.00 kW	135.00 kW	142.50 kW	145.00 kW	150.00 kW	156.00 kW	162.00 kW	168.00 kW
42HP	44HP	46HP	48HP	50HP	52HP	54HP	56HP	58HP	60HP
FDC 1200 KXZE2	FDC 1250 KXZE2	FDC 1300 KXZE2	FDC 1350 KXZE2	FDC 1425 KXZE2	FDC 1450 KXZE2	FDC 1500 KXZE2	FDC 1560 KXZE2	FDC 1620 KXZE2	FDC 1680 KXZE2
14+14+14	**14+14+16**	**14+16+16**	**16+16+16**	**17+17+17**	**17+17+18**	**18+18+18**	**18+18+20**	**18+20+20**	**20+20+20**
FDC 400 KXZE2 FDC 400 KXZE2 FDC 400 KXZE2	FDC 400 KXZE2 FDC 400 KXZE2 FDC 450 KXZE2	FDC 400 KXZE2 FDC 450 KXZE2 FDC 450 KXZE2	FDC 450 KXZE2 FDC 450 KXZE2 FDC 450 KXZE2	FDC 475 KXZE2 FDC 475 KXZE2 FDC 475 KXZE2	FDC 475 KXZE2 FDC 475 KXZE2 FDC 500 KXZE2	FDC 500 KXZE2 FDC 500 KXZE2 FDC 500 KXZE2	FDC 500 KXZE2 FDC 500 KXZE2 FDC 560 KXZE2	FDC 500 KXZE2 FDC 560 KXZE2 FDC 560 KXZE2	FDC 560 KXZE2 FDC 560 KXZE2 FDC 560 KXZE2

KXZX2 Hi-COP VRF-T

56.00 kW
20HP
FDC 560 KXZXE2
10+10
FDC 280 KXZE2 FDC 280 KXZE2

84.00 kW	89.50 kW	95.00 kW	100.50 kW
30HP	32HP	34HP	36HP
FDC 850 KXZXE2	FDC 900 KXZXE2	FDC 950 KXZXE2	FDC 1000 KXZXE2
10+10+10	**10+10+12**	**10+12+12**	**12+12+12**
FDC 280 KXZE2 FDC 280 KXZE2 FDC 280 KXZE2	FDC 280 KXZE2 FDC 280 KXZE2 FDC 335 KXZE2	FDC 280 KXZE2 FDC 335 KXZE2 FDC 335 KXZE2	FDC 335 KXZE2 FDC 335 KXZE2 FDC 335 KXZE2

107.00 kW
38HP
FDC 1060 KXZXE2
12+12+14
FDC 355 KXZE2 FDC 355 KXZE2 FDC 400 KXZE2

113.50 kW
40HP
FDC 1120 KXZXE2
12+14+14
FDC 355 KXZE2 FDC 400 KXZE2 FDC 400 KXZE2

LINEUP

VRF MULTI SYSTEM

Heat pump outdoor units

Connectable power of indoor units

KXZ MICRO COMPACT

HP	4	5	6
kW	12.1	14.0	15.5
EER	3.82	3.54	2.98
COP	3.91	3.83	3.62
max nb. connectable I.U.	8	10	10
power of connectable I.U.(%)	80%~150%		

KXZM MICRO LARGE CONNECTION

HP	8	10	12
kW	22.4	28.0	33.5
EER	4.01	3.54	3.13
COP	4.51	4.29	3.96
max nb. connectable I.U.	22	24	24
power of connectable I.U.(%)	50%~150%		

KXZP MICRO SMART

HP	8	10
kW	22.4	28.0
EER	4.00	3.56
COP	4.67	4.33
max nb. connectable I.U.	8	8
power of connectable I.U.(%)	50%~120%	

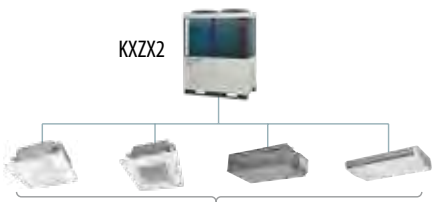
KXZ2

HP	10	12	14	16	17	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
kW	28.0	33.5	40.0	45.0	47.5	50.0	56.0	61.5	67.0	73.5	80.0	85.0	90.0	95.0	100.0	106.0	112.0	120.0	125.0	130.0	135.0	142.5	145.0	150.0	156.0	162.0	168.0
EER	3.86	3.73	3.64	3.22	3.40	3.57	3.20	3.79	3.73	3.68	3.64	3.41	3.22	3.40	3.57	3.36	3.20	3.64	3.48	3.34	3.22	3.40	3.46	3.57	3.43	3.31	3.20
COP	4.25	4.15	4.40	4.00	4.08	4.13	3.90	4.20	4.15	4.28	4.40	4.18	4.00	4.08	4.13	4.01	3.90	4.40	4.25	4.12	4.00	4.08	4.10	4.13	4.04	3.97	3.90
max nb. connectable I.U.	37	44	53	60	50	53	59	65	71	78	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
power of connectable I.U.(%)	50~200%				50~160%										50~130%												

KXZX2 Hi-COP

HP	20	30	32	34	36	38	40
kW	56.0	84.0	89.5	95.0	100.5	107.0	113.5
EER	3.86	3.86	3.81	3.77	3.73	3.70	3.67
COP	4.25	4.25	4.21	4.18	4.15	4.24	4.32
max nb. connectable I.U.	59	80	80	80	80	80	80
power of connectable I.U.(%)	80~160%				80~130%		

Connectable power: 130% (36-60HP KXZ2)
Connectable power: 160%~200% (10-34HP KXZ2)



Connectable power: 130% (36-40HP KXZX2)
Connectable power: 160% (20-34HP KXZX2)

MITSUBISHI HEAVY INDUSTRIES

LINEUP

VRF MULTI SYSTEM

Heat recovery outdoor units

KXZR2

22.40 kW	28.00 kW	33.50 kW
8HP	**10HP**	**12HP**
FDC 224 KXZRE2	FDC 280 KXZRE2	FDC 335 KXZRE2

40.00 kW	45.00 kW	47.50 kW	50.00 kW	56.00 kW	61.50 kW	67.00 kW
14HP	**16HP**	**17HP**	**18HP**	**20HP**	**22HP**	**24HP**
FDC 400 KXZRE2	FDC 450 KXZRE2	FDC 475 KXZRE2	FDC 500 KXZRE2	FDC 560 KXZRE2	FDC 615 KXZRE2	FDC 670 KXZRE2

73.50 kW	80.00 kW	85.50 kW	90.00 kW	95.00 kW	100.00 kW	106.00 kW	112.00 kW
26HP	**28HP**	**30HP**	**32HP**	**34HP**	**36HP**	**38HP**	**40HP**
FDC 735 KXZRE2	FDC 800 KXZRE2	FDC 850 KXZRE2	FDC 900 KXZRE2	FDC 950 KXZRE2	FDC 1000 KXZRE2	FDC 1060 KXZRE2	FDC 1120 KXZRE2
12+14	**14+14**	**14+16**	**16+16**	**17+17**	**18+18**	**18+20**	**20+20**
FDC 335 KXZXRE2 FDC 400 KXZRE2	FDC 400 KXZXRE2 FDC 400 KXZXRE2	FDC 400 KXZXRE2 FDC 450 KXZXRE2	FDC 450 KXZXRE2 FDC 450 KXZXRE2	FDC 475 KXZXRE2 FDC 475 KXZXRE2	FDC 500 KXZXRE2 FDC 500 KXZXRE2	FDC 500 KXZXRE2 FDC 560 KXZXRE2	FDC 560 KXZXRE2 FDC 560 KXZXRE2

120.00 kW	125.00 kW	130.00 kW	135.00 kW	142.50 kW	145.00 kW	150.00 kW	156.00 kW	162.00 kW	168.00 kW
42HP	**44HP**	**46HP**	**48HP**	**50HP**	**52HP**	**54HP**	**56HP**	**58HP**	**60HP**
FDC 1200 KXZRE2	FDC 1250 KXZRE2	FDC 1300 KXZRE2	FDC 1350 KXZRE2	FDC 1425 KXZRE2	FDC 1450 KXZRE2	FDC 1500 KXZRE2	FDC 1560 KXZRE2	FDC 1620 KXZRE2	FDC 1680 KXZRE2
14+14+14	**14+14+16**	**14+16+16**	**16+16+16**	**17+17+17**	**17+17+18**	**18+18+18**	**18+18+20**	**18+20+20**	**20+20+20**
FDC 400 KXZRE2 FDC 400 KXZRE2 FDC 400 KXZRE2	FDC 400 KXZRE2 FDC 400 KXZRE2 FDC 450 KXZRE2	FDC400 KXZRE2 FDC450 KXZRE2 FDC450 KXZRE2	FDC 450 KXZRE2 FDC 450 KXZRE2 FDC 450 KXZRE2	FDC 475 KXZRE2 FDC 475 KXZRE2 FDC 475 KXZRE2	FDC 475 KXZRE2 FDC 475 KXZRE2 FDC 500 KXZRE2	FDC 500 KXZRE2 FDC 500 KXZRE2 FDC 500 KXZRE2	FDC 500 KXZRE2 FDC 500 KXZRE2 FDC 560 KXZRE2	FDC 500 KXZRE2 FDC 560 KXZRE2 FDC 560 KXZRE2	FDC 560 KXZRE2 FDC 560 KXZRE2 FDC 560 KXZRE2

KXZRX2 Hi-COP VRF-T

45.00 kW	50.00 kW	56.00 kW	61.50 kW	67.00 kW
16HP	**18HP**	**20HP**	**22HP**	**24HP**
FDC 450 KXZRXE2	FDC 500 KXZRXE2	FDC 560 KXZRXE2	FDC 615 KXZRXE2	FDC 450 KXZRXE2
8+8	**8+10**	**10+10**	**10+12**	**12+12**
FDC 224 KXZXRE2 FDC 224 KXZXRE2	FDC 224 KXZXRE2 FDC 280 KXZXRE2	FDC 280 KXZXRE2 FDC 280 KXZXRE2	FDC 280 KXZXRE2 FDC 335 KXZXRE2	FDC 335 KXZXRE2 FDC 335 KXZXRE2

73.5 kW	80.00 kW	85.00 kW	90.00 kW	95.00 kW	100.00 kW
26HP	**28HP**	**30HP**	**32HP**	**34HP**	**36HP**
FDC 735 KXZRXE2	FDC 800 KXZRXE2	FDC 850 KXZRXE2	FDC 900 KXZRXE2	FDC 950 KXZRXE2	FDC 1000 KXZRXE2
8+8+10	**8+10+10**	**10+10+10**	**10+10+12**	**10+12+12**	**12+12+12**
FDC 224 KXZXRE2 FDC 224 KXZXRE2 FDC 280 KXZXRE2	FDC 224 KXZXRE2 FDC 280 KXZXRE2 FDC 280 KXZXRE2	FDC 280 KXZXRE2 FDC 280 KXZXRE2 FDC 280 KXZXRE2	FDC 280 KXZXRE2 FDC 280 KXZXRE2 FDC 335 KXZXRE2	FDC 280 KXZXRE2 FDC 335 KXZXRE2 FDC 335 KXZXRE2	FDC 335 KXZXRE2 FDC 335 KXZXRE2 FDC 335 KXZXRE2

LINEUP

VRF MULTI SYSTEM

Water cooled outdoor units

KXZW WATER VRF-T

22.40 kW	28.00 kW	33.50 kW
8HP	**10HP**	**12HP**
FDC 224 KXZWE1	FDC 280 KXZWE1	FDC 335 KXZWE1

45.00 kW	50.00 kW	56.00 kW	61.50 kW	67.00 kW
16HP	**18HP**	**20HP**	**22HP**	**24HP**
FDC 450 KXZWE1	FDC 500 KXZWE1	FDC 560 KXZWE1	FDC 615 KXZWE1	FDC 670 KXZWE1
8+8	8+10	10+10	10+12	12+12
FDC 224 KXZWE1 FDC 224 KXZWE1	FDC 224 KXZWE1 FDC 280 KXZWE1	FDC 280 KXZWE1 FDC 280 KXZWE1	FDC 280 KXZWE1 FDC 335 KXZWE1	FDC 335 KXZWE1 FDC 335 KXZWE1

73.00 kW	77.50 kW	85.00 kW	90.00 kW	95.00 kW	100.00 kW
26HP	**28HP**	**30HP**	**32HP**	**34HP**	**36HP**
FDC 730 KXZWE1	FDC 775 KXZWE1	FDC 850 KXZWE1	FDC 900 KXZWE1	FDC 950 KXZWE1	FDC 1000 KXZWE1
8+8+10	8+10+10	10+10+10	10+10+12	10+12+12	12+12+12
FDC 224 KXZWE1 FDC 224 KXZWE1 FDC 280 KXZWE1	FDC 224 KXZWE1 FDC 224 KXZWE1 FDC 280 KXZWE1	FDC 280 KXZWE1 FDC 280 KXZWE1 FDC 280 KXZWE1	FDC 280 KXZWE1 FDC 280 KXZWE1 FDC 335 KXZWE1	FDC 280 KXZWE1 FDC 335 KXZWE1 FDC 335 KXZWE1	FDC 335 KXZWE1 FDC 335 KXZWE1 FDC 335 KXZWE1

Heat recovery outdoor units

Connectable power of indoor units

KXZR2

HP	8	10	12	14	16	17	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
kW	22.4	28.0	33.5	40.0	45.0	47.5	50.0	56.0	61.5	67.0	73.5	80.0	85.0	90.0	95.0	100.0	106.0	112.0	120.0	125.0	130.0	135.0	142.5	145.0	150.0	156.0	162.0	168.0
EER	3.89	3.79	3.47	3.46	3.11	3.20	3.29	2.90	2.88	2.62	3.47	3.46	3.27	3.11	3.20	3.29	3.07	2.90	3.46	3.33	3.21	3.11	3.20	3.23	3.29	3.14	3.01	2.90
COP	4.25	4.08	3.97	4.10	3.95	4.07	3.94	3.75	3.81	3.61	4.04	4.10	4.02	3.95	4.07	3.94	3.84	3.75	4.10	4.04	4.00	3.95	4.07	4.02	3.94	3.87	3.81	3.75
max nb. connectable I.U.	29	37	44	53	60	50	53	59	65	71	78	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
power of connectable I.U.%	50~200%					50~160%										50~130%												

KXZRX2 Hi-COP

HP	16	18	20	22	24	26	28	30	32	34	36
kW	45.0	50.0	56.0	61.5	67.0	73.5	80.0	85.0	90.0	95.0	100.0
EER	3.91	3.80	3.79	3.61	3.47	3.89	3.89	3.83	3.68	3.56	3.45
COP	4.27	4.12	4.08	4.02	3.97	4.22	4.21	4.13	4.06	4.00	3.95
max nb. connectable I.U.	60	53	59	65	71	78	80	80	80	80	80
power of connectable I.U.%	80~200	80~160%									80~130

Water cooled outdoor units

Connectable power of indoor units

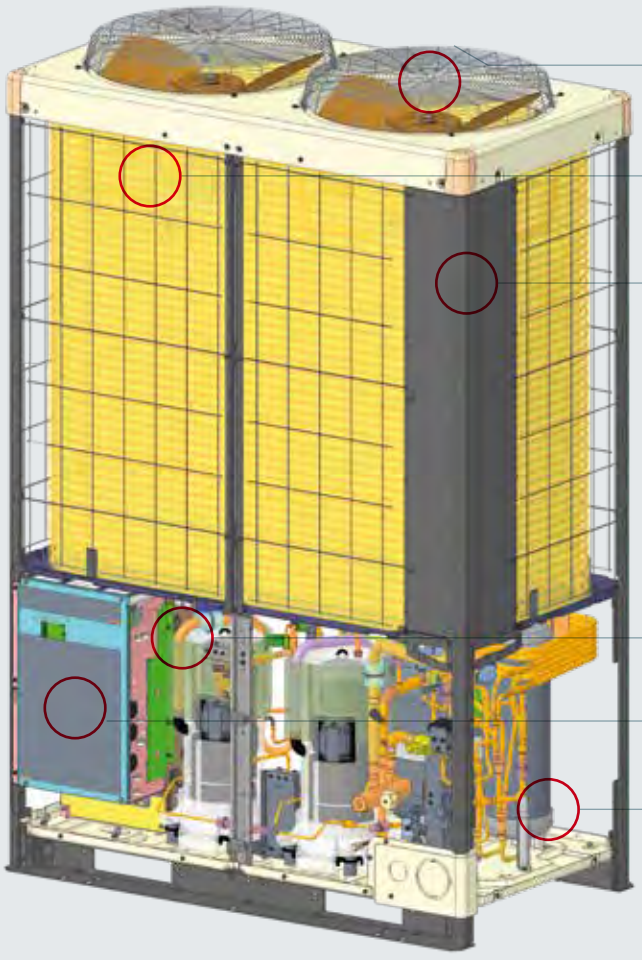
KXZW WATER

HP	8	10	12	16	18	20	22	24	26	28	30	32	34	36
kW	22.4	28.0	33.5	45.0	50.0	56.0	61.5	67.0	73.0	77.5	85.0	90.0	95.0	100.0
EER	5.30	4.87	4.12	5.30	5.09	4.87	4.49	4.11	5.14	5.00	4.86	4.62	4.38	4.12
COP	5.90	6.18	5.95	5.90	6.04	6.18	6.05	5.95	5.98	6.08	6.17	6.10	6.02	5.96
max nb. connectable I.U.	22	28	33	44	50	56	61	67	72	78	80	80	80	80
power of connectable I.U.%	50~150%													

MITSUBISHI HEAVY INDUSTRIES

KXZ2 VRF-T, THE NEW GENERATION OF MHI VRF

VRF systems offer a consolidated solution for the market and for a technological point of view, after having contributed to the transformation of environmental conditioning, VRF systems are now able to guarantee efficient and competitive solutions.



AC fan motor

High-efficiency heat exchanger

Rounded design

RENEWED SHAPES & COMPONENTS

Optimised pipeline shape

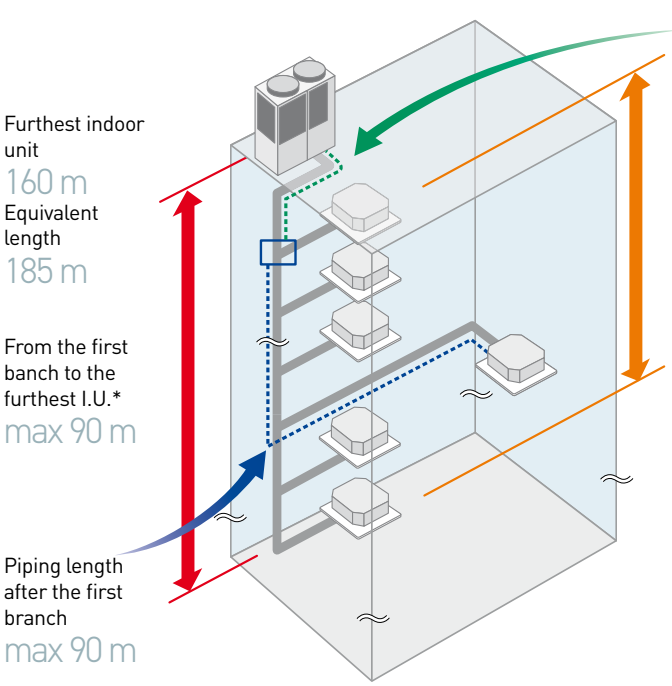
New Inverter control

Next-generation compressor

Through the use of lower friction between components, MHI has developed a compressor that improves efficiency.

HIGH SPLITTING DISTANCE

A maximum height difference between indoor units has been increased to 30 metres, and a maximum height difference between outdoor and indoor units has been increased to 90 metres.



* The difference in height between the longest and shortest pipeline, from the first derivation, must be less than 40 m (maximum 85 m).

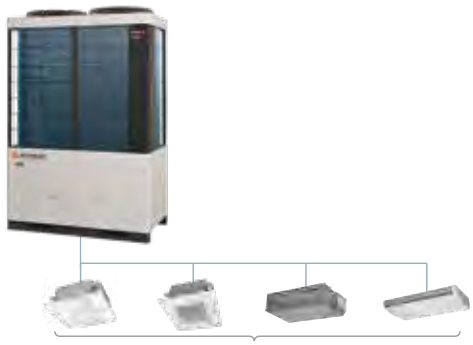
** It is necessary to change the corresponding setting of each difference in level during installation. Range of use also varies.

Total length: 1000 m

INCREASE IN THE NUMBER OF INDOOR UNITS THAT CAN BE CONNECTED

HP	10	12	14	16	17	18	20	22	24	26	28	30	32	34
max nb. connectable I.U.	37	44	53	60	50	53	59	65	71	78	80	80	80	80

HP	36	38	40	42	44	46	48	50	52	54	56	58	60
max nb. connectable I.U.	80	80	80	80	80	80	80	80	80	80	80	80	80

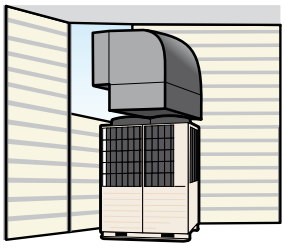


Up to 80 connectable indoor units

LOW TEMPERATURE POWER CONTROL

The new **continuous control of heating capacity** improves the management of power consumption at low outside temperatures.

The continuous control regulates the pressure automatically, thereby increasing the heating period and decreasing the defrosting period.



INSTALLATION FLEXIBILITY

max 85 Pa

The static pressure reaches up to 85 Pa.

MITSUBISHI HEAVY INDUSTRIES

HEAT PUMP KXZ SYSTEM

Innovative technology for evolutionary standards in the air conditioning of industrial and commercial environments. Functional control and innovative components make this system technology more efficient.

HIGH PERFORMANCE

- Refrigerant temperature control.
- High efficiency.
- High COP values.
- 34% energy savings.

EASY MANAGEMENT

- Compact design.
- Design flexibility.
- Quick installation.
- Easy maintenance.
- Minimum operating costs.

MICRO COMPACT
MICRO LARGE CONNECTION
MICRO SMART

KXZ2

KXZX2 Hi-COP

HEAT PUMP KXZ SYSTEM

Mitsubishi Heavy Industries' KXZ heat pump series with VRF-T technology is distinguished by the possibility of controlling the refrigerant temperature in the various stages of operation, improving the performance levels compared to traditional systems. KXZ is a unique system that provides an excellent performance both cooling and heating. Maximum level of design flexibility, reduction of energy consumption and advanced operating functions, centralised management of system and above all Hi-COP (KXZX), complete the profile of the KXZ series, which ensures reliability and efficiency over time.

WIDE DEPTH OF RANGE

Outdoor units

Up to 80 connectable indoor units. 5 product lines from 4 to 60HP (12.1~168.0 kW): Micro Compact, Micro Large Connection, Micro Smart, KXZ2 and Hi-COP. Mitsubishi air conditioners with VRF-T technology all have double vertical fan and three-phase power supply. They can be installed also in twin combination, with only one refrigerant circuit. The total splitting distance reaches 1000 m.

Indoor units

14 types of units for a total of 81 models.

The variety of types and capacities ensures an offer capable of meeting all the design and installation requirements.

APPLICATION IN NZEB SOLUTION

KXZ system with VRF-T technology is particularly suitable for applications on buildings constructed according to ZEB logic. In fact, the "zero-energy" buildings, realized according to ZEB logic, have the characteristics of reducing the energy consumption, but also of producing the required energy by renewable energy sources, since their goal is the self-sufficiency.

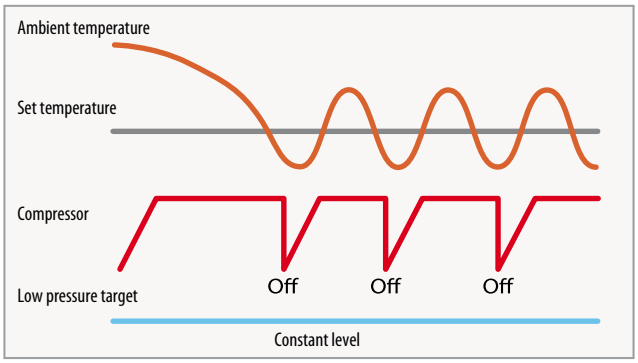
To construct ZEB buildings, it is essential that energy efficiency is put as a priority condition since the construction project, taking into consideration all the components that contribute to the final result: heating, cooling, photovoltaic systems and domestic hot water, until the energy management of the entire structure. To achieve this result, one of the main application solutions is constituted by heat pumps, such as those of KXZ system with VRF-T technology.

WHY CHOOSE THE KXZ SYSTEM?

ENERGY SAVINGS UP TO 34%

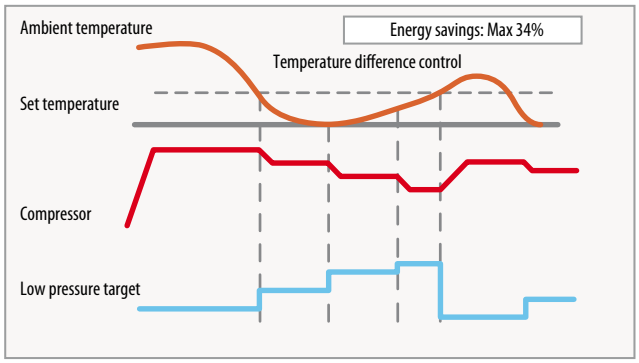
With VRF-T technology, refrigerant temperature control during the condensation and evaporation phases in the refrigerant system ensures energy savings up to 34% in cooling mode during the partial loads, compared to the traditional VRF models.

Traditional system cooling operation



In a traditional system, the refrigerant target pressure to be maintained is constant. As soon as room temperature reaches the temperature set by the user, the compressor is forced to decrease and increase the rpm by on-off cycles that affect the overall efficiency and performance.

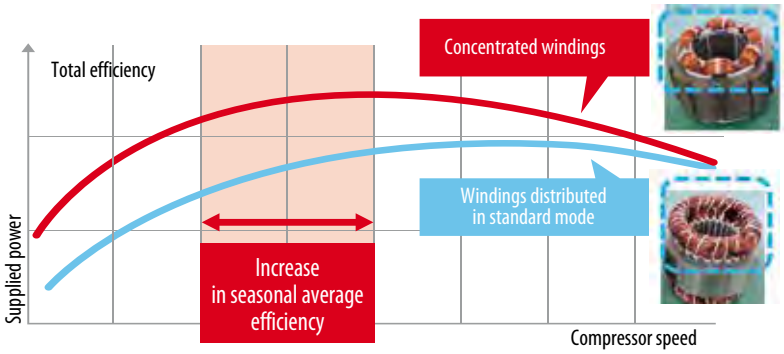
KXZ system cooling operation with activation of VRF-T mode



With the new VRF-T, the refrigerant target pressure to be maintained is not constant, but adjusts proportionally to the difference between the room temperature and the desired temperature. This allows the Inverter compressors to modulate the rpm without ever stopping, thus expressing the maximum efficiency for a global energy saving operation.

ELECTRICAL WINDING OF THE COMPRESSOR FOR HIGH PERFORMANCE AND EFFICIENCY

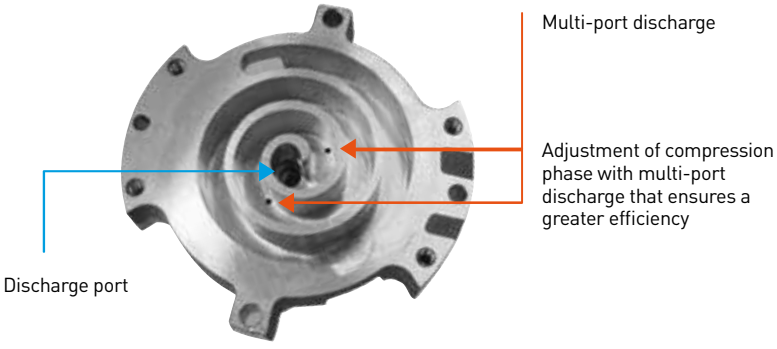
The compacted design of the motor winding significantly improves the electrical performance, which results in increased efficiency, especially in partial loads with a consequent increase in seasonal efficiency.



DC INVERTER COMPRESSOR, FOR HIGH SCOP

The multi-port discharge system of the compressor guarantees better volumetric performance. Optimisation of the pressure control, in particular to the medium compressor operation frequencies, with consequent improvement to seasonal efficiency performance.

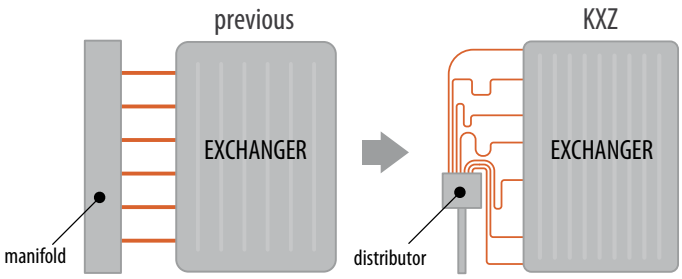
All KXZP/KXZ2/KXZX outdoor units use DC Inverter compressors only.



WHY CHOOSE THE KXZ SYSTEM?

MORE EFFICIENT REFRIGERANT DISTRIBUTOR

The new configuration composed of distributor and capillary has optimized the diffusion of refrigerant in the new heat exchanger, with a further increase in the total efficiency of system.



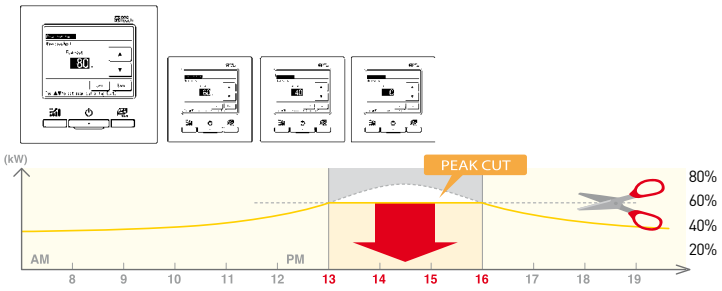
OIL LEVEL CONTROL

Mitsubishi oil level adjustment technology for the combination of two or three outdoor units allows operation with constant balancing, maintaining the units' performance and guaranteeing a long system life.

POWER OUTPUT CONTROL

The power output can be controlled and selected by the function of power cut through RC-EX3A, remote control, to obtain a greater energy saving.

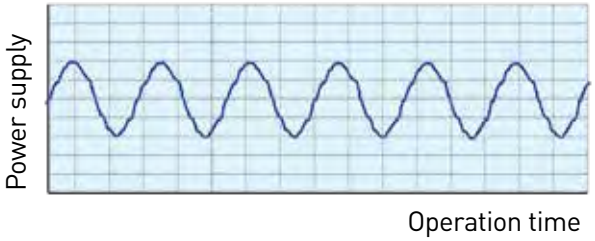
The 4-step power control (80-60-40-0%) is available, that can be programmed in hour intervals, every week.



INVERTER CONTROL (VECTOR)

The use of a new vector Inverter control, allows the user to:

- Increase the response speed of compressors at low and high speed.
- Re-create exactly the sinusoidal waveform of the voltage applied.
- Increase the efficiency of compressors at low speed and partial loads.

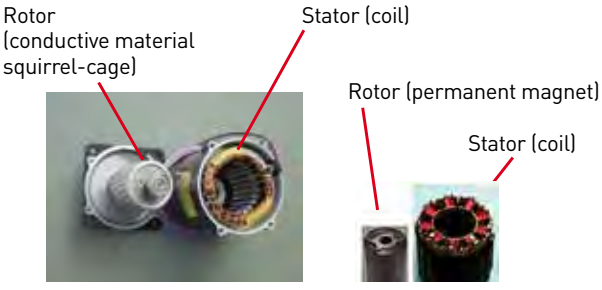


FAN DESIGN WITH SERRATED EDGES

Fan blades with serrated edges that treat a greater air volume, offering low resistance to air and reducing energy consumption.

DC FAN MOTOR

The use of DC fan motor can help achieve excellent efficiency, with an increase higher than 60% compared to the previous models.



ADVANTAGES FOR DESIGNERS

The system design phase requires flexible and advanced solutions, able to respond to each manufacturing solution.

Below is a list of all the points that make KXZ - VRF-T a system equipped with all the advantages that meet new design standards.

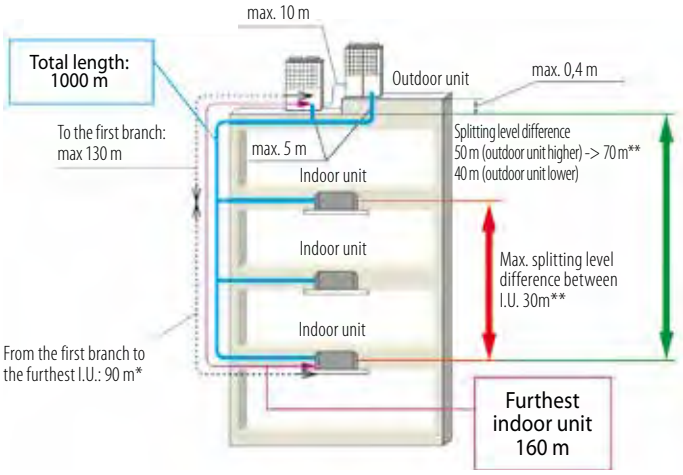



1. HIGH SPLITTING DISTANCE, FLAXIBLE DESIGN 1000 m (10~60HP, KXZ2 series)

There was an increase in the split difference between indoor units up to a maximum of 30 metres, allowing the indoor units to be placed on more than one level.

A 90-metre split level difference has been added between the outdoor and indoor units.

The further indoor unit (160 m) or total length (1000 m) contribute to the flexibility of the system.



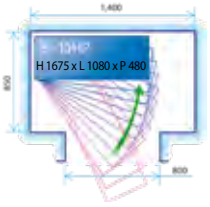
* The difference in height between the longest and shortest pipeline must be less than 40 m (maximum 85 m)

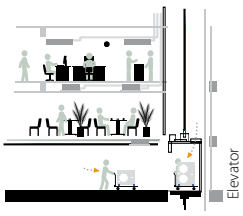
** It is necessary to change the setting of each height during installation. Range of use also varies.

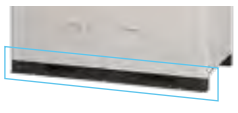
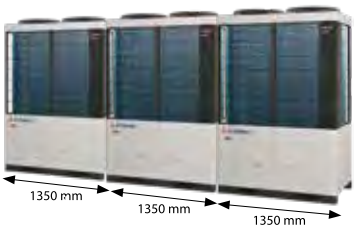
2. EASY TRANSPORT & INSTALLATION

Thanks to the significant reduction in the weight and overall plan dimensions, the KXZM outdoor units can be easily transported in a lift capable of containing 6 people (if permitted by the condominium regulations), with a consequent reduction in costs, time and working procedures.

The outdoor units in the KXZ and KXZX series have a functional base, which makes it easier to lift and transport them to the place of installation. They are also characterised by the same overall plan dimensions, which facilitates the installation of the machines in series as well as optimising times and procedures for maintenance and replacement of each unit.



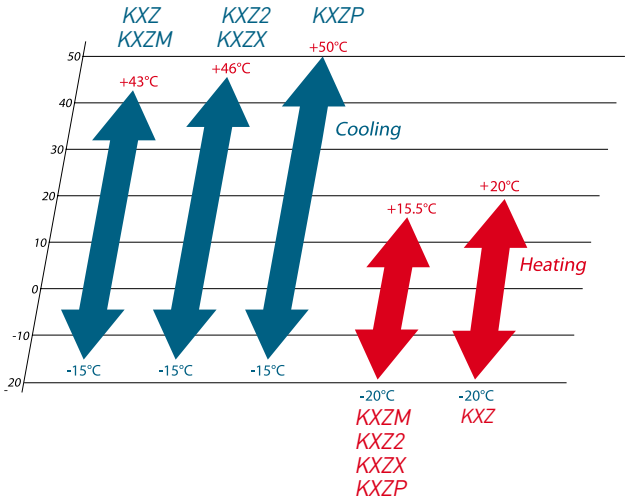




ADVANTAGES FOR DESIGNERS

3. WIDE OPERATING RANGE, FLEXIBLE DESIGN

The KXZP series enables operation in heating mode with an outdoor temperature limit of -20° C and a cooling range up to 50° C. The other series reach 46° C and 43° C.

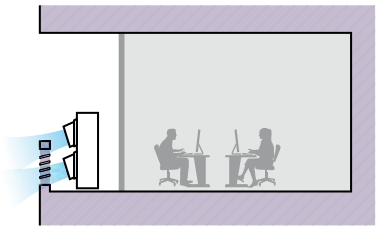
The KXZ Micro series allows heating operation with an external temperature limit of -20°C to 20°C. The other series have operating ranges between -20°C and 15.5°C.



4. BLUE FIN FUNCTION, AGAINST CORROSION OF THE HEAT EXCHANGERS

The particular coating of the heat exchanger louvres guarantees perfect resistance to corrosion and deterioration caused by atmospheric agents.

5. EXTERNAL STATIC PRESSURE FROM 35 PA FOR KXZ MICRO SMART



6. OUTDOOR FAN MOTORS FUNCTION

Function with pressure head useful for ducting.

7. AUTOMATIC FUNCTION FOR REDUCED WEAR

The outdoor units with multiple compressors are subject to wear. This automatic function balances the automatic operation of compressors, depending on the hours of use.

8. ADDITIONAL FUNCTIONS:

- POWER DEMAND OPTION: the outdoor unit's rated power can be decreased.
- SEASONAL OPTION: a summer/winter season function change can be set.
- OUTPUT SIGNAL OPTION: indicates the on or error signal.

ADVANTAGES FOR INSTALLERS

Installing KXZ units in a system means having an installation able to satisfy the most varied requirements, thanks to useful functions and important features which make the life of the system easier to manage, during both installation and maintenance.

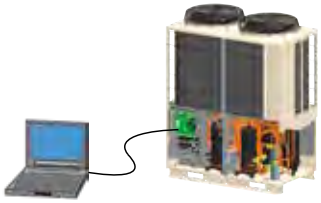



1. MONITORING FUNCTION

Thanks to a simple navigation menu, the displays on the outdoor unit boards are able to show all the vital parameters of the unit and any error messages for prompt intervention.

Connect a PC to the RS 232C port, available on the board, to monitor and save all the historical data of system for assistance and control activities.
Our Mente PC software must be installed on the PC.

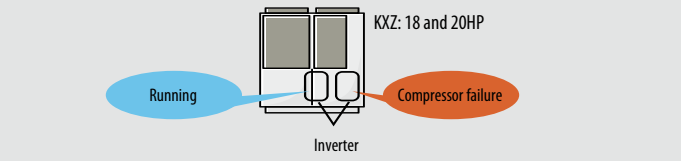
8~60HP

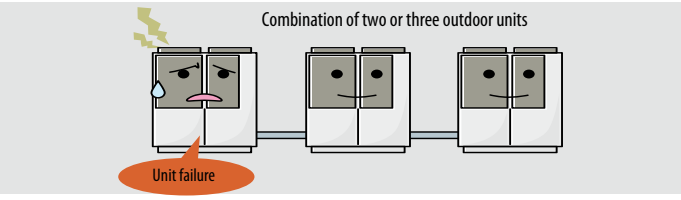



2. BACK UP FUNCTION

In the event that one of them malfunctions, the unit can however operate at reduced capacity.

In multiple combinations of high capacity of two or three outdoor units, unit malfunction does not affect total operation of the system, which will continue to operate in a partial manner.





3. EASY ACCESS TO THE ELECTRICAL BOX FOR MAINTENANCE

Inverter service and maintenance are now easier thanks to the new control box with a structure of 3 levels (KXZ) and 2 levels (KXZP SMART) with a hinged connection.

KXZ

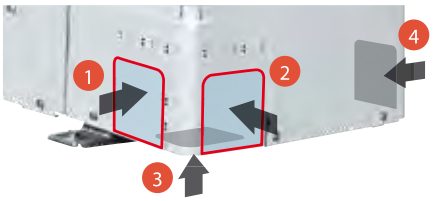
KXZP SMART

ADVANTAGES FOR INSTALLERS

4. EASE OF USE

Position of pipes:

1) from the front
2) to the right
3) below
4) from the back



Service panel maintenance

Unit installation and maintenance of unit are easier thanks to the reduced number of fixing screws on the service panel (from 5 to 2).

New holes for thread insertion, to prevent falls

Clear rain cover

5. GAS TESTING FUNCTION

This function provides for a procedure capable of verifying whether the amount of refrigerant gas contained inside the system is correct.

The positive side to this is evident, as it optimises the use of gases that are harmful to the environment, as required by current legislation.

6. AUTO-ADDRESSING FUNCTION

Simply power the unit and this automatic function will facilitate intelligent connection between multiple units.

7. ADDITIONAL FUNCTIONS

- Simplified test procedure.
- Simplified function for wiring.
- Easy function for refrigerant installation and maintenance.
- The unit's distinguishing feature is that of being Easy Service, as it permits easy maintenance, easy electronic check and feedback by the protection system in case of malfunctions.

ADVANTAGES FOR USERS

A complete system in terms of comfort and smart control, that can be customised to meet the needs of all types of buildings, stores or housing solutions.

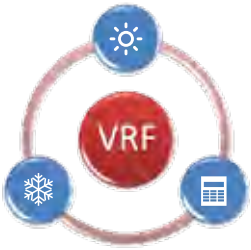
KXZ with VRF-T technology, designed with integration in mind, is an ideal system because it allows end users to achieve maximum energy efficiency as well as manage several systems, with ease of use guaranteed by leading control standards.




1. REDUCED COSTS

Cost reduction is an advantage that relates to several aspects:

- savings in management costs;
- savings in maintenance costs;
- savings on annual consumption thanks to high energy efficiency.



2. A COMPLETE SOLUTION

Only one system for heating, cooling and management control that can fit any solution.

3. MAXIMUM RELIABILITY

- Well-tested systems in every condition.
- After-sales service and service network always available.
- Prompt availability of spare parts.

4. INTEGRATION & BUILDING AUTOMATION

The KXZ- VRF-T system boasts integration with home automation systems or Building Automation for easier and more uniform management.

5. BEST ENERGY CLASS

Being in heat pump, the use of KXZ- VRF-T improves building energy classifications with higher scores, thus increasing building value.

REFRIGERANT CONNECTIONS

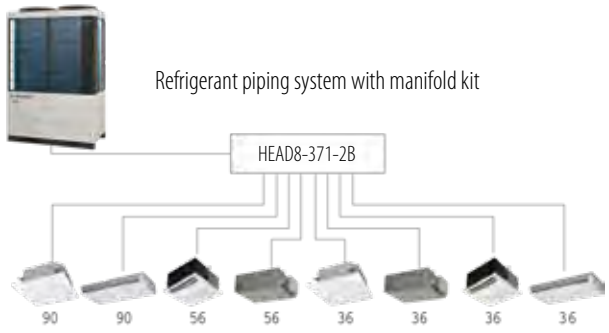
VRF-T systems are manufactured to the highest standards of quality and reliability and it is therefore essential for the installation procedures and materials to have the same qualitative features, to ensure trouble-free long-term operation.
It is advisable to use high quality copper refrigerant piping, in coils or in straight, semi-rigid lengths. The copper piping should be chosen considering the higher operating pressure of R410A refrigerant gas and the increased pressure circulating in the system produced by reverse cycle operation. All materials used must comply with European standards (EN 12735). The branch pipe kits supplied must be used to connect the indoor units and the manifold kits must be used to connect the outdoor units (if necessary). It is forbidden to use standard accessories (elbow pipes, T-joints etc.). The branch pipes must be installed according to manufacturer guidelines and must allow a continuous flow of refrigerant in accordance with European standard E378: 2017.

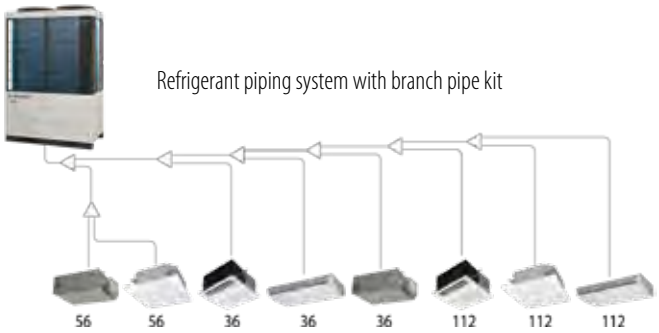
All connecting welds must be made under slight nitrogen pressure to prevent the oxidation of the inner surface of the copper pipes. During installation, no accidental entry of condensate, dust or any other contaminant must be permitted.
Once installation is complete, a leak test must be carried out to check for refrigerant leaks with pressurised nitrogen.
The ends of the pipe must be bent and welded and an appropriate service valve affixed.

Additional refrigerant charge

Only R410A refrigerant gas must be used, and this must be added by weight using an electronic meter. The amount of additional refrigerant must be carefully calculated according to the manufacturer's guidelines, defined by the length and diameter of each section of the system piping.

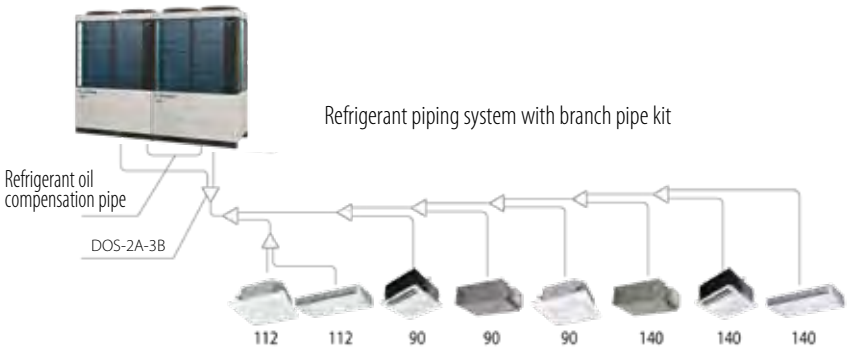
KXZ2 SINGLE OUTDOOR UNIT



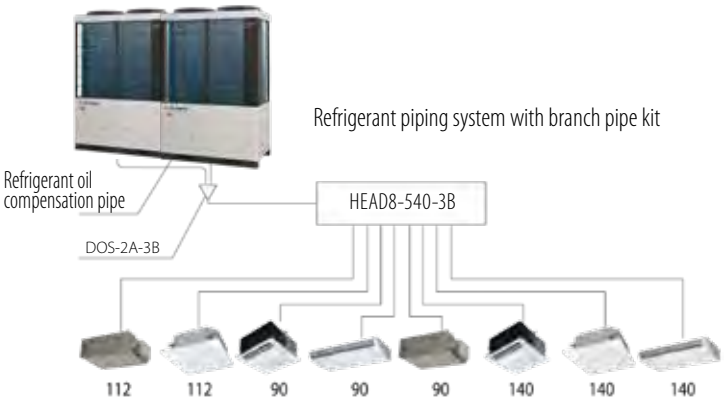


KXZ2 REFRIGERANT CONNECTIONS

KXZ2 COMBINED OUTDOOR UNITS



Set of outdoor unit branch pipes	
Outdoor unit	Set of branch pipes
2 units (for 615~1120)	DOS-2A-3B
3 units (for 1200~1680)	DOS-3A-3B



First branch pipe of the indoor unit			
Total capacity of indoor units	Set of branch pipes	Set of manifolds	
		Model	Branch pipes
~179	DIS-22-1B	HEAD4-22-1B	Max. 4 units
180~370	DIS-180-1B	HEAD6-180-1B	Max. 6 units
371~539	DIS-371-1B	HEAD8-371-2B	Max. 8 units
540~	DIS-540-3B	HEAD8-540-3B	Max. 8 units

HP		10	12	14	16	17	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
Liquid side	Furthest l.U. =<90 m	ø9.52	ø12.7								ø15.88						ø19.05											
Gas side		ø22.22	ø 28.58								ø34.92																	
Liquid side	Furthest l.U. =>90 m	ø 12.7				ø15.88					ø19.05						ø22.22											
Gas side		ø22.22	ø28.58								ø34.92																	

Branch pipes

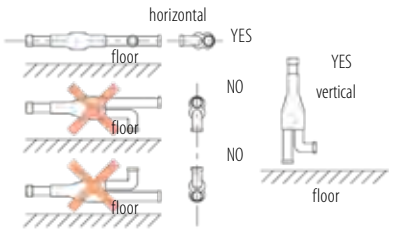
DIS-22-1B/DIS-180-1B

HEAD6-180-1B

DIS-371-1B/DIS-540-3B

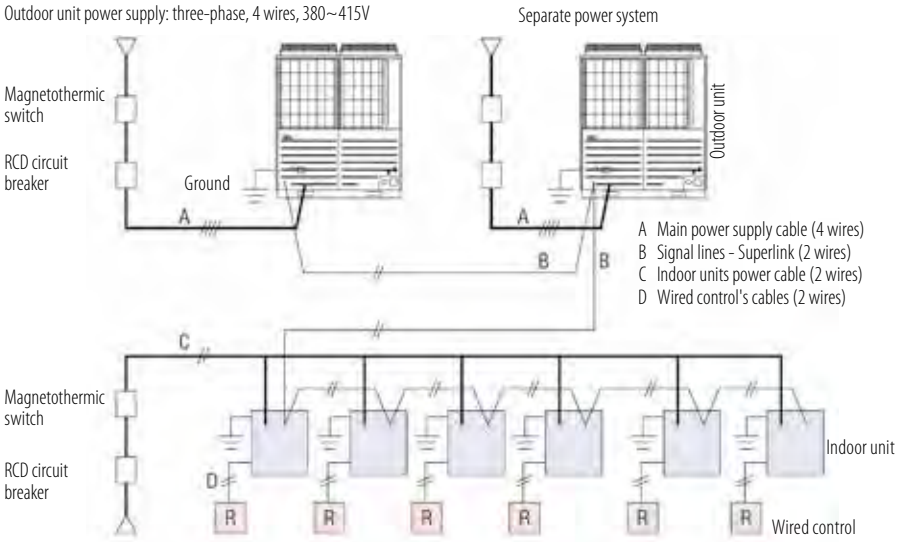
DOS-2A-3B/DOS-3A-3B

Manifolds



WIRING

VRF MHI systems require highly simplified electrical connections to the indoor units, thanks to a control circuit that uses 2 non-polarised conductors. The outdoor unit can be accessed from all sides for electrical connections (front, rear, bottom, right and left). A separate single-phase or three-phase power supply must be brought in for outdoor and indoor units, depending on the product specification.



Indoor unit power supply: single-phase 220~240V

CAUTION: if the RCD is dedicated solely to protecting against leakage to earth, it will be necessary to install a magnetothermic breaker.

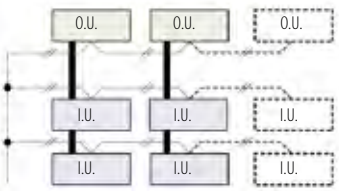
SIGNAL LINE

The signal line that connects the outdoor unit to the indoor units is 5 VDC and uses 2 non-polarised conductors marked A1 and B1. For the signal line with 2 conductors, use shielded cables measuring 0.75 mm². Earth the shield on all the indoor and outdoor units.

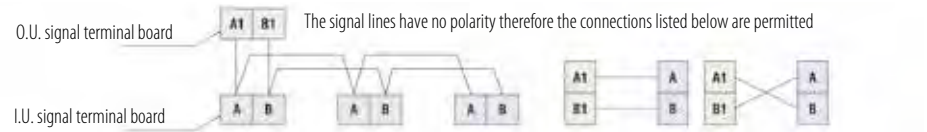
If using combined outdoor units, connect:

- The signal line between indoor and outdoor units, and the signal line between outdoor units that belong to the same refrigerant line, to A1 and B1.
- The signal line between outdoor units belonging to a different refrigerant line to A2 and B2.

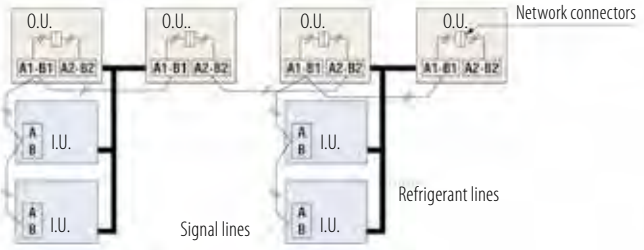
IMPORTANT: star connections on the signal lines **are not permitted.**



Single outdoor unit



Combined outdoor units

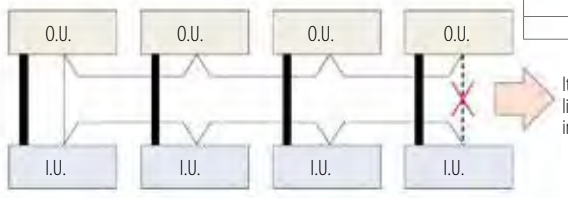


The maximum number of indoor units that can be connected to a signal line is 128, and it is possible to create groups of outdoor and/or indoor units connected to the same outdoor unit or to separate outdoor units, as long as they are connected to the same signal line. The signal line can also be connected by adopting the method described below (multiple connectors).

WIRED CONTROL

The specifications for the connection between the wired remote control and the indoor units (XY connection) are 0 5 mm² x 2 wires. The maximum permitted length is 600 m. If the length exceeds 100 m, refer to the table.

Length (m)	Type of cables
100~200	0.5 mm² x 2 wires
~300	0.75 mm² x 2 wires
~400	1.50 mm² x 2 wires
~600	2.0 mm² x 2 wires

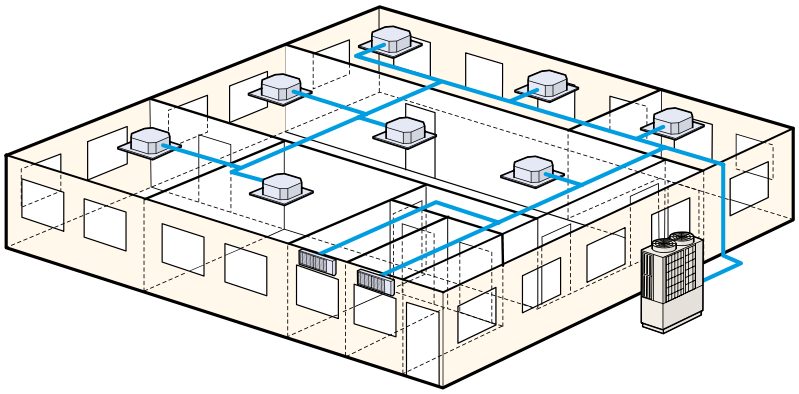


It is not allowed to form a loop with signal lines, therefore the section of the connection indicated with ····· is not permitted.

OPERATING MODE

Fixed cooling mode/fixed heating mode (summer/winter switch)

It is possible to fix the operation mode of the system (cooling or heating) using a switch (SW3-7) on the outdoor unit PC board: this enables the user to decide the operation of the system inside the building (e.g. cooling only in summer/heating only in winter). It is also possible to wire the control switch to a remote location (inside the building), in a control room, or even linked to an ambient thermostat.



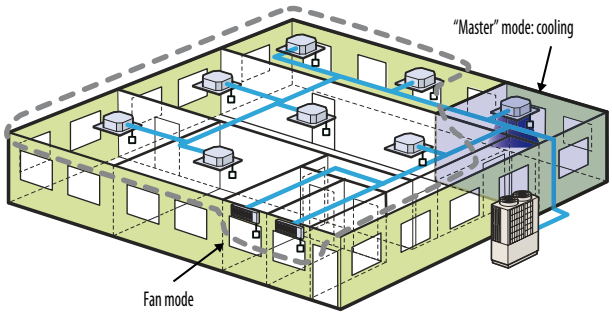
Priority operating mode selection

You can select the following priority operation modes (for the whole system).

1. The first unit's operating mode commands the operating mode (default setting).
2. The last unit's operating mode determines the operating mode for whole system.
3. "Majority" operating mode.
4. "Master" operating mode.

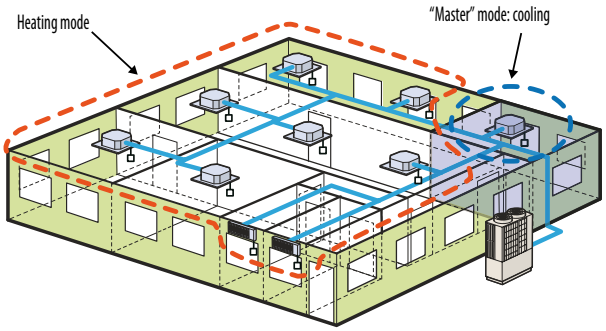
"MAJORITY" OPERATING MODE

The system operates according to the mode selected by the majority of units in operation, taking into consideration the greater capacity between the sum of units in cooling mode and those in heating mode. The minority operating mode is set to fan mode automatically.



"MASTER" OPERATING MODE

In "Master" function, if you select the cooling mode, the units set in heating mode switch to fan mode automatically.



KXZ MICRO VRF-T SYSTEM

Suitable for small or medium-sized offices and shops as well as for residential use

Energy saving, environmental and acoustic comfort as well as installation flexibility make MHI's Micro VRF systems the compact solution for air conditioning of medium and small-sized companies, but also commercial and residential buildings.

KXZ
MICRO
COMPACT

4-6HP
(12.1~15.5 kW)

KXZM
MICRO LARGE
CONNECTION

8~12HP
(22.4~33.5 kW)

KXZ
MICRO
SMART

8~10HP
(22.4~28.0 kW)

MITSUBISHI HEAVY INDUSTRIES

HEAT PUMP KXZ

VRF-T

MICRO COMPACT

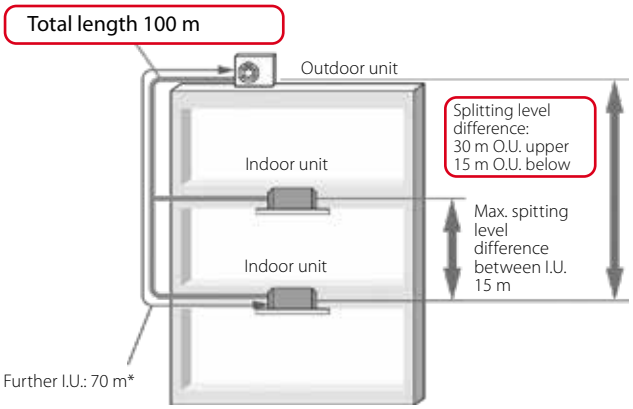
CONNECT UP TO 10 INDOOR UNITS/150% CAPACITY

FDC 121 KXZEN1/ZES1 12.1 kW 1-Phase/3-Phase
FDC 140 KXZEN1/ZES1 14.0 kW 1-Phase/3-Phase
FDC 155 KXZEN1/ZES1 15.5 kW 1-Phase/3-Phase

FEATURES

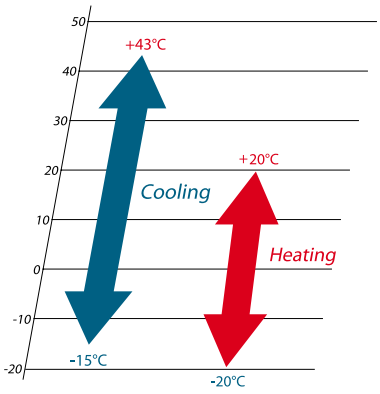
- Maximum energy efficiency COP 3.92 (4HP)
- Rotary DC Inverter compressor on all units
- DC Inverter fan motors
- 4 sound levels in Silent mode
- New PCB cooling system: a refrigerant pipe branch passes to the base of the PCB to prevent overheating
- **Can connect 1.5 kW indoor units**
- New system for managing indoor unit priorities
- "Pump down" safety function: to identify any gas leaks inside the room (third-party sensor) and start up the refrigerant recall procedure by the outdoor unit, present inside the system

INSTALLATION DIAGRAM



* The total length of piping, liquid side ø9.52 mm (3/8") should be 50 m or less.

OPERATING RANGE



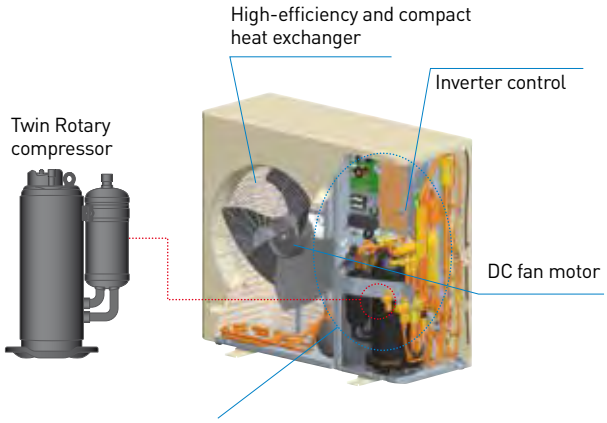
INCREASED NB.. OF CONNECTABLE I.U.

	KXE6	NEW KXZ
4HP	6 units	→ 8 units
5HP	8 units	→ 10 units[1]
6HP	8 units	→ 10 units[2]

1 max capacity <=100% with 9 or 10 connected units

2 max capacity <=100% with 9 or 10 connected units

HIGH EFFICIENCY OF OUTDOOR UNITS 4~6HP



Optimal refrigerant control system, advanced liquid return control, high-speed control system with Superlink, and optimised refrigerant distribution

MICRO COMPACT

4-6HP (12.1~15.5 kW)

BLUE FIN

REFRIGERANT CONNECTIONS

HP		4	5	6
Liquid side	Furthest I.U. =<70 m	ø 9.52 (3/8")		
Gas side		ø 15.88 (5/8")		

BRANCH PIPES

DIS-22-1B
DIS-180-1B

MANIFOLDS

HEAD4-22-1B
HEAD6-180-1B

Outdoor unit model			FDC 121 KXZEN1	FDC 140 KXZEN1	FDC 155 KXZEN1	FDC 121 KXZES1	FDC 140 KXZES1	FDC 155 KXZES1
Power class		**HP**	**4**	**5**	**6**	**4**	**5**	**6**
Nominal data								
Rated capacity	Cooling	kW	12.10	14.00	15.50	12.10	14.00	15.50
Rated power input		kW	3.16	3.96	5.20	3.16	3.96	5.20
Rated energy efficiency coefficient		EER[1]	3.83	3.54	2.98	3.83	3.54	2.98
Rated capacity	Heating	kW	12.10	14.00	15.50	12.10	14.00	15.50
Rated power input		kW	3.09	3.66	4.28	3.09	3.66	4.28
Rated energy performance coefficient		COP[1]	3.92	3.83	3.62	3.92	3.83	3.62
Seasonal data								
Seasonal energy efficiency index	Cooling	SEER[2]	8.15	7.73	7.21	8.15	7.73	7.21
Seasonal performance coefficient	Heating	SCOP[2]	4.63	4.59	4.55	4.63	4.59	4.55
Seasonal energy efficiency (ηs)		%	182.20	180.60	179.00	182.20	180.60	179.00
Electrical data								
Power supply		Ph-V-Hz	1Ph-220~240V-50Hz			3Ph-380~415V-50Hz		
Rated current	Cooling	A	15.30	19.60	25.70	5.20	6.50	8.60
	Heating	A	15.20	18.30	21.40	5.10	6.10	7.10
Maximum current		A	28.00	28.00	28.00	13.50	13.50	13.50
Refrigerant circuit data								
Refrigerant[3]		type (GWP)	R410A (2088)					
Q.ty of refrigerant pre-charge (tons of CO2 equivalent)		kg	5 (10.44)	5 (10.44)	5 (10.44)	5 (10.44)	5 (10.44)	5 (10.44)
Piping diameter	Liquid	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
	Gas		5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
Product specifications								
Dimensions	HxLxD	mm	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370	845x970x370
Net weight		kg	85	85	85	87	87	87
Sound power level	Max	dB(A)	72	72	74	72	72	74
Sound pressure level	Max	dB(A)	56	57	57	56	57	57
Volume of air treated	Standard	m³/h	4500	4500	4500	4500	4500	4500
Fan static pressure	Max	Pa	-	-	-	-	-	-
Operating range (outdoor temperature)	Cooling	°C	-15~43	-15~43	-15~43	-15~43	-15~43	-15~43
	Heating	°C	-20~20	-20~20	-20~20	-20~20	-20~20	-20~20
Connectable indoor units	**Min ~ Max**	**nb.**	**1 ~ 8**	**1 ~ 10[4]**	**1 ~ 10[4]**	**1 ~ 8**	**1 ~ 10[4]**	**1 ~ 10[4]**
	Capacity	**%**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**	**80 ~ 150**

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2 , over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. With limitations on maximum connectivity.

HEAT PUMP KXZ

VRF-T

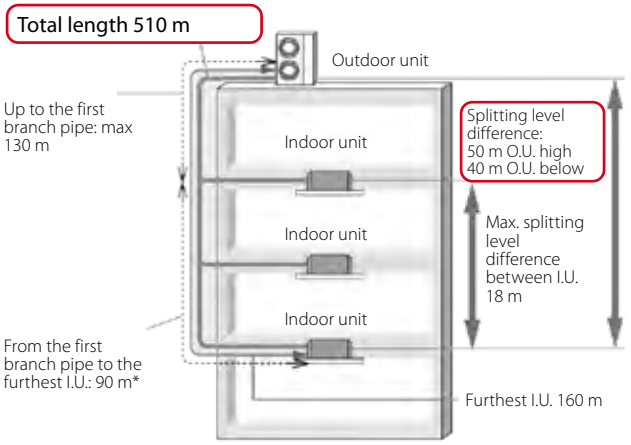
MICRO LARGE CONNECTION

CONNECT UP TO 24 INDOOR UNITS / 150% CAPACITY

FDC 224 KXZME1 22.4 kW 3-Phase
FDC 280 KXZME1 28.0 kW 3-Phase
FDC 335 KXZME1A 33.5 kW 3-Phase

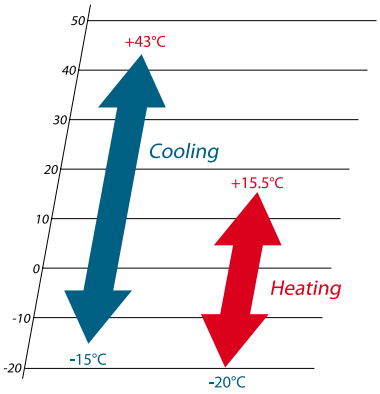
FEATURES

- 1 DC Inverter compressor (8~12HP)
- High splitting distance: up to 510 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m



* With length difference between the furthest indoor unit and the nearest one from the first branch pipe < 40 m.

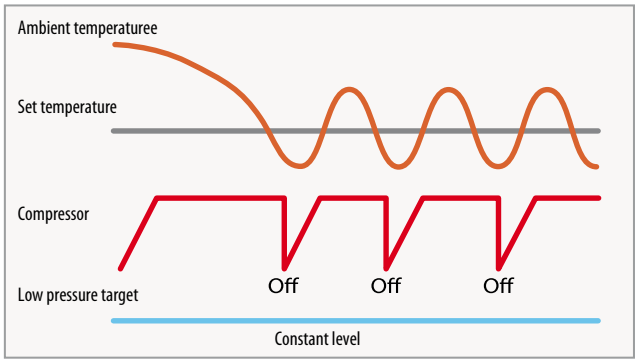
OPERATING RANGE



VRF-T TECHNOLOGY

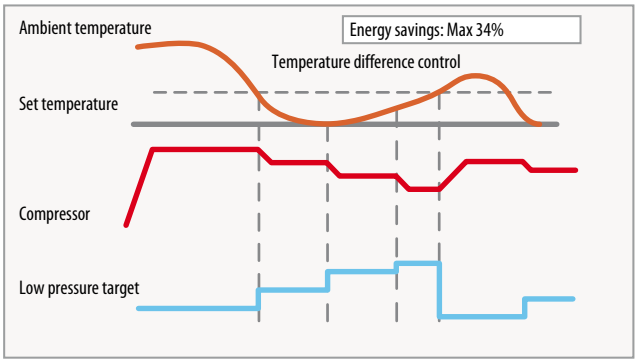
With VRF-T technology, refrigerant temperature control during the condensation and evaporation phases in the refrigerant system ensures energy savings up to 34% in cooling mode during the partial loads, compared to the traditional VRF models.

Traditional system cooling operation



In a traditional system, the refrigerant target pressure to be maintained is constant. As soon as room temperature reaches the temperature set by the user, the compressor is forced to decrease and increase the rpm by on-off cycles that affect the overall efficiency and performance.

KXZ system cooling operation with activation of VRF-T mode



With the new VRF-T, the refrigerant target pressure to be maintained is not constant, but adjusts proportionally to the difference between the room temperature and the desired temperature. This allows the Inverter compressors to modulate the rpm without ever stopping, thus expressing the maximum efficiency for a global energy saving operation.

MICRO LARGE CONNECTION

8~12HP (22.4~33.5 kW)

BLUE FIN

REFRIGERANT CONNECTIONS

HP		8	10	12
Liquid side	Furthest I.U. =<90 m	ø9.52		ø12.7
Gas side		ø19.05	ø22.22	ø25.4
Liquid side	Furthest I.U. =>90 m	ø12.7		
Gas side		ø22.22	ø25.4	

BRANCH PIPES

DIS-22-1B
DIS-180-1B

DIS-371-1B

MANIFOLDS

HEAD4-22-1B
HEAD6-180-1B
HEAD8-371-2B

Outdoor unit model			FDC 224 KXZME1	FDC 280 KXZME1	FDC 335 KXZME1A
Power class		**HP**	**8**	**10**	**12**
Nominal data					
Rated capacity	Cooling	kW	22.40	28.00	33.50
Rated power input		kW	5.59	7.90	10.68
Rated energy efficiency coefficient		EER[1]	4.01	3.54	3.14
Rated capacity	Heating	kW	22.40	28.00	33.50
Rated power input		kW	4.97	6.53	8.44
Rated energy performance coefficient		COP[1]	4.51	4.29	3.97
Seasonal data					
Seasonal energy efficiency index	Cooling	SEER[2]	6.55	6.03	5.84
Seasonal performance coefficient	Heating	SCOP[2]	4.55	4.54	4.04
Seasonal energy efficiency (ηs)		%	179.00	178.60	158.60
Electrical data					
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz		
Rated current	Cooling	A	9.40	12.80	17.80
	Heating	A	7.80	10.50	14.40
Maximum current		A	20.00	20.00	23.00
Refrigerant circuit data					
Refrigerant[3]		type (GWP)	R410A (2088)		
Q.ty of refrigerant pre-charge (tons of CO2 equivalent)		kg	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)
Piping diameter	Liquid	inch (mm)	3/8" (9.52)	3/8" (9.52)	1/2" (12.7)
	Gas		3/4" (19.05)	7/8" (22.22)	1" (25.4)
Product specifications					
Dimensions	HxLxD	mm	1675x1080x480	1675x1080x480	1675x1080x480
Net weight		kg	221	221	224
Sound power level	Max	dB(A)	75	76	77
Sound pressure level	Max	dB(A)	59	60	62
Volume of air treated	Standard	m³/h	12000	12000	12000
Fan static pressure	Max	Pa	35	35	35
Operating range (outdoor temperature)	Cooling	°C	-15~43	-15~43	-15~43
	Heating	°C	-20~15.5	-20~15.5	-20~15.5
Connectable indoor units	**Min ~ Max**	**nb.**	**1 ~ 22**	**1 ~ 24**	**1 ~ 24**
	Capacity	**%**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2 , over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

HEAT PUMP KXZ

VRF-T

MICRO SMART

CONNECT UP TO 8 INDOOR UNITS/120% CAPACITY

FDC 224 KXZPE1
22.4 kW 3-Phase

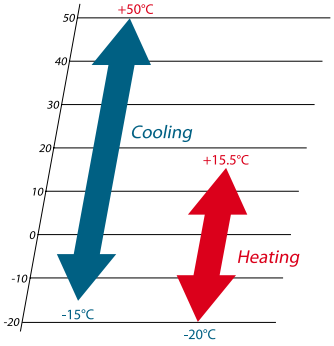
FDC 280 KXZPE1
28.0 kW 3-Phase

FEATURES

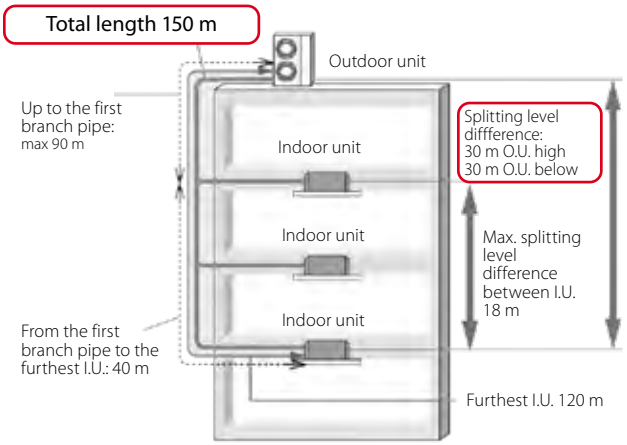
- Maximum energy efficiency: COP 4.67 (8HP)
- Only DC Inverter compressors
- High splitting distance: up to 150 m in total and with a max. distance between the O.U. and the furthest I.U. of 120 m
- Compressor speed control

BLUE FIN

OPERATING RANGE



INSTALLATION DIAGRAM



8~10HP (22.4~28.0 kW)

REFRIGERANT CONNECTIONS

HP		8	10
Liquid side	Furthest I.U. =<90 m	ø9.52	
Gas side		ø19.05	ø22.22
Liquid side	Furthest I.U. =>90 m	ø 12.7	
Gas side		ø22.22	ø25.4/ø28.58

BRANCH PIPES

DIS-22-1B
DIS-180-1B

DIS-371-1B

MANIFOLDS

HEAD4-22-1B
HEAD6-180-1B
HEAD8-371-2B

Outdoor unit model			FDC 224 KXZPE1	FDC 280 KXZPE1
Power class		**HP**	**8**	**10**
Nominal data				
Rated capacity	Cooling	kW	22.40	28.00
Rated power input		kW	5.60	7.87
Rated energy efficiency coefficient		EER[1]	4.00	3.56
Rated capacity	Heating	kW	22.40	28.00
Rated power input		kW	4.80	6.47
Rated energy performance coefficient		COP[1]	4.67	4.33
Seasonal data				
Seasonal energy efficiency index	Cooling	SEER[2]	6.65	6.68
Seasonal performance coefficient	Heating	SCOP[2]	4.34	4.50
Seasonal energy efficiency (ηs)		%	170.60	177.00
Electrical data				
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz	
Rated current	Cooling	A	9.20	12.90
	Heating	A	7.90	10.50
Maximum current		A	21.00	22.00
Refrigerant circuit data				
Refrigerant[3]		type (GWP)	R410A (2088)	
Q.ty of refrigerant pre-charge (tons of CO2 equivalent)		kg	8.9 (18.583)	8.9 (18.583)
Piping diameter	Liquid	inch (mm)	3/8" (9.52)	3/8" (9.52)
	Gas		3/4" (19.05)	7/8" (22.22)
Product specifications				
Dimensions	HxLxD	mm	1505x970x370	1505x970x370
Net weight		kg	165	165
Sound power level	Max	dB(A)	73	76
Sound pressure level	Max	dB(A)	60	63
Volume of air treated	Standard	m³/h	7800	8100
Fan static pressure	Max	Pa	35	35
Operating range (outdoor temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-20~15.5	-20~15.5
Connectable indoor units	**Min ~ Max**	**nb.**	**1 ~ 8**	**1 ~ 8**
	Capacity	**%**	**50 ~ 120**	**50 ~ 120**

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2 , over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

KXZ2 VRF-T SYSTEM

The best solution for air conditioning "sophisticated" buildings

High air conditioning performance for all commercial applications.
Comfort and energy efficiency, application flexibility, intuitive and customizable controls, maintenance and management made even easier.

10~12HP
(28.0~33.5 kW)

14~20HP
(40.0~56.0 kW)

MITSUBISHI HEAVY INDUSTRIES

VRF-T

KXZ2

CONNECT UP TO 44 INDOOR UNITS/ 200% CAPACITY

FDC 280 KXZE2 28.0 kW

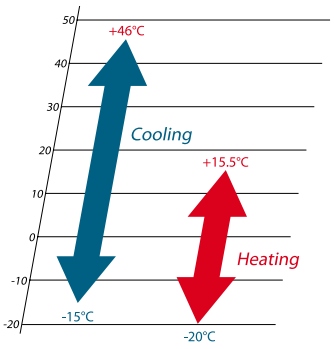
FDC 335 KXZE2 33.5 kW

FEATURES

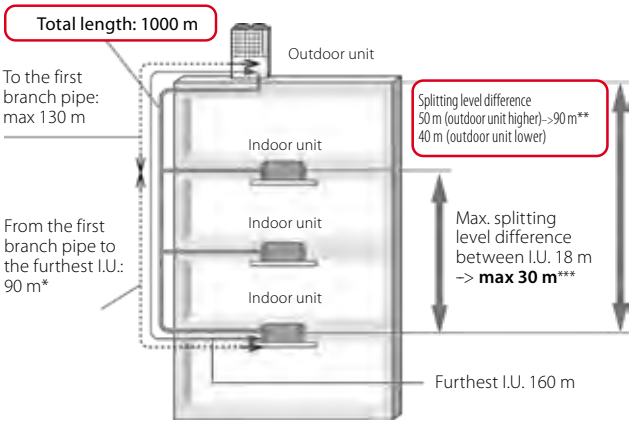
- Maximum energy efficiency: COP 4.25 and EER 3.86 [10 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

10~12HP (28.0~33.5 kW)

OPERATING RANGE



INSTALLATION DIAGRAM



* With difference of length between the farthest indoor unit and the nearest one from the first branch pipe < 40 m (MAX 85 m).
** Comply with installation conditions. For details, refer to the Technical Manual.
*** It is necessary to change the corresponding setting of each difference in level during installation. Range of use also varies.

Outdoor unit model			FDC 280 KXZE2	FDC 335 KXZE2
Power class		HP	10	12
Nominal data				
Rated capacity	Cooling	kW	28.00	33.50
Rated power input		kW	7.25	8.98
Rated energy efficiency coefficient		EER[1]	3.86	3.73
Rated capacity	Heating	kW	31.50	37.5
Rated power input		kW	7.41	9.03
Rated energy performance coefficient		COP[1]	4.25	4.15
Seasonal data				
Seasonal energy efficiency index	Cooling	SEER[2]	7.30	7.54
Seasonal performance coefficient	Heating	SCOP[2]	4.88	4.68
Seasonal energy efficiency (ηs)		%	192.20	184.20
Electrical data				
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz	
Rated current	Cooling	A	12.00	14.70
	Heating	A	12.20	14.80
Maximum current		A	20.10	20.10
Refrigerant circuit data				
Refrigerant[3]		Type (GWP)	R410A (2088)	
Q.ty of refrigerant pre-charge[4] (tons of CO2 equivalent)		kg	11 (22.968)	11 (22.968)
Piping diameter	Liquid	inch (mm)	3/8" (9.52)	1/2" (12.7)
	Gas		7/8" (22.22)	1" (25.4)
Product specifications				
Dimensions	HxLxD	mm	1697x1350x720	1697x1350x720
Net weight		kg	288	288
Sound power level	Max	dB(A)	76	82
Sound pressure level	Max	dB(A)	57	63
Volume of air treated	Standard	m³/h	13500	17640
Fan static pressure	Max	Pa	85	85
Operating range (outdoor temperature)	Cooling	°C	-15~46	-15~46
	Heating	°C	-20~15.5	-20~15.5
Connectable indoor units[5]	Min ~ Max	nb.	1 ~ 37	1 ~ 44
	Capacity	%	50 ~ 200	50 ~ 200

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2 , over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

KXZ2

CONNECT UP TO 59 INDOOR UNITS/ 160% (FDC 400~450 KXZE2 200%) CAPACITY

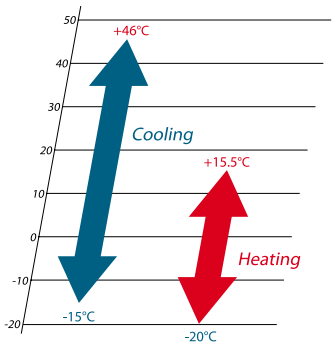
FDC 400 KXZE2 40.0 kW
FDC 450 KXZE2 45.0 kW
FDC 475 KXZE2 47.5 kW
FDC 500 KXZE2 50.0 kW
FDC 560 KXZE2 56.0 kW

CARATTERISTICHE

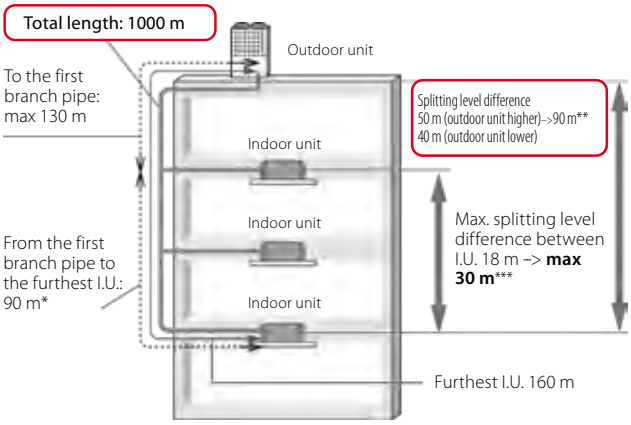
- Maximum energy efficiency: COP 4.40 and EER 3.64 [14 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

14~20HP (40.0~56.0 kW)

OPERATING RANGE



INSTALLATION DIAGRAM



* With difference of length between the farthest indoor unit and the nearest one from the first branch pipe < 40 m (MAX 85 m).
** Comply with installation conditions. For details, refer to the Technical Manual.
*** It is necessary to change the corresponding setting of each difference in level during installation. Range of use also varies.

Outdoor unit model			FDC 400 KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2
Power class		**HP**	**14**	**16**	**17**	**18**	**20**
Nominal data							
Rated capacity	Cooling	kW	40.00	45.00	47.50	50.00	56.00
Rated power input		kW	10.98	13.98	13.97	14.01	17.50
Rated energy efficiency coefficient		EER[1]	3.64	3.22	3.40	3.57	3.20
Rated capacity	Heating	kW	45.00	50.00	53.00	56.00	63.00
Rated power input		kW	10.23	12.50	12.99	13.56	16.15
Rated energy performance coefficient		COP[1]	4.40	4.00	4.08	4.13	3.90
Seasonal data							
Seasonal energy efficiency index	Cooling	SEER[2]	7.12	7.01	6.84	7.29	6.73
Seasonal performance coefficient	Heating	SCOP[2]	4.87	4.36	4.45	4.58	4.30
Seasonal energy efficiency (ηs)		%	191.80	171.40	175.00	180.20	169.00
Electrical data							
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz				
Rated current	Cooling	A	17.60	22.40	22.60	22.60	26.90
	Heating	A	16.70	20.40	21.00	21.90	26.10
Maximum current		A	32.00	32.00	40.20	40.20	40.20
Refrigerant circuit data							
Refrigerant[3]		Type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge[4] (tons of CO2 equivalent)		kg	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)
Piping diameter	Liquid	inch (mm)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)
	Gas		1" (25.4)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)
Product specifications							
Dimensions	HxLxD	mm	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720
Net weight		kg	332	332	378	378	378
Sound power level	Max	dB(A)	82	82	81	82	83
Sound pressure level	Max	dB(A)	62	62	61	62	64
Volume of air treated	Standard	m³/h	18240	18240	18000	18000	18000
Fan static pressure	Max	Pa	85	85	85	85	85
Operating range (outdoor temperature)	Cooling	°C	-15~46	-15~46	-15~46	-15~46	-15~46
	Heating	°C	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**1 ~ 53**	**1 ~ 60**	**1 ~ 50**	**1 ~ 53**	**1 ~ 59**
	Capacity	**%**	**50 ~ 200**	**50 ~ 200**	**50 ~ 160**	**50 ~ 160**	**50 ~ 160**

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2 , over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

VRF-T

KXZ2

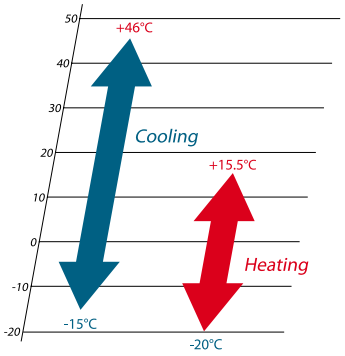
CONNECT UP TO 71 INDOOR UNITS/160% CAPACITY

FDC 615 KXZE2 (FDC 280+FDC 335) 61.5 kW
FDC 670 KXZE2 (FDC 335+FDC 335) 67.0 kW

FEATURES

- Maximum energy efficiency: COP 4.20 and EER 3.79 [22 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



22~24HP
(61.5~67.0 kW)

COMBINATIONS

Outdoor unit model			FDC 615 KXZE2	FDC 670 KXZE2
Combinations			FDC 280 KXZE2	FDC 335 KXZE2
			FDC 335 KXZE2	FDC 335 KXZE2
			-	-
Power class		**HP**	**22**	**24**
Rated capacity	Cooling	kW	61.50	67.00
Rated power input		kW	16.24	17.96
Rated energy efficiency coefficient		EER[1]	3.79	3.73
Rated capacity	Heating	kW	69.00	75.00
Rated power input		kW	16.44	18.06
Rated energy performance coefficient		COP[1]	4.20	4.15
Seasonal data				
Seasonal energy efficiency index	Cooling	SEER[6]	7.42	7.54
Seasonal performance coefficient	Heating	SCOP[6]	4.92	4.68
Seasonal energy efficiency (ηs)		%	193.90	184.30
Electrical data				
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz	
Rated current	Cooling	A	26.70	29.40
	Heating	A	27.00	29.60
Maximum current		A	40.20	40.20
Refrigerant circuit data				
Refrigerant[2]		Type (GWP)	R410A (2088)	
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	22 (45.936)	22 (45.936)
Piping diameter[4]	Liquid	inch (mm)	1/2" (12.7)	1/2" (12.7)
	Gas		1-1/8" (28.58)	1-1/8" (28.58)
	Oil balancing		3/8" (9.52)	3/8" (9.52)
Product specifications				
Dimensions	HxLxD	mm	1697x2700x720	1697x2700x720
Net weight		kg	576	576
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**2 ~ 65**	**2 ~ 71**
	Capacity	**%**	**50 ~ 160**	**50 ~ 160**

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

KXZ2

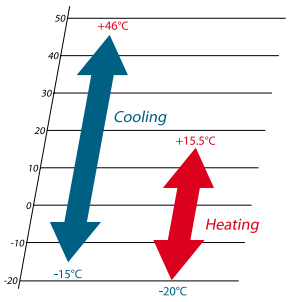
CONNECT UP TO 80 INDOOR UNITS/160% CAPACITY (FDC 1000~1120 KXZE2 130%)

FDC 735 KXZE2 (FDC 335+FDC 400) 73.5 kW
FDC 800 KXZE2 (FDC 400+FDC 400) 80.0 kW
FDC 850 KXZE2 (FDC 400+FDC 450) 85.0 kW
FDC 900 KXZE2 (FDC 450+FDC 450) 90.0 kW
FDC 950 KXZE2 (FDC 475+FDC 475) 95.0 kW
FDC 1000 KXZE2 (FDC 500+FDC 500) 100.0 kW
FDC 1060 KXZE2 (FDC5 00+FDC 560) 106.0 kW
FDC 1120 KXZE2 (FDC 560+FDC 560) 112.0 kW

FEATURES

- Maximum energy efficiency: COP 4.40 (28HP); EER 3.68 [26 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



26HP (73.5 kW)

28~40HP (80.0~112.0 kW)

COMBINATIONS

Outdoor unit model			FDC 735 KXZE2	FDC 800 KXZE2	FDC 850 KXZE2	FDC 900 KXZE2	FDC 950 KXZE2	FDC 1000 KXZE2	FDC 1060 KXZE2	FDC 1120 KXZE2
Combinations			FDC 335 KXZE2	FDC 400 KXZE2	FDC 400KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2
			FDC 400 KXZE2	FDC 400 KXZE2	FDC 450 KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2	FDC 560 KXZE2
			-	-	-	-	-	-	-	-
Power class		HP	26	28	30	32	34	36	38	40
Rated capacity	Cooling	kW	73.50	80.00	85.00	90.00	95.00	100.00	106.00	112.00
Rated power input	Cooling	kW	19.96	21.96	24.96	27.95	27.94	28.02	31.51	35.00
Rated energy efficiency coefficient	Cooling	EER[1]	3.68	3.64	3.41	3.22	3.40	3.57	3.36	3.20
Rated capacity	Heating	kW	82.50	90.00	95.00	100.00	106.00	112.00	119.00	126.00
Rated power input	Heating	kW	19.26	20.45	22.73	25	25.98	27.12	29.71	32.31
Rated energy performance coefficient	Heating	COP[1]	4.28	4.40	4.18	4.00	4.08	4.13	4.01	3.90
Seasonal data										
Seasonal energy efficiency index	Cooling	SEER[6]	7.27	7.12	7.05	7.01	6.84	7.29	6.98	6.73
Seasonal performance coefficient	Heating	SCOP[6]	4.77	4.87	4.57	4.36	4.45	4.58	4.43	4.30
Seasonal energy efficiency (ηs)	Heating	%	187.60	191.80	179.70	171.40	175.10	180.20	174.20	169.00
Electrical data										
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz							
Rated current	Cooling	A	32.30	35.20	40.00	44.80	45.20	45.20	49.50	53.80
Rated current	Heating	A	31.50	33.40	37.10	40.80	42.00	43.80	48.00	52.20
Maximum current		A	52.10	64.00	64.00	64.00	80.40	80.40	80.40	80.40
Refrigerant circuit data										
Refrigerant[2]		Type (GWP)	R410A (2088)							
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	22.5 (46.980)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)
Piping diameter[4]	Liquid	inch (mm)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	3/4" (19.05)	3/4" (19.05)
Piping diameter[4]	Gas	inch (mm)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)
Piping diameter[4]	Oil balancing	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications										
Dimensions	HxLxD	mm	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720	2052x2700x720
Net weight		kg	620	664	664	664	756	756	756	756
Connectable indoor units[5]	Min ~ Max	nb.	2 ~ 78	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80
Connectable indoor units[5]	Capacity	%	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 130	50 ~ 130	50 ~ 130

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

VRF-T

KXZ2

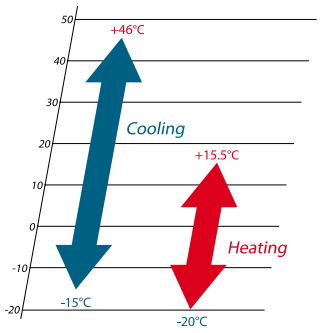
CONNECT UP TO 80 INDOOR UNITS/130% CAPACITY

FDC 1200 KXZE2 (FDC 400+FDC 400+FDC 400) 120.0 kW
FDC 1250 KXZE2 (FDC 400+FDC 400+FDC 450) 125.0 kW
FDC 1300 KXZE2 (FDC 400+FDC 450+FDC 450) 130.0 kW
FDC 1350 KXZE2 (FDC 450+FDC 450+FDC 450) 135.0 kW
FDC 1425 KXZE2 (FDC 475+FDC 475+FDC 475) 142.5 kW
FDC 1450 KXZE2 (FDC 475+FDC 475+FDC 500) 145.0 kW
FDC 1500 KXZE2 (FDC 500+FDC 500+FDC 500) 150.0 kW
FDC 1560 KXZE2 (FDC 500+FDC 500+FDC 560) 156.0 kW
FDC 1620 KXZE2 (FDC 500+FDC 560+FDC 560) 162.0 kW
FDC 1680 KXZE2 (FDC 560+FDC 560+FDC 560) 168.0 kW

FEATURES

- Maximum energy efficiency: COP 4.40 and EER 3.64 [42 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the further I.U. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



42~60HP
(120.0~168.0 kW)

COMBINATIONS

Outdoor unit model			FDC 1200 KXZE2	FDC 1250 KXZE2	FDC 1300 KXZE2	FDC1 350 KXZE2	FDC 1425 KXZE2	FDC 1450 KXZE2	FDC 1500 KXZE2	FDC 1560 KXZE2	FDC 1620 KXZE2	FDC 1680 KXZE2
Combinations			FDC 400 KXZE2	FDC 400 KXZE2	FDC 400 KXZE2	FDC 450 KXZE2	FDC 475 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 500 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2
			FDC 400 KXZE2	FDC 400 KXZE2	FDC450 KXZE2	FDC450 KXZE2	FDC 475 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2	FDC 560 KXZE2
			FDC 400 KXZE2	FDC 450 KXZE2	FDC 450 KXZE2	FDC450 KXZE2	FDC 475 KXZE2	FDC 500 KXZE2	FDC 500 KXZE2	FDC 560 KXZE2	FDC 560 KXZE2	FDC 560 KXZE2
Power class		HP	42	44	46	48	50	52	54	56	58	60
Rated capacity	Cooling	kW	120.00	125.00	130.00	135.00	142.50	145.00	150.00	156.00	162.00	168.00
Rated power input	Cooling	kW	32.94	35.94	38.93	41.93	41.91	41.95	42.03	45.52	49.01	52.50
Rated energy efficiency coefficient	Cooling	EER[1]	3.64	3.48	3.34	3.22	3.40	3.46	3.57	3.43	3.31	3.20
Rated capacity	Heating	kW	135.00	140.00	145.00	150.00	159.00	162.00	168.00	175.00	182.00	189.00
Rated power input	Heating	kW	30.68	32.95	35.23	37.50	38.97	39.54	40.68	43.27	45.87	48.46
Rated energy performance coefficient	Heating	COP[1]	4.40	4.25	4.12	4.00	4.08	4.10	4.13	4.04	3.97	3.90
Seasonal data												
Seasonal energy efficiency index	Cooling	SEER[6]	7.12	7.07	7.03	7.01	6.84	6.99	7.29	7.08	7.08	6.73
Seasonal performance coefficient	Heating	SCOP[6]	4.87	4.66	4.49	4.36	4.45	4.49	4.58	4.48	4.48	4.30
Seasonal energy efficiency (ηs)	Heating	%	191.80	183.40	176.40	171.40	175.10	176.50	180.20	176.10	176.10	169.00
Electrical data												
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz									
Rated current	Cooling	A	52.80	57.60	62.40	67.20	67.80	67.80	67.80	72.10	76.40	80.70
Rated current	Heating	A	50.10	53.80	57.50	61.20	63.00	63.90	65.70	69.90	74.10	78.30
Maximum current		A	96.00	96.00	96.00	96.00	120.60	120.60	120.60	120.60	120.60	120.60
Refrigerant circuit data												
Refrigerant[2]		Type (GWP)	R410A (2088)									
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)
Piping diameter[4]	Liquid	inch (mm)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)
Piping diameter[4]	Gas	inch (mm)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)
Piping diameter[4]	Oil balancing	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications												
Dimensions	HxLxD	mm	2052x4050x720									
Net weight		kg	996	996	996	996	1134	1134	1134	1134	1134	1134
Connectable indoor units[5]	Min ~ Max	nb.	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80
Connectable indoor units[5]	Capacity	%	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

KXZX2 Hi-COP VRF-T MODULAR SYSTEM

Record efficiency in heating and cooling

Greater energy efficiency with KXZX2 heat pump systems,
in any combination of outdoor units.

10HP
(28.0 kW)

12~14HP
(33.5~40.0 kW)

MITSUBISHI HEAVY INDUSTRIES

VRF-T

KXZX2 Hi-COP

Combinations 20~40HP (56.0~113.5 kW)

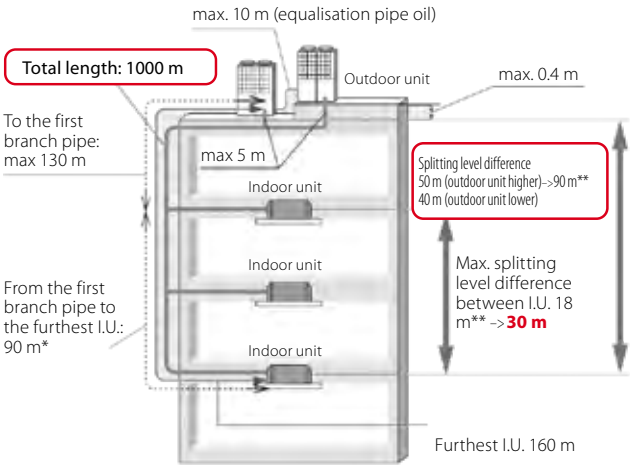
CONNECT UP TO 80 INDOOR UNITS/160% (FDC 1000~1120 KXZE2 130%) CAPACITY

FDC 560 KXZXE2 (FDC 280+FDC 280)	56,0 kW
FDC 850 KXZXE2 (FDC 280+FDC 280+FDC 280)	84,0 kW
FDC 900 KXZXE2 (FDC 280+FDC 280+FDC 335)	89,5 kW
FDC 950 KXZXE2 (FDC 280+FDC 335+FDC 335)	95,0 kW
FDC 1000 KXZXE2 (FDC 335+FDC 335+FDC 335)	100,5 kW
FDC 1060 KXZXE2 (FDC 280+FDC 335+FDC 400)	107,0 kW
FDC 1120 KXZXE2 (FDC 335+FDC 400+FDC 400)	113,5 kW

Hi-COP FEATURES

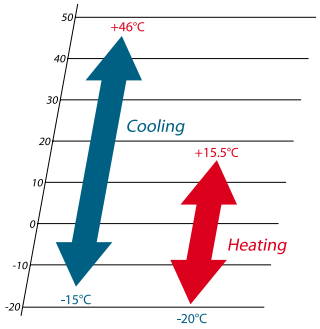
- High efficiency
- Reduced consumption
- High energy saving

INSTALLATION DIAGRAM



* With difference of length between the farthest indoor unit and the nearest one from the first branch pipe <40 m. (MAX 85 m).
** Comply with installation conditions. For details, refer to the Technical Manual.

OPERATING RANGE



FEATURES

- Maximum energy efficiency: COP 4.32 (40HP) and EER 3.86 (20HP)
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

20HP (56.0 kW)

30~36HP (84.0~100.5 kW)

38HP (107.0 kW)

40HP (113.5 kW)

KXZX2 Hi-COP

COMBINATIONS

Outdoor unit model			FDC 560 KXZXE2	FDC 850 KXZXE2	FDC 900 KXZXE2
Combinations			FDC 280 KXZE2	FDC 280 KXZE2	FDC 280 KXZE2
			FDC 280 KXZE2	FDC 280 KXZE2	FDC 280 KXZE2
			-	FDC 280 KXZE2	FDC 335 KXZE2
Power class		HP	20	30	32
Rated capacity	Cooling	kW	56.00	84.00	89.50
Rated power input		kW	14.51	21.76	23.49
Rated energy efficiency coefficient		EER1	3.86	3.86	3.81
Rated capacity	Heating	kW	63.00	94.50	100.50
Rated power input		kW	14.82	22.23	23.85
Rated energy performance coefficient		COP1	4.25	4.25	4.21
Seasonal data					
Seasonal energy efficiency index	Cooling	SEER6	7.30	7.30	7.38
Seasonal performance coefficient	Heating	SCOP6	5.25	5.25	5.02
Seasonal energy efficiency (ηs)		%	206.90	206.90	197.80
Electrical data					
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz		
Rated current	Cooling	A	24.00	36.00	38.70
	Heating	A	24.40	36.60	39.20
Maximum current		A	40.20	60.30	60.30
Refrigerant circuit data					
Refrigerant2		Type (GWP)	R410A (2088)		
Q.ty of refrigerant pre-charge3 (tons of CO2 equivalent)		kg	22 (45.936)	33 (68.904)	33 (68.904)
Piping diameter4	Liquid	inch (mm)	1/2" (12.7)	5/8" (15.88)	5/8" (15.88)
	Gas		1-1/8" (28.58)	1-1/4" (31.75)	1-1/4" (31.75)
	Oil balancing		3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications					
Dimensions	HxLxD	mm	1697x2700x720	1697x4050x720	1697x4050x720
Net weight		kg	576	864	864
Connectable indoor units5	Min ~ Max	nb.	2 ~ 59	3 ~ 80	3 ~ 80
	Capacity	%	80 ~ 160	80 ~ 160	80 ~ 160

Outdoor unit model			FDC 950 KXZXE2	FDC 1000 KXZXE2	FDC 1060 KXZXE2	FDC 1120 KXZXE2
Combinations			FDC 280 KXZE2	FDC 335 KXZE2	FDC 335 KXZE2	FDC 335 KXZE2
			FDC 335 KXZE2	FDC 335 KXZE2	FDC 335 KXZE2	FDC 400 KXZE2
			FDC 335 KXZE2	FDC 335 KXZE2	FDC 400 KXZE2	FDC 400 KXZE2
Power class		HP	34	36	38	40
Rated capacity	Cooling	kW	95.00	100.50	107.00	113.50
Rated power input		kW	25.22	26.94	28.94	30.94
Rated energy efficiency coefficient		EER1	3.77	3.73	3.70	3.67
Rated capacity	Heating	kW	106.50	112.50	120.00	127.50
Rated power input		kW	25.47	27.09	28.29	29.48
Rated energy performance coefficient		COP1	4.18	4.15	4.24	4.32
Seasonal data						
Seasonal energy efficiency index	Cooling	SEER6	7.46	7.54	7.34	7.21
Seasonal performance coefficient	Heating	SCOP6	4.84	4.68	4.75	4.80
Seasonal energy efficiency (ηs)		%	190.40	184.30	187.10	189.00
Electrical data						
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz			
Rated current	Cooling	A	41.40	44.10	47.00	49.90
	Heating	A	41.80	44.40	46.30	48.20
Maximum current		A	60.30	60.30	72.20	84.10
Refrigerant circuit data						
Refrigerant2		Type (GWP)	R410A (2088)			
Q.ty of refrigerant pre-charge3 (tons of CO2 equivalent)		kg	33 (68.904)	33 (68.904)	33.5 (69.948)	34 (70.992)
Piping diameter4	Liquid	inch (mm)	5/8" (15.88)	5/8" (15.88)	3/4" (19.05)	3/4" (19.05)
	Gas		1-1/4" (31.75)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)
	Oil balancing		3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications						
Dimensions	HxLxD	mm	1697x4050x720	1697x4050x720	2052x4050x720	2052x4050x720
Net weight		kg	864	864	908	952
Connectable indoor units5	Min ~ Max	nb.	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80
	Capacity	%	80 ~ 160	80 ~ 130	80 ~ 130	80 ~ 130

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

HEAT RECOVERY KXZR2 SYSTEM

The new KXZR2 features a tiered design and a completely new shape. Thanks to the 3-pipe system, a single outdoor unit can simultaneously heat or cool several indoor units.

SIMULTANEOUS HEATING AND COOLING

- Heat recovery.
- An extensive range of applications.
- Flexibility of the design.
- Better low temperature cooling capacity.
- Easy maintenance.

KXZRE2

NEW DESIGN AND ENHANCED COMPONENTS

- Rounded shape.
- Next-generation compressor that reduces friction between components.
- New Inverter control.
- High-efficiency heat exchanger.
- Optimised pipeline shape.

KXZRXE2 Hi-COP

SYSTEM CHARACTERISTICS

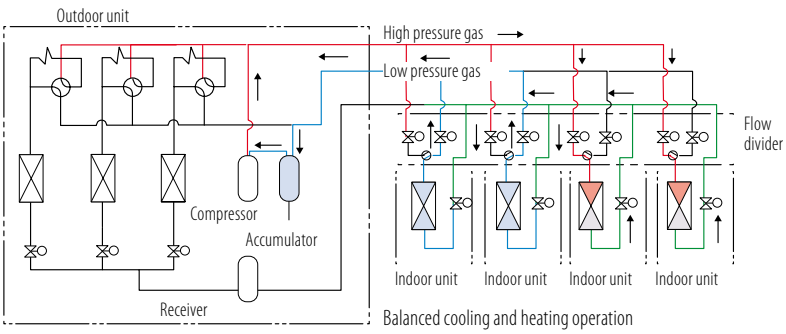
These heat recovery systems work with 3 interconnecting pipes and therefore are commonly referred to as 3-pipe systems. These systems offer both heating and cooling in a single indoor unit, based on the room conditions/ requirements. The systems incorporate a highly sophisticated air conditioning control for multiple indoor areas, regardless of the cooling or heating needs, for applications where the building orientation (N, S, E, W) may result in a heat increase/loss on different sides of the same building.

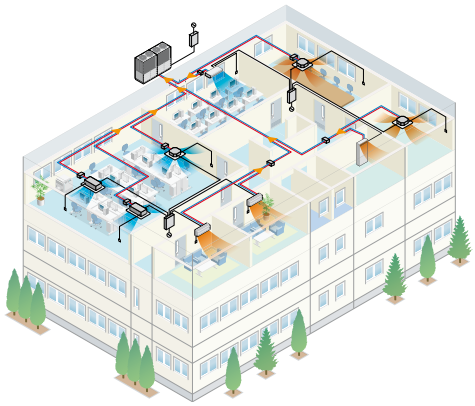
The range starts from a cooling capacity of 8 HP (22.4 kW), up to 24HP (67.0 kW).

The outdoor units can also be installed in "pairs" or in "triple combination", reaching 60HP/168.0 kW on a single system.

HEAT RECOVERY SYSTEMS

The interconnection piping system has a unique arrangement with two of the interconnecting pipes passing through a PFD distribution controller and the third tube connected directly to each indoor unit from the main pipe path.
This reduces installation times and the number of braze-welded connections on the site. The PFD distribution controllers are available for single connection or as a 4-way combined PFD connection, with each connected unit characterised by independent cooling or heating.





During defrost or during automatic compressor protection, activated every hour during heating, the heating operation stops and restarts temporarily after a specific time interval.

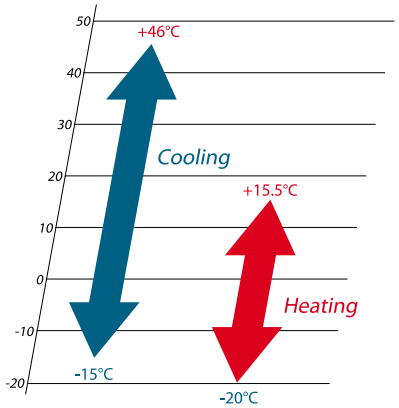
The series is equipped with the same automatic compressor protection even in cooling mode.

During this protection period, only the air flow is active and the cooling operation restarts at the end of a specific time interval.

This model is not suitable for the use of annual cooling operations, for example for the server room, especially in areas where the outdoor air temperature falls below 5° C.

WIDE RANGE OF OPERATION

The KXZR series has an an extensible system design, considering a heating range at low temperature conditions down to -20° C, and a cooling range up to 46° C (previous model: 43° C).



CONNECTABLE INDOOR UNITS

It is possible to connect up to 80 indoor units to the outdoor unit of greater power size. 14 different types of indoor units are available, visible or recessed, in different sizes, for a total of 81 overall possibilities.

DESIGN FLEXIBILITY

Total power of the indoor units

HP	KXZR
8~16	**200%**
17~34	**160%**
36~60	130%

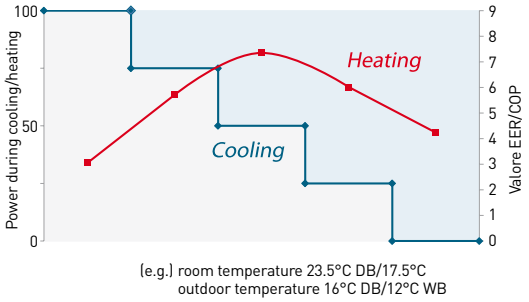
- Where total power is higher than 130%, an additional refrigerant charge is required on site.
- With 8-34HP systems, if one or more of the FDK, FDFL, FDFU and/or FDFW series are connected to the system, the total power of the indoor units cannot exceed 130%.

SYSTEM CHARACTERISTICS

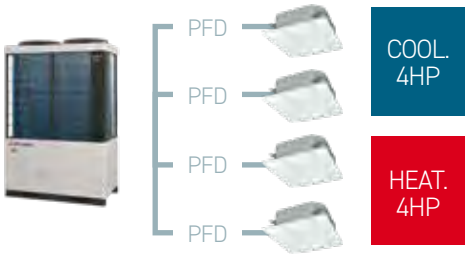
ENERGY EFFICIENCY IN HEAT RECOVERY MODE

High efficiency when cooling and heating occur simultaneously. System control maximises efficiency up to a maximum COP of 9.0* in both cooling and heating mode.

* Data obtained at 8HP in an outdoor temperature condition of 16°C DB/12°C WB, in a refrigerated room of 27°C DB/19°C WB, and in a heated room of 20°C DB/14.5°C WB.



(e.g.) room temperature 23.5°C DB/17.5°C
outdoor temperature 16°C DB/12°C WB



MAX COP > 9.0

Conditions:
FDC 224 KXZRE2
50% indoor units in cooling mode (27°C DB/19°C)
50% indoor units in heating mode (20°C DB/14.5°C)
Outdoor temperature 16°C DB/12°C WB

IMPROVED COOLING CAPACITY AT LOW OUTDOOR TEMPERATURE

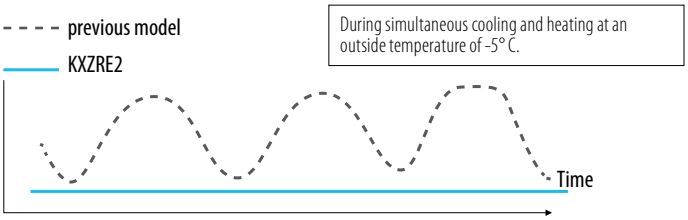
The small partitions of the exchanger and the internal pressure control allow the outdoor unit to operate in cooling mode even in low outdoor temperature conditions, for greater capacity with very low temperatures (-5° C) compared to the previous model.

In the previous model, in the presence of a strong heating demands and simultaneous low cooling demands in low outdoor temperature conditions, the pressure control is adjusted to maintain a greater heating power compared to a sufficient cooling power.

The new heat exchanger and pressure control adopted in the KXZR series has improved operating efficiency in heating and cooling*.

* The cooling system has priority for the required heating mode compared to a very low cooling demand, where most of the indoor units are used in heating mode.

Supply air temperature in the cooled room



REFRIGERANT CONNECTIONS

VRF-T systems are manufactured to the highest standards of quality and reliability and it is therefore essential for the installation procedures and materials to have the same qualitative features, to ensure trouble-free long-term operation. It is advisable to use high quality copper refrigerant piping, in coils or in straight, semi-rigid lengths. The copper piping should be chosen considering the higher operating pressure of R410A refrigerant gas and the increased pressure circulating in the system produced by reverse cycle operation. All materials used must comply with European standards (EN 12735). The branch pipe kits supplied must be used to connect the indoor units and the manifold kits must be used to connect the outdoor units (if necessary). It is forbidden to use standard accessories (elbow pipes, T-joints etc.). The branch pipes must be installed according to manufacturer guidelines and must allow a continuous flow of refrigerant in accordance with European standard E378: 2017.

All connecting welds must be made under slight nitrogen pressure to prevent the oxidation of the inner surface of the copper pipes. During installation, no accidental entry of condensate, dust or any other contaminant must be permitted. Once installation is complete, a leak test must be carried out to check for refrigerant leaks with pressurised nitrogen. The ends of the pipe must be bent and welded and an appropriate service valve affixed.

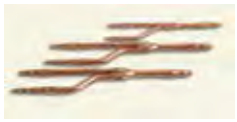
Additional refrigerant charge

Only R410A refrigerant gas must be used, and this must be added by weight using an electronic meter. The amount of additional refrigerant must be carefully calculated according to the manufacturer's guidelines, defined by the length and diameter of each section of the system piping.

If the longest distance (measured between the outdoor unit and the furthest indoor unit) is 90 m or more (actual length), change the size of the main pipe according to the following table.Even if the longest distance exceeds 90 m (actual length), it is not necessary to change the size of the exhaust gas pipes.

HP		8	10	12	14	16	17	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
Liquid side	Futhest I.U. =<90 m	ø 9.52		ø 12.7								ø 15.88						ø 19.05											
Intake gas		ø 19.05	ø 22.22		ø 28.58							ø 34.92																	
Delivery gas		ø 15.88	ø 19.05		ø 22.22							ø 28.58																	
Liquid side	Furthest I.U. =>90 m	ø 12.7					ø 15.88					ø 19.05						ø 22.22											
Intake gas		ø 22.22			ø 28.58							ø 34.92																	
Delivery gas		ø 15.88	ø 19.05		ø 22.22							ø 28.58																	

BRANCH PIPES

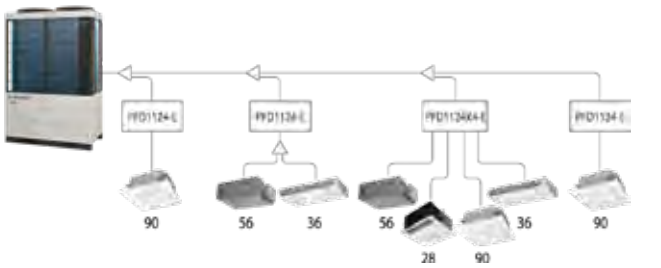


DIS-22-1RB/DIS-180-1RB

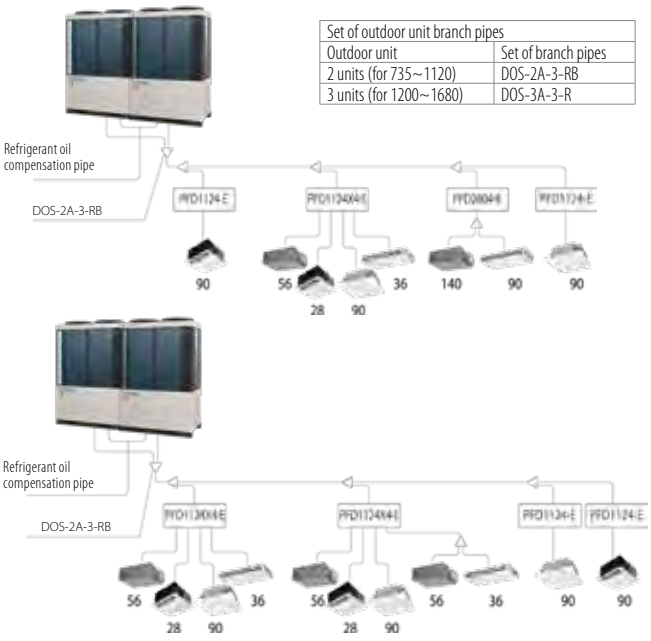
MANIFOLDS

DOS-2A-3-RB

SINGLE OUTDOOR UNIT



COMBINED OUTDOOR UNITS



Set of outdoor unit branch pipes	
Outdoor unit	Set of branch pipes
2 units (for 735~1120)	DOS-2A-3-RB
3 units (for 1200~1680)	DOS-3A-3-R

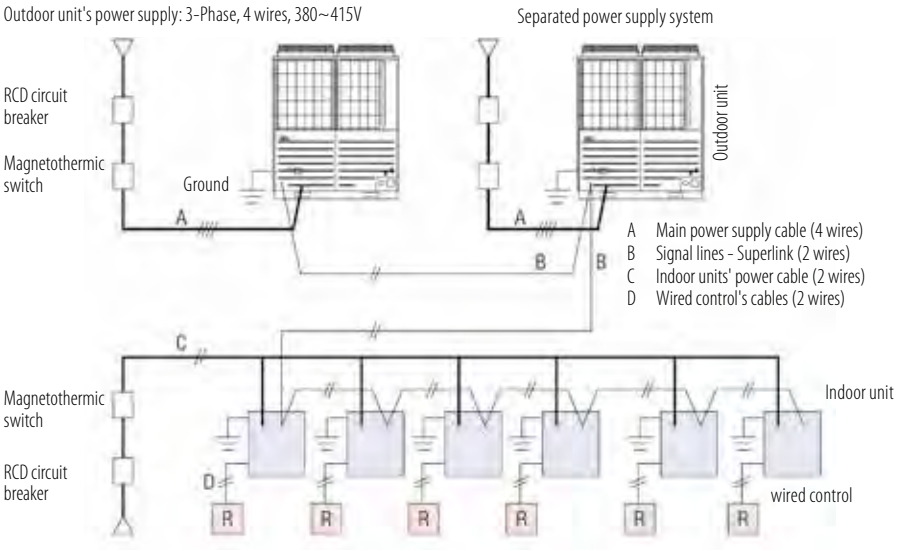
First branch pipe of the indoor unit	
Indoor units' total capacity	Set of branch pipes
~179	DIS-22-1-RB
180~370	DIS-180-1-RB
371~539	DIS-371-2-RB
540~	DIS-540-2-RB

Downstream of the PFD	
Indoor units' total capacity	Set of branch pipes
~179	DIS-22-1B
180~370	DIS-180-1B
371~539	DIS-371-1B
540~	DIS-540-3B

MITSUBISHI HEAVY INDUSTRIES

WIRING

VRF MHI systems require highly simplified electrical connections to the indoor units, thanks to a control circuit that uses 2 non-polarised conductors. The outdoor unit can be accessed from all sides for electrical connections (front, rear, bottom, right and left). A separate single-phase or three-phase power supply must be brought in for outdoor and indoor units, depending on the product specification.



Indoor unit's power supply: 1-Phase 220~240V

IMPORTANT: if the RCD circuit breaker is dedicated solely to protecting against leakage to earth, it will be necessary to install a magnetothermic switch.

CONNECTIONS

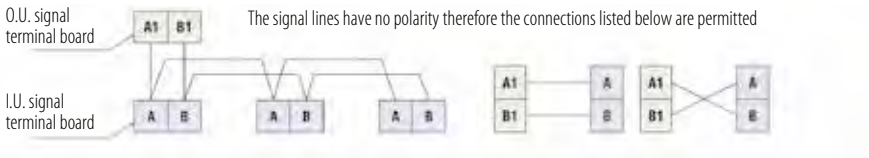
SIGNAL LINE

The signal line that connects the outdoor unit to the indoor units is 5 VDC and uses 2 non-polarised conductors marked A1 and B1.
For the signal line with 2 conductors, use shielded cables measuring 0.75 mm2. Earth the shield on all the indoor and outdoor units.

If using combined outdoor units, connect:

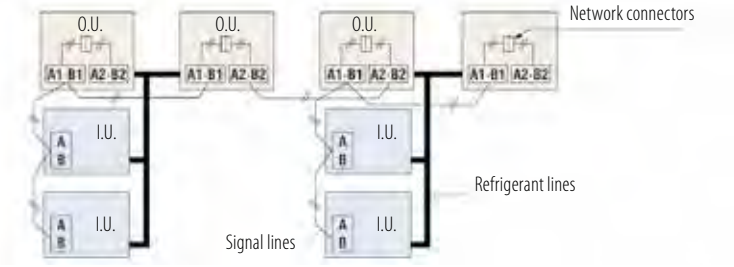
- the signal line between indoor and outdoor units, and the signal line between outdoor units that belong to the same refrigerant line, to A1 and B1;
- the signal line between outdoor units belonging to a different refrigerant line to A2 and B2.

Single outdoor unit



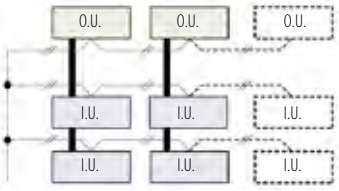
The signal lines have no polarity therefore the connections listed below are permitted

Combined outdoor units



The maximum number of indoor units that can be connected to a signal line is 128, and it is possible to create groups of outdoor and/or indoor units connected to the same outdoor unit or to separate outdoor units, as long as they are connected to the same signal line. The signal line can also be connected by adopting the method described below (multiple connectors).

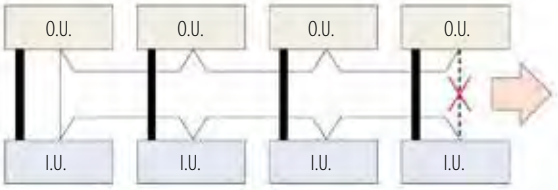
CAUTION: star connections on the signal lines are not permitted.



WIRED CONTROL

The specifications for the connection between the wired remote control and the indoor units (XY connection) are 0.5 mm2 x 2 wires. The maximum permitted length is 600 m. If the length exceeds 100 m, refer to the table.

Length (m)	Type of cables
100~200	0.5 mm2 x 2 wires
~300	0.75 mm2 x 2 wires
~400	1.50 mm2 x 2 wires
~600	2.0 mm2 x 2 wires



A loop cannot be formed with the signal, therefore the section of the connection indicated with ..... is not permitted

Low noise flow divider

PFD 1124-E, PFD 1804-E, PFD 2804-E, PFD 1124X4-E

Designed and manufactured at Mitsubishi Heavy Industries specialist research laboratories, the PFD flow divider enables all indoor units to be integrated into an air conditioning network, to switch from cooling mode to heating mode, or vice versa, while the whole system remains operational, thus preventing unnecessary power on and power off cycles. By using the optional extension cable for the PFD box, equipped with a connector, it is possible to further separate the PFD box from the indoor unit. This enables a reduction in sound level caused by the PDF box and the flow of refrigerant.

4-outlet PFD

Relay kit

MITSUBISHI HEAVY INDUSTRIES

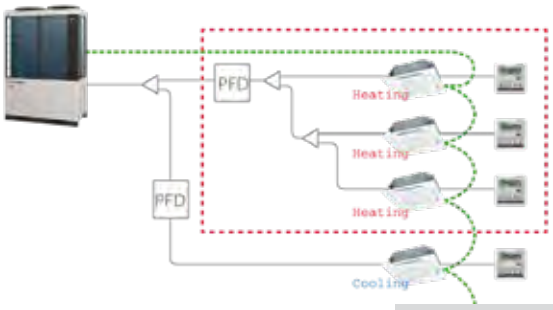
CONNECTIONS

PFD 1124-E, PFD 1804-E, PFD 2804-E, PFD 1124X4-E

Selection and control from centralised panel

The remote control settings (such as power on/off of single indoor units, temperature setting, as well as controlling the heating/cooling procedures) are possible via an individual control connected to each indoor unit.
At the same time, together with the individual controls, the SC-SL1N/2NA/4-AE3/BE3 centralised control panels can also be used.

For more details, refer to the Installation Manual.

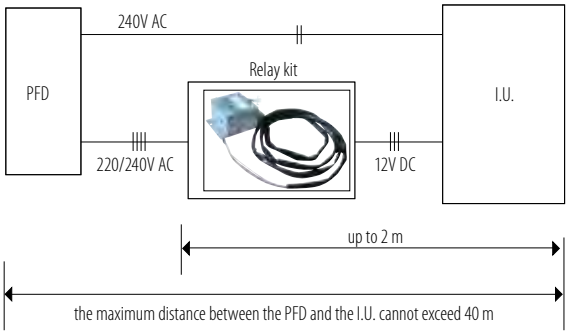


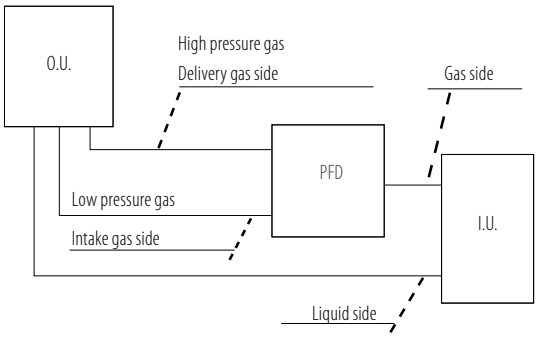
SC-SL1N/2NA/4-AE3/BE3

Ease of installation

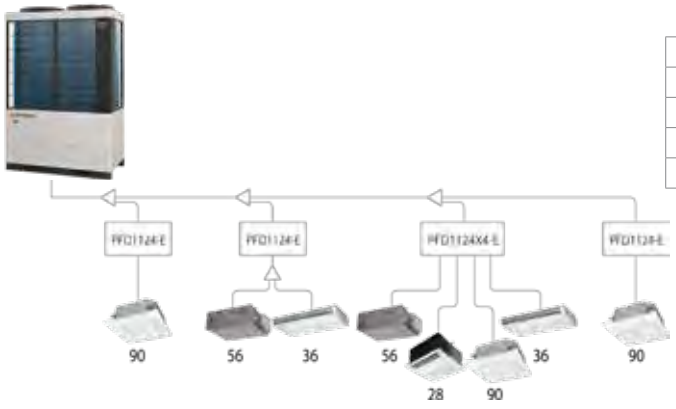
The PFD flow divider requires only the connection of gas-side piping, including low-pressure piping from the O.U., while the liquid-side piping is connected directly to the I.U. This reduces the number of connections and, consequently, installation times and costs.
Groups of indoor units up to a total capacity of 28 kW can be connected to a single PFD by means of branch pipes, all of which operate in the same mode, cooling or heating.
Also available is a 4-connection distributor, PFD1124X4-E, which allows up to 4 groups of indoor units to be connected, operating individually in cooling or heating mode.

The PFD flow divider is connected to the indoor unit via a relay kit (supplied) to be installed within a maximum distance of 2 metres from the indoor unit. The maximum distance between the PFD and the I.U. is 40 metres. The power of the PFD comes directly from the indoor unit.





PFD4-15WR-W
15 m Extension Cable for PFD-Box KXZR (optional)



Flow divider	Total I.U. power downstream	Connectable indoor units*
PFD 1124-E	up to 11.20 kW	1-5
PFD 1804-E	up to 18.00 kW	1-8
PFD 2804-E	up to 28.00 kW	1-10
PFD 1124X4-E	up to 37.10 kW total (divided over the 4 connections)	up to 16

* Refer to the technical manuals for specifications.

KXZR2

CONNECT UP TO 44 INDOOR UNITS/200% CAPACITY

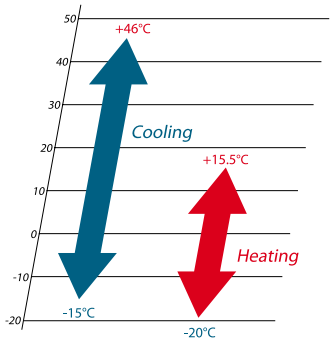
FDC 224 KXZRE2 22.4 kW
FDC 280 KXZRE2 28.0 kW
FDC 335 KXZRE2 33.5 kW

FEATURES

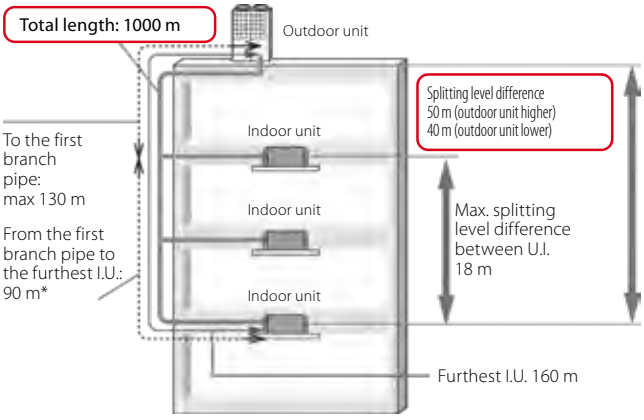
- Maximum energy efficiency: COP 4.25 and EER 3.89 [8 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 50 Pa fan static pressure

8~12HP (22.4~33.5 kW)

OPERATING RANGE



INSTALLATION DIAGRAM



* With difference of length between the farthest indoor unit and the nearest one from the first branch pipe < 40 m.

Outdoor unit model			FDC 224 KXZRE2	FDC 280 KXZRE2	FDC 335 KXZRE2
Power class		HP	8	10	12
Nominal data					
Rated capacity	Cooling	kW	22.40	28.00	33.50
Rated power input		kW	5.76	7.39	9.65
Rated energy efficiency coefficient		EER[1]	3.89	3.79	3.47
Rated capacity	Heating	kW	22.40	28.00	33.50
Rated power input		kW	5.27	6.86	8.44
Rated energy performance coefficient		COP[1]	4.25	4.08	3.97
Seasonal data					
Seasonal energy efficiency index	Cooling	SEER[2]	6.21	6.36	7.15
Seasonal performance coefficient	Heating	SCOP[2]	4.06	4.02	4.43
Seasonal energy efficiency (ηs)		%	159.40	157.80	174.20
Electrical data					
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz		
Rated current	Cooling	A	10.10	12.20	15.80
	Heating	A	9.10	11.30	13.80
Maximum current		A	16.00	20.00	21.20
Refrigerant circuit data					
Refrigerant[2]		Type (GWP)	R410A (2088)		
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)
Piping diameter	Liquid	inch (mm)	3/8" (9.52)	3/8" (9.52)	1/2" (12.7)
	Gas LP		3/4" (19.05)	7/8" (22.22)	1" (25.4)
	Gas HP		5/8" (15.88)	3/4" (19.05)	3/4" (19.05)
Product specifications					
Dimensions	HxLxD	mm	1697x1350x720	1697x1350x720	1697x1350x720
Net weight		kg	305	305	305
Sound power level	Max	dB(A)	77	76	82
Sound pressure level	Max	dB(A)	58	57	64
Volume of air treated	Standard	m³/h	13500	13500	17640
Fan static pressure	Max	Pa	50	50	50
Operating range (outdoor temperature)	Cooling	°C	-15~46	-15~46	-15~46
	Heating	°C	-20~15.5	-20~15.5	-20~15.5
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**1 ~ 29**	**1 ~ 37**	**1 ~ 44**
	Capacity	**%**	**50 ~ 200**	**50 ~ 200**	**50 ~ 200**

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2 , over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

HEAT RECOVERY KXZR2

KXZR2

CONNECT UP TO 71 INDOOR UNITS/160% CAPACITY (200% FOR FDC 400~450)

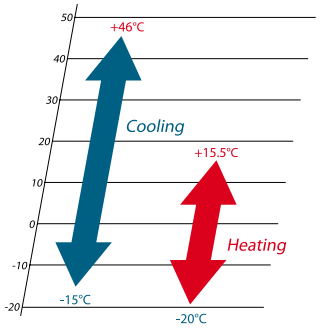
FDC 400 KXZRE2 40.0 kW
FDC 450 KXZRE2 45.0 kW
FDC 475 KXZRE2 47.5 kW
FDC 500 KXZRE2 50.0 kW
FDC 560 KXZRE2 56,0 kW
FDC 615 KXZRE2 61,5 kW
FDC 670 KXZRE2 67,0 kW

FEATURES

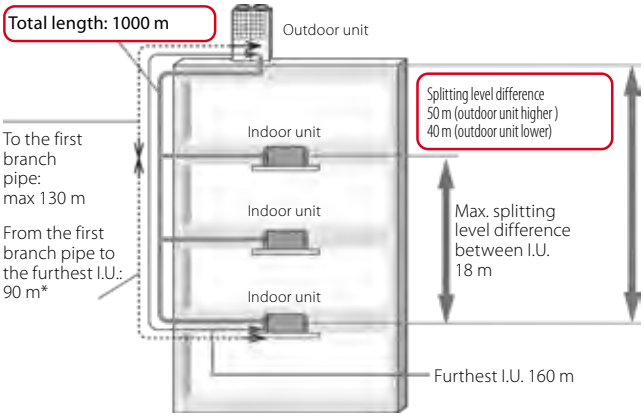
- Maximum energy efficiency: COP 4.10 and EER 3.46 [14 HP]
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 50 Pa fan static pressure

OPERATING RANGE

14~24HP
(40.0~67.0 kW)



INSTALLATION DIAGRAM



* With difference of length between the farthest indoor unit and the nearest one from the first branch pipe < 40 m.

Outdoor unit model			FDC 400 KXZRE2	FDC 450 KXZRE2	FDC 475 KXZRE2	FDC 500 KXZRE2	FDC 560 KXZRE2	FDC 615 KXZRE2	FDC 670 KXZRE2
Power class		**HP**	**14**	**16**	**17**	**18**	**20**	**22**	**24**
Nominal data									
Rated capacity	Cooling	kW	40.00	45.00	47.50	50.00	56.00	61.50	67.00
Rated power input	Cooling	kW	11.56	14.47	14.84	15.20	19.31	21.35	25.57
Rated energy efficiency coefficient	Cooling	EER[1]	3.46	3.11	3.20	3.29	2.90	2.88	2.62
Rated capacity	Heating	kW	40.00	45.00	47.50	50.00	56.00	61.50	63.00
Rated power input	Heating	kW	9.76	11.39	11.67	12.69	14.93	16.14	17.45
Rated energy performance coefficient	Heating	COP[1]	4.10	3.95	4.07	3.94	3.75	3.81	3.61
Seasonal data									
Seasonal energy efficiency index	Cooling	SEER[2]	6.78	6.29	6.6	7.01	6.26	6.05	5.88
Seasonal performance coefficient	Heating	SCOP[2]	4.39	4.33	4.27	4.39	4.29	4.34	4.50
Seasonal energy efficiency (ηs)	Heating	%	172.60	170.20	167.80	172.60	168.60	170.60	177.00
Electrical data									
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz						
Rated current	Cooling	A	18.50	23.10	24.00	24.60	31.20	34.50	41.30
Rated current	Heating	A	15.90	18.60	18.90	20.50	24.10	26.10	28.20
Maximum current		A	30.00	32.00	40.40	41.00	41.60	42.00	42.40
Refrigerant circuit data									
Refrigerant[2]		Type (GWP)	R410A (2088)						
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)	11.5 (24.012)
Piping diameter	Liquid	inch (mm)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)
Piping diameter	Gas LP	inch (mm)	1" (25.4)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)
Piping diameter	Gas HP	inch (mm)	7/8" (22.22)	7/8" (22.22)	7/8" (22.22)	7/8" (22.22)	7/8" (22.22)	1" (25.4)	1" (25.4)
Product specifications									
Dimensions	HxLxD	mm	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720	2052x1350x720
Net weight		kg	372	372	420	420	420	420	420
Sound power level	Max	dB(A)	82	82	82	82	82	83	83
Sound pressure level	Max	dB(A)	62	62	62	62	64	65	65
Volume of air treated	Standard	m³/h	18240	18240	18000	18000	18000	18000	18000
Fan static pressure	Max	Pa	50	50	50	50	50	50	50
Operating range (outdoor temperature)	Cooling	°C	-15~46	-15~46	-15~46	-15~46	-15~46	-15~46	-15~46
Operating range (outdoor temperature)	Heating	°C	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5	-20~15.5
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**1 ~ 53**	**1 ~ 60**	**1 ~ 50**	**1 ~ 53**	**1 ~ 59**	**2 ~ 65**	**2 ~ 71**
Connectable indoor units[5]	**Capacity**	**%**	**50 ~ 200**	**50 ~ 200**	**50 ~ 160**	**50 ~ 160**	**50 ~ 160**	**50 ~ 160**	**50 ~ 160**

1. Value measured according to the harmonised standard EN14511. 2. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825. 3. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2 , over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 4. For the calculation of the additional refrigerant charge, refer to the labels placed inside and outside the unit. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

KXZR2 - MODULAR OUTDOOR UNITS

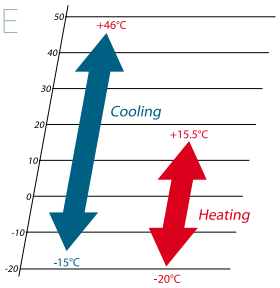
CONNECT UP TO 78 INDOOR UNITS (FDC 735) AND UP TO 80 INDOOR UNITS (FDC 800~1120) 160% CAPACITY (FDC 735~950) AND UP TO 130% CAPACITY (FDC 1000~1120)

FDC 735 KXZRE2 (FDC 335+FDC 400) 73.5 kW
FDC 800 KXZRE2 (FDC 400+FDC 400) 80.0 kW
FDC 850 KXZRE2 (FDC 400+FDC 450) 85.0 kW
FDC 900 KXZRE2 (FDC 450+FDC 450) 90.0 kW
FDC 950 KXZRE2 (FDC 475+FDC 750) 95.0 kW
FDC 1000 KXZRE2 (FDC 500+FDC 500) 100.0 kW
FDC 1060 KXZRE2 (FDC 500+FDC 560) 106.0 kW
FDC 1120 KXZRE2 (FDC 560+FDC 560) 112.0 kW

FEATURES

- Maximum energy efficiency: COP 4.10 (28HP); EER 3.47 (26HP)
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the farthest I.U. e la U.I. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



26HP (73.5 kW)

28~40HP (80.0~112.0 kW)

COMBINATIONS

Outdoor unit model			FDC 735 KXZRE2	FDC 800 KXZRE2	FDC 850 KXZRE2	FDC 900 KXZRE2	FDC 950 KXZRE2	FDC 1000 KXZRE2	FDC 1060 KXZRE2	FDC 1120 KXZRE2
Combinations			FDC 335 KXZRE2	FDC 400 KXZRE2	FDC 400 KXZRE2	FDC 450 KXZRE2	FDC 475 KXZRE2	FDC 500 KXZRE2	FDC 500 KXZRE2	FDC 560 KXZRE2
			FDC 400 KXZRE2	FDC 400 KXZRE2	FDC 450 KXZRE2	FDC 450 KXZRE2	FDC 475 KXZRE2	FDC 500 KXZRE2	FDC 560 KXZRE2	FDC 560 KXZRE2
			-	-	-	-	-	-	-	-
Power class		HP	26	28	30	32	34	36	38	40
Rated capacity	Cooling	kW	73.50	80.00	85.00	90.00	95.00	100.00	106.00	112.00
Rated power input	Cooling	kW	21.21	23.12	26.03	28.94	29.68	30.40	34.51	38.62
Rated energy efficiency coefficient	Cooling	EER[1]	3.47	3.46	3.27	3.11	3.20	3.29	3.07	2.90
Rated capacity	Heating	kW	73.50	80.00	85.00	90.00	95.00	100.00	106.00	112.00
Rated power input	Heating	kW	18.20	19.52	21.15	22.78	23.34	25.38	27.62	29.86
Rated energy performance coefficient	Heating	COP[1]	4.04	4.10	4.02	3.95	4.07	3.94	3.84	3.75
Seasonal data										
Seasonal energy efficiency index	Cooling	SEER[6]	7.11	6.90	6.74	6.61	6.60	6.30	6.28	6.26
Seasonal performance coefficient	Heating	SCOP[6]	4.39	4.39	4.36	4.33	4.27	4.39	4.34	4.29
Seasonal energy efficiency (ηs)	Heating	%	172.70	172.50	171.30	170.20	167.80	172.70	170.50	168.60
Electrical data										
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz							
Rated current	Cooling	A	34.30	37.00	41.60	46.30	48.00	49.10	55.80	62.40
Rated current	Heating	A	29.70	31.90	34.60	37.20	37.70	41.00	44.60	48.30
Maximum current		A	51.20	60.00	62.00	64.00	80.80	82.00	82.60	83.20
Refrigerant circuit data										
Refrigerant[2]		Type (GWP)	R410A (2088)							
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)
Piping diameter[4]	Liquido	inch (mm)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	3/4" (19.05)	3/4" (19.05)
Piping diameter[4]	Gas LP	inch (mm)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)
Piping diameter[4]	Gas HP	inch (mm)	1" (25.4)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/4" (31.75)	1-1/4" (31.75)
Piping diameter[4]	Oil balancing	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications										
Dimensions	HxLxD	mm	2052x2700x720							
Net weight		kg	677	744	744	744	840	840	840	840
Connectable indoor units[5]	Min ~ Max	nb.	2 ~ 78	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80	2 ~ 80
Connectable indoor units[5]	Capacity	%	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 160	50 ~ 130	50 ~ 130	50 ~ 130

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

KXZR2 - MODULAR OUTDOOR UNITS

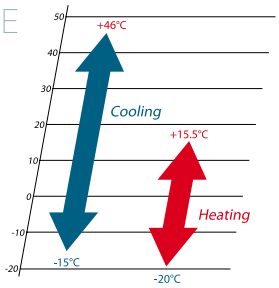
CONNECT UP TO 80 INDOOR UNITS/130% CAPACITY

FDC 1200 KXZRE2 (FDC 400+FDC 400+FDC 400) 120.0 kW
FDC 1250 KXZRE2 (FDC 400+FDC 400+FDC 450) 125.0 kW
FDC 1300 KXZRE2 (FDC 400+FDC 450+FDC 450) 130.0 kW
FDC 1350 KXZRE2 (FDC 450+FDC 450+FDC 450) 135.0 kW
FDC 1425 KXZRE2 (FDC 475+FDC 475+FDC 475) 142.5 kW
FDC 1450 KXZRE2 (FDC 475+FDC 475+FDC 500) 145.0 kW
FDC 1500 KXZRE2 (FDC 500+FDC 500+FDC 500) 150.0 kW
FDC 1560 KXZRE2 (FDC 500+FDC 500+FDC 560) 156.0 kW
FDC 1620 KXZRE2 (FDC 500+FDC 560+FDC 560) 162.0 kW
FDC 1680 KXZRE2 (FDC 560+FDC 560+FDC 560) 168.0 kW

FEATURES

- Maximum energy efficiency: COP 4.10 and EER 3.46 (42HP)
- Only DC Inverter compressors
- High splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the farthest I.U. e la U.I. of 160 m
- Up to 85 Pa fan static pressure

OPERATING RANGE



42~60HP
(120.0~168.0 kW)

COMBINATIONS

Outdoor unit model			FDC 1200 KXZRE2	FDC 1250 KXZRE2	FDC 1300 KXZRE2	FDC 1350 KXZRE2	FDC 1425 KXZRE2	FDC 1450 KXZRE2	FDC 1500 KXZRE2	FDC 1560 KXZRE2	FDC 1620 KXZRE2	FDC 1680 KXZRE2
Combinations			FDC 400 KXZRE2	FDC 400 KXZRE2	FDC 400 KXZRE2	FDC 450 KXZRE2	FDC 475 KXZRE2	FDC 475 KXZRE2	FDC 500 KXZRE2	FDC 500 KXZRE2	FDC 500 KXZRE2	FDC 560 KXZRE2
			FDC 400 KXZRE2	FDC 400 KXZRE2	FDC 450 KXZRE2	FDC 450 KXZRE2	FDC 475 KXZRE2	FDC 475 KXZRE2	FDC 500 KXZRE2	FDC 500 KXZRE2	FDC 560 KXZRE2	FDC 560 KXZRE2
			FDC 400 KXZRE2	FDC450 KXZRE2	FDC 450 KXZRE2	FDC 450 KXZRE2	FDC 475 KXZRE2	FDC 500 KXZRE2	FDC 500 KXZRE2	FDC 560 KXZRE2	FDC 560 KXZRE2	FDC 560 KXZRE2
Power class		HP	42	44	46	48	50	52	54	56	58	60
Rated capacity	Cooling	kW	120.00	125.00	130.00	135.00	142.50	145.00	150.00	156.00	162.00	168.00
Rated power input		kW	34.68	37.59	40.50	43.41	44.52	44.88	45.60	49.71	53.82	57.93
Rated energy efficiency coefficient		EER[1]	3.46	3.33	3.21	3.11	3.20	3.23	3.29	3.14	3.01	2.90
Rated capacity	Heating	kW	120.00	125.00	130.00	135.00	142.50	145.00	150.00	156.00	162.00	168.00
Rated power input		kW	29.28	30.91	32.54	34.17	35.01	36.03	38.07	40.31	42.55	44.79
Rated energy performance coefficient		COP[1]	4.10	4.04	4.00	3.95	4.07	4.02	3.94	3.87	3.81	3.75
Seasonal data												
Seasonal energy efficiency index	Cooling	SEER[6]	6.90	6.79	6.69	6.61	6.60	6.49	6.30	6.28	6.27	6.26
Seasonal performance coefficient	Heating	SCOP[6]	4.39	4.37	4.35	4.33	4.27	4.31	4.39	4.36	4.32	4.29
Seasonal energy efficiency (ηs)		%	172.50	171.70	170.90	170.20	167.80	169.40	172.70	171.20	169.80	168.60
Electrical data												
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz									
Rated current	Cooling	A	55.50	60.10	64.80	69.40	72.00	72.50	73.70	80.30	87.00	93.60
	Heating	A	47.80	50.50	53.20	55.80	56.60	58.20	61.50	65.20	68.80	72.40
Maximum current		A	90.00	92.00	94.00	96.00	121.20	121.80	123.00	123.60	124.20	124.80
Refrigerant circuit data												
Refrigerant[2]		Type (GWP)	R410A (2088)									
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)
Piping diameter[4]	Liquido	inch (mm)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)	3/4" (19.05)
	Gas LP		1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)	1-1/2" (38.1)
	Gas HP		1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)
	Oil balancing		3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications												
Dimensions	HxLxD	mm	2052x4050x720									
Net weight		kg	1116	1116	1116	1116	1260	1260	1260	1260	1260	1260
Connectable indoor units[5]	Min ~ Max	nb.	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80	3 ~ 80
	Capacity	%	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130	50 ~ 130

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

KXZRX2 Hi-COP VRF-T MODULAR SYSTEM

Record efficiency in heating and cooling

Greater energy efficiency with KXZRXE2 heat recovery systems, in any combination of outdoor units.

16~36HP
(45.0~100 kW)

MITSUBISHI HEAVY INDUSTRIES

HEAT RECOVERY KXZR2

KXZRX2 Hi-COP

CONNECT UP TO 71 INDOOR UNITS/160% CAPACITY (200% FOR FDC 450)

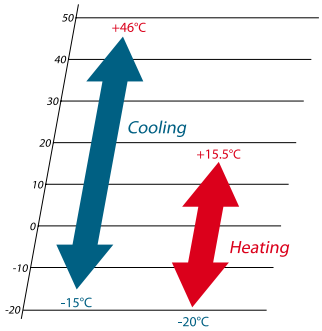
FDC 450 KXZRXE2 (FDC 224+FDC 224) 45.0 kW
FDC 500 KXZRXE2 (FDC 224+FDC 280) 50.0 kW
FDC 560 KXZRXE2 (FDC 280+FDC 280) 56.0 kW
FDC 615 KXZRXE2 (FDC 280+FDC 335) 61.5 kW
FDC 670 KXZRXE2 (FDC 335+FDC 335) 67.0 kW

FEATURES

- Maximum energy efficiency: COP 4.27 and EER 3.91 (16HP)
- Only DC Inverter compressors
- Splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

16~24HP
(45.0~67.0 kW)

OPERATING RANGE



COMBINATIONS

Outdoor unit model			FDC 450 KXZRXE2	FDC 500 KXZRXE2	FDC 560 KXZRXE2	FDC 615 KXZRXE2	FDC 670 KXZRXE2
Combinations			FDC 224 KXZRE2 FDC 224 KXZRE2	FDC 224 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 335KXZRE2	FDC 335 KXZRE2 FDC 335 KXZRE2
			-	-	-	-	-
Power class		**HP**	**16**	**18**	**20**	**22**	**24**
Rated capacity	Cooling	kW	45.00	50.00	56.00	61.50	67.00
Rated power input		kW	11.52	13.15	14.78	17.04	19.30
Rated energy efficiency coefficient		EER[1]	3.91	3.80	3.79	3.61	3.47
Rated capacity	Heating	kW	45.00	50.00	56.00	61.50	67.00
Rated power input		kW	10.54	12.13	13.72	15.30	16.88
Rated energy performance coefficient		COP[1]	4.27	4.12	4.08	4.02	3.97
Seasonal data							
Seasonal energy efficiency index	Cooling	SEER[6]	6.28	6.62	6.98	7.20	7.41
Seasonal performance coefficient	Heating	SCOP[6]	4.06	4.03	4.02	4.22	4.43
Seasonal energy efficiency (ηs)		%	159.40	158.20	157.80	165.90	174.10
Electrical data							
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz				
Rated current	Cooling	A	20.20	22.30	24.40	28.00	31.50
	Heating	A	18.20	20.40	22.70	25.10	27.60
Maximum current		A	32.00	36.00	40.00	41.20	42.40
Refrigerant circuit data							
Refrigerant[2]		Type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)	23 (48.024)
Piping diameter[4]	Liquido	inch (mm)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)
	Gas LP		1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)
	Gas HP		7/8" (22.2)	7/8" (22.2)	7/8" (22.2)	1" (25.4)	1" (25.4)
	Oil balancing		3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications							
Dimensions	HxLxD	mm	1697x2700x720				
Net weight		kg	610	610	610	610	610
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**2 ~ 60**	**2 ~ 53**	**2 ~ 59**	**2 ~ 65**	**2 ~ 71**
	Capacity	**%**	**80 ~ 200**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

KXZRX2 Hi-COP

CONNECT UP TO 80 INDOOR UNITS/160% CAPACITY (130% FOR FDC 1000)

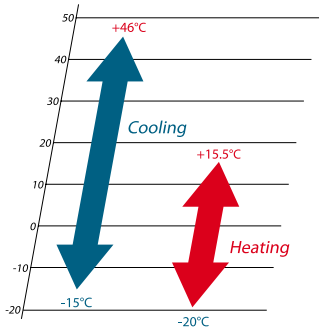
FDC 735 KXZRXE2 (FDC 224+FDC 224+FDC 280) 73.5 kW
FDC 800 KXZRXE2 (FDC 224+FDC 280+FDC 280) 80.0 kW
FDC 850 KXZRXE2 (FDC 280+FDC 280+FDC 280) 85.0 kW
FDC 900 KXZRXE2 (FDC 280+FDC 280+FDC 335) 90.0 kW
FDC 950 KXZRXE2 (FDC 280 +FDC 335+FDC 335) 95.0 kW
FDC 1000 KXZRXE2 (FDC 335+FDC 335+ FDC 335) 100.0 kW

FEATURES

- Maximum energy efficiency: COP 4.22 and EER 3.89 (26HP)
- Only DC Inverter compressors
- Splitting distance: up to 1000 m in total and with a max. distance between the O.U. and the furthest I.U. of 160 m
- Up to 85 Pa fan static pressure

26~36HP
(73.5~100.0 kW)

OPERATING RANGE



COMBINATIONS

Outdoor unit model			FDC 735 KXZRXE2	FDC 800 KXZRXE2	FDC 850 KXZRXE2	FDC 900 KXZRXE2	FDC 950 KXZRXE2	FDC 1000 KXZRXE2
Combinations			FDC 224 KXZRE2 FDC 224 KXZRE2 FDC 280 KXZRE2	FDC 224 KXZRE2 FDC 280 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 280 KXZRE2 FDC 280 KXZRE2	FDC 280 KXZRE2 FDC 280 KXZRE2 FDC 335 KXZRE2	FDC 280 KXZRE2 FDC 335 KXZRE2 FDC 335 KXZRE2	FDC 335 KXZRE2 FDC 335 KXZRE2 FDC 335KXZRE2
Power class		**HP**	**26**	**28**	**30**	**32**	**34**	**36**
Rated capacity	Cooling	kW	73.50	80.00	85.00	90.00	95.00	100.00
Rated power input	Cooling	kW	18.91	20.54	22.17	24.43	26.69	28.95
Rated energy efficiency coefficient	Cooling	EER[1]	3.89	3.89	3.83	3.68	3.56	3.45
Rated capacity	Heating	kW	73.50	80.00	85.00	90.00	95.00	100.00
Rated power input	Heating	kW	17.40	18.99	20.58	22.16	23.74	25.32
Rated energy performance coefficient	Heating	COP[1]	4.22	4.21	4.13	4.06	4.00	3.95
Seasonal data								
Seasonal energy efficiency index	Cooling	SEER[6]	6.50	6.73	6.98	7.12	7.27	7.41
Seasonal performance coefficient	Heating	SCOP[6]	4.04	4.02	4.02	4.15	4.29	4.43
Seasonal energy efficiency (ηs)	Heating	%	158.50	157.80	157.80	163.20	168.60	174.10
Electrical data								
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz					
Rated current	Cooling	A	32.40	34.50	36.60	40.20	43.70	47.30
Rated current	Heating	A	29.50	31.80	34.00	36.40	38.90	41.40
Maximum current		A	52.00	56.00	60.00	61.20	62.40	63.60
Refrigerant circuit data								
Refrigerant[2]		Type (GWP)	R410A (2088)					
Q.ty of refrigerant pre-charge[3] (tons of CO2 equivalent)		kg	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)	34.5 (72.036)
Piping diameter[4]	Liquido	inch (mm)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
Piping diameter[4]	Gas LP	inch (mm)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/2" (38.1)
Piping diameter[4]	Gas HP	inch (mm)	1" (25.4)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)
Piping diameter[4]	Oil balancing	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications								
Dimensions	HxLxD	mm	1697x4050x720					
Net weight		kg	915	915	915	915	915	915
Connectable indoor units[5]	**Min ~ Max**	**nb.**	**3 ~ 78**	**3 ~ 80**	**3 ~ 80**	**3 ~ 80**	**3 ~ 80**	**3 ~ 80**
Connectable indoor units[5]	**Capacity**	**%**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 160**	**80 ~ 130**

1. Value measured according to the harmonised standard EN 14511. 2. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 3. For the calculation of the additional refrigerant charge, refer to the labels positioned inside and outside the unit. 4. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 5. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%. 6. EU Regulations No. 206/2012 - No. 2281/2016 - Value measured according to the harmonised standard EN14825

WATER COOLED VRF-T KXZW SYSTEM

These MHI systems use water as a source for air conditioning. They are ideal for tall buildings.

CHARACTERISTICS

- Energy savings, reduced operating costs.
- High efficiency.
- Flexible and compact design that can be transported in a lift.
- Integrates with the architecture.
- Easy transport and installation.
- BMS (Building Management System); the same system for controlling the air-cooled system (KXZ).
- Support and maintenance; easy front access to the main parts (compressor, control, plate heat exchanger, etc.).
- Wide range of control software and maintenance instruments (Mente PC, SL-Checker, etc.).

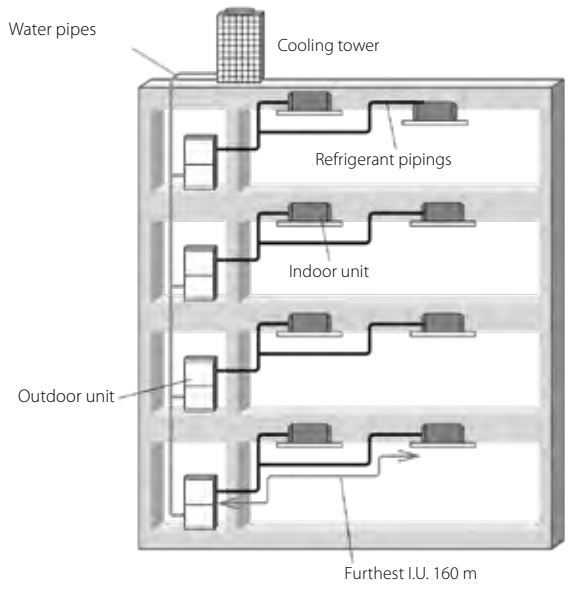
APPLICATIONS

- Ideal for applications on tall buildings.
- Skyscraper 100 metres or more in height.
- Glass façade; exterior of a building thanks to the possibility of hiding the condensing unit.

VRF-T

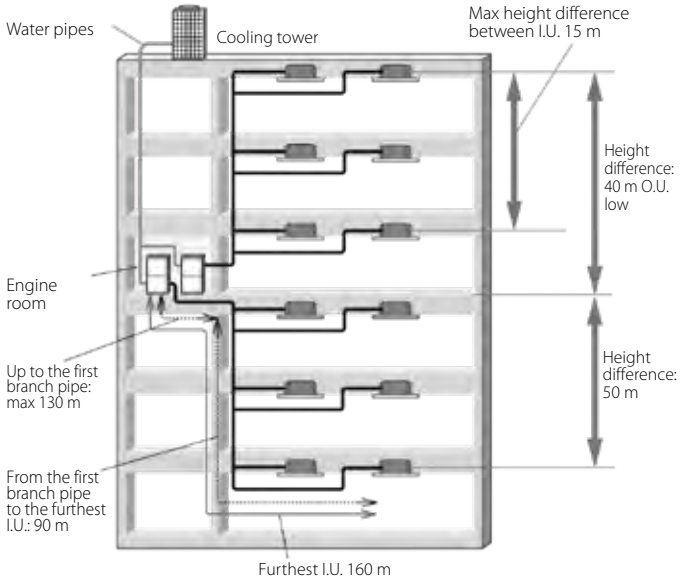
OUTDOOR UNITS ON EVERY FLOOR
(new construction projects)

Total length: 510 m



OUTDOOR ENGINE ROOM UNITS
(renovation projects)

Total length: 510 m



MITSUBISHI HEAVY INDUSTRIES

WATER COOLED

KXZW

VRF-T

CONNECT UP TO 33 INDOOR UNITS/150% CAPACITY

FDC 224 KXZWE1 22.4 kW
FDC 280 KXZWE1 28.0 kW
FDC 335 KXZWE1 33.5 kW

8~12HP
(22.4~33.5 kW)

Outdoor unit model			FDC 224 KXZWE1	FDC 280 KXZWE1	FDC 335 KXZWE1
Combinations			-	-	-
			-	-	-
			-	-	-
Power class		**HP**	**8**	**10**	**12**
Rated capacity (W30/A27)	Cooling	kW	22.40	28.00	33.50
Rated power input (W30/A27)		kW	4.23	5.75	8.13
Rated energy efficiency coefficient		EER	5.30	4.87	4.12
Rated capacity (W20/A20)	Heating	kW	25.00	31.50	37.50
Rated power input (W20/A20)		kW	4.24	5.10	6.30
Rated energy performance coefficient		COP	5.90	6.18	5.95
Electrical data					
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz		
Rated current	Cooling	A	7.14	9.64	13.40
	Heating	A	7.13	8.59	10.50
Maximum current		A	23.50	23.50	23.50
Refrigerant circuit data					
Refrigerant[1]		type (GWP)	R410A (2088)		
Q.ty of refrigerant pre-charge (tons of CO2 equivalent)		kg	9.9 (20.671)	9.9 (20.671)	9.9 (20.671)
Piping diameter[2]	Liquid	inch (mm)	3/8" (9.52)	3/8" (9.52)	1/2" (12.7)
	Gas		3/4" (19.05)	7/8" (22.22)	1" (25.4)
	Oil balancing		-	-	-
Product specifications					
Dimensions	HxLxD	mm	1110x780X550	1110x780X550	1110x780x550
Net weight		kg	185	185	185
Sound power level	Max	dB(A)	65	66	66
Sound pressure level	Max	dB(A)	48	50	52
Water flow rate (for each unit)	Min ~ Max	L/min	50 ~ 150	50 ~ 150	50 ~ 150
Pressure drop of heat exchanger (for each unit)	Min ~ Max	kPa	8 ~ 68	8 ~ 68	8 ~ 68
Hydraulic pipes' diameter	In/Out	inch	R 1-1/4"	R 1-1/4"	R 1-1/4"
Operating range (inlet water temperature)	Cooling	℃	10~45	10~45	10~45
	Heating				
Connectable indoor units[3]	**Min ~ Max**	**nb.**	**1 ~ 22**	**1 ~ 28**	**1 ~ 33**
	Capacity	**%**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**

1. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 2. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 3. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

WATER COOLED

KXZW

VRF-T

CONNECT UP TO 67 INDOOR UNITS/150% CAPACITY

FDC 450 KXZWE1 (FDC 224x2)	45.0 kW
FDC 500 KXZWE1 (FDC 224+FDC 280)	50.0 kW
FDC 560 KXZWE1 (FDC 280x2)	56.0 kW
FDC 615 KXZWE1 (FDC 280+FDC 335)	61.5 kW
FDC 670 KXZWE1 (FDC 335x2)	67.0 kW

16~24HP
(45.0~67.0 kW)

COMBINATIONS

Outdoor unit model			FDC 450 KXZWE1	FDC 500 KXZWE1	FDC 560 KXZWE1	FDC 615 KXZWE1	FDC 670 KXZWE1
Combinations			FDC 224 KXZWE1 FDC 224 KXZWE1 -	FDC 224 KXZWE1 FDC 280KXZWE1 -	FDC 280 KXZWE1 FDC 280 KXZWE1 -	FDC 280 KXZWE1 FDC 335 KXZWE1 -	FDC 335 KXZWE1 FDC 335 KXZWE1 -
Power class		HP	16	18	20	22	24
Rated capacity (W30/A27)	Cooling	kW	45.00	50.00	56.00	61.50	67.00
Rated power input (W30/A27)	Cooling	kW	8.49	9.83	11.50	13.70	16.30
Rated energy efficiency coefficient	Cooling	EER	5.30	5.09	4.87	4.49	4.11
Rated capacity (W20/A20)	Heating	kW	50.00	56.00	63.00	69.00	75.00
Rated power input (W20/A20)	Heating	kW	8.47	9.27	10.20	11.40	12.60
Rated energy performance coefficient	Heating	COP	5.90	6.04	6.18	6.05	5.95
Electrical data							
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz				
Rated current	Cooling	A	14.30	16.50	19.30	22.70	26.80
Rated current	Heating	A	14.30	15.60	17.20	19.10	21.00
Maximum current		A	47.00	47.00	47.00	47.00	47.00
Refrigerant circuit data							
Refrigerant[1]		Type (GWP)	R410A (2088)				
Q.ty of refrigerant pre-charge (tons of CO2 equivalent)		kg	19.8 (41.342)	19.8 (41.342)	19.8 (41.342)	19.8 (41.342)	19.8 (41.342)
Piping diameter[2]	Liquid	inch (mm)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)	1/2" (12.7)
Piping diameter[2]	Gas	inch (mm)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)	1-1/8" (28.58)
Piping diameter[2]	Oil balancing	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications							
Dimensions	HxLxD	mm	2220x780x550	2220x780x550	2220x780x550	2220x780x550	2220x780x550
Net weight		kg	370	370	370	370	370
Sound power level	Max	dB(A)	-	-	-	-	-
Sound pressure level	Max	dB(A)	51	52	53	54	55
Water flow rate (for each unit)	Min ~ Max	L/min	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Pressure drop of heat exchanger (for each unit)	Min ~ Max	kPa	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68
Hydraulic pipes' diameter	In/Out	inch	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"
Operating range (inlet water temperature)	Cooling	℃	10~45	10~45	10~45	10~45	10~45
Operating range (inlet water temperature)	Heating	℃	10~45	10~45	10~45	10~45	10~45
Connectable indoor units[3]	**Min ~ Max**	**nb.**	**1 ~ 44**	**1 ~ 50**	**1 ~ 56**	**2 ~ 61**	**2 ~ 67**
Connectable indoor units[3]	**Capacity**	**%**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**

1. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 2. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 3. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.

MITSUBISHI HEAVY INDUSTRIES

WATER COOLED

KXZW

VRF-T

CONNECT UP TO 80 INDOOR UNITS/150% CAPACITY

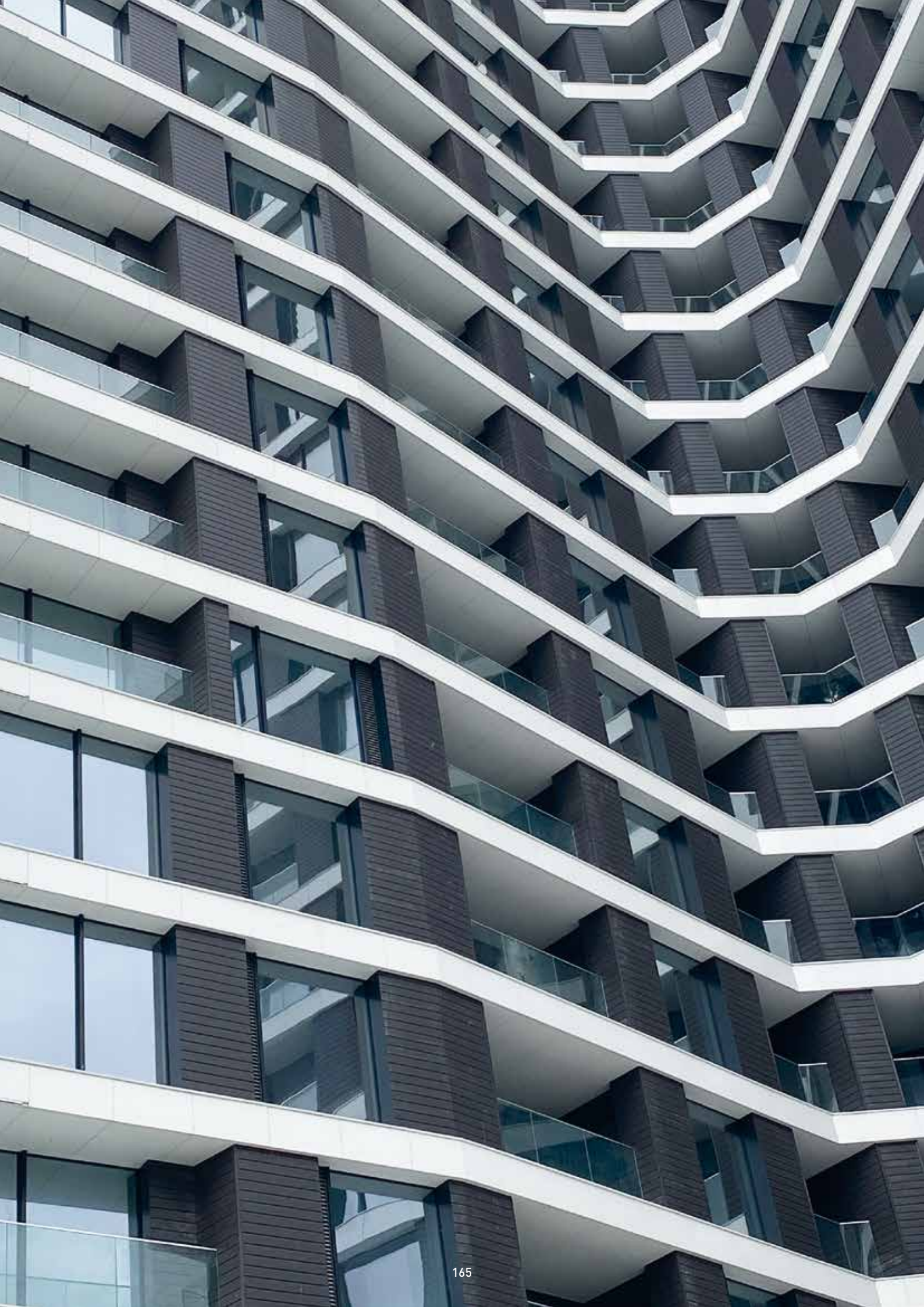
FDC 730 KXZWE1 (FDC 224x2+FDC 280)	73.0 kW
FDC 775 KXZWE1 (FDC 224+FDC 280x2)	77.5 kW
FDC 850 KXZWE1 (FDC 280x3)	85.0 kW
FDC 900 KXZWE1 (FDC 280x2+FDC 335)	90.0 kW
FDC 950 KXZWE1 (FDC 280+FDC 335x2)	95.0 kW
FDC 1000 KXZWE1 (FDC 335x3)	100.0 kW

26~36HP
(73.0~100.0 kW)

COMBINATIONS

Outdoor unit model			FDC 730 KXZWE1	FDC 775 KXZWE1	FDC 850 KXZWE1	FDC 900 KXZWE1	FDC 950 KXZWE1	FDC 1000 KXZWE1
Combinations			FDC 224 KXZWE1 FDC 224 KXZWE1 FDC 280KXZWE1	FDC 224 KXZWE1 FDC 280 KXZWE1 FDC280 KXZWE1	FDC 280 KXZWE1 FDC 280 KXZWE1 FDC 280 KXZWE1	FDC 280 KXZWE1 FDC 280 KXZWE1 FDC 335 KXZWE1	FDC 280 KXZWE1 FDC 335 KXZWE1 FDC 335 KXZWE1	FDC 335 KXZWE1 FDC 335 KXZWE1 FDC 335 KXZWE1
Power class		HP	26	28	30	32	34	36
Rated capacity (W30/A27)	Cooling	kW	73.00	77.50	85.00	90.00	95.00	100.00
Rated power input (W30/A27)	Cooling	kW	14.20	15.50	17.50	19.50	21.70	24.30
Rated energy efficiency coefficient	Cooling	EER	5.14	5.00	4.86	4.62	4.38	4.12
Rated capacity (W20/A20)	Heating	kW	82.50	90.00	95.00	100.00	106.00	112.00
Rated power input (W20/A20)	Heating	kW	13.80	14.80	15.40	16.40	17.60	18.80
Rated energy performance coefficient	Heating	COP	5.98	6.08	6.17	6.10	6.02	5.96
Electrical data								
Power supply		Ph-V-Hz	3Ph-380~415V-50Hz					
Rated current	Cooling	A	23.80	26.00	29.30	32.50	36.00	40.00
Rated current	Heating	A	23.20	24.90	25.90	27.50	29.40	31.40
Maximum current		A	70.50	70.50	70.50	70.50	70.50	70.50
Refrigerant circuit data								
Refrigerant[1]		Type (GWP)	R410A (2088)					
Q.ty of refrigerant pre-charge (tons of CO2 equivalent)		kg	29.7 (62.014)	29.7 (62.014)	29.7 (62.014)	29.7 (62.014)	29.7 (62.014)	29.7 (62.014)
Piping diameter[2]	Liquid	inch (mm)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)	5/8" (15.88)
Piping diameter[2]	Gas	inch (mm)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/4" (31.75)	1-1/2" (38.1)
Piping diameter[2]	Oil balancing	inch (mm)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)	3/8" (9.52)
Product specifications								
Dimensions	HxLxD	mm	3330x780x550	3330x780x550	3330x780x550	3330x780X550	3330x780x550	3330x780x550
Net weight		kg	555	555	555	555	555	555
Sound power level	Max	dB(A)	-	-	-	-	-	-
Sound pressure level	Max	dB(A)	54	54	55	56	56	57
Water flow rate (for each unit)	Min ~ Max	L/min	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150	50 ~ 150
Pressure drop of heat exchanger (for each unit)	Min ~ Max	kPa	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68	8 ~ 68
Hydraulic pipes' diameter	In/Out	inch	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"	R 1-1/4"
Operating range (inlet water temperature)	Cooling	℃	10~45	10~45	10~45	10~45	10~45	10~45
Operating range (inlet water temperature)	Heating	℃	10~45	10~45	10~45	10~45	10~45	10~45
Connectable indoor units[3]	**Min ~ Max**	**nb.**	**2 ~ 72**	**2 ~ 78**	**2 ~ 80**	**2 ~ 80**	**2 ~ 80**	**2 ~ 80**
	Capacity	**%**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**	**50 ~ 150**

1. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary. 2. The diameters indicated refer to the section up to the first junction, with an equivalent length of less than 90 m. 3. When connecting indoor units of type FDK, FDFL, FDFU or FDFW the upper limit is always 130%.



INDOOR UNITS

			HP	0.5	0.8	1	1.25	1.6	2	2.5	3.2	4	6	6	8	10
			kW	1.5	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0	22.4	28.0
Cassette	84x84	 FDT				✓	✓	✓	✓	✓	✓	✓	✓	✓		
	60x60 compact	 FDTC	✓	✓	✓	✓	✓	✓								
	2-way	 FDTW			✓		✓	✓	✓	✓	✓	✓				
	1-way	 FDTS					✓		✓							
	1-way ducted compact	 FDTQ		✓	✓	✓										
Ducted	high static pressure adjustable	 FDU					✓	✓	✓	✓	✓	✓	✓	✓	✓	
	medium and low static pressure adjustable	 FDUM		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
	all-outside air	 FDU F								✓		✓		✓	✓	✓
	ducted low static pressure	 FDUT	✓	✓	✓	✓	✓	✓	✓							
	compact	 FDUH		✓	✓	✓										
Wall		 FDK	✓	✓	✓	✓	✓	✓	✓	✓						
Ceiling		 FDE				✓	✓	✓	✓		✓	✓				
Floor	Console	FDFW			✓		✓	✓								
	recessed	 FDFU			✓		✓	✓	✓							

SAF - ENTHALPY HEAT RECOVERY UNIT

	150	250	350	500	800	1000
	✓	✓	✓	✓	✓	✓

SAF DX - POST-TREATMENT MODULAR UNIT

	250	350	500	800	1000
	✓	✓	✓	✓	✓

MOTION SENSOR HUMAN SENSOR

MODELS ON WHICH THE SENSOR CAN BE INSTALLED

FDT FDTC FDTW FDTS FDU FDUM FDUT (model 71 only) FDK FDE

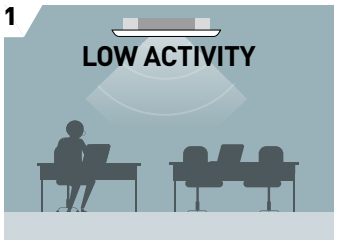
ENERGY SAVINGS THROUGH MOTION DETECTION IN THE ROOM

The HUMAN SENSOR detects the presence/absence and/or movement of persons in the room to improve comfort and performance, thanks to the unit's energy saving functions.

3 ENERGY SAVING CONTROL MODE

1. POWER CONTROL

The new motion sensor detects human activity in the room Energy saving control is obtained by modifying the set temperature based on the amount and type of detected activity.

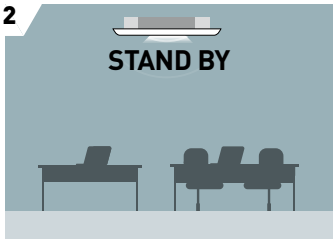


Power control increases energy saving.

Power control increases comfort.

2. AUTO-OFF: STAND BY

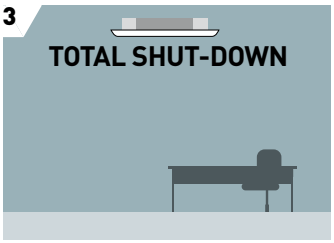
The unit stops running if no activity is detected for 1 hour. It re-starts automatically when activity is detected.



Operation shuts off temporarily.

3. AUTO-OFF: TOTAL SHUT-DOWN

The unit shuts down automatically if no activity is detected for 12 hours.



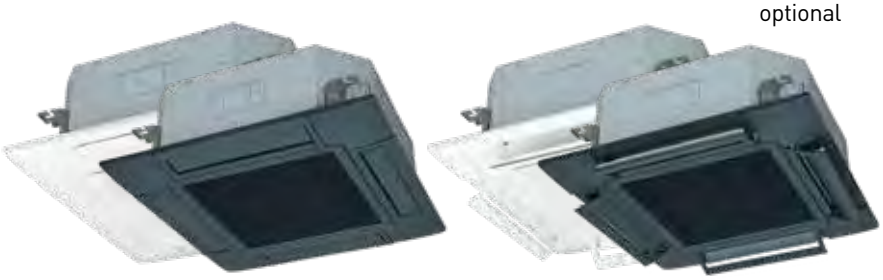
Operation shuts off completely.

MITSUBISHI HEAVY INDUSTRIES

INDOOR UNITS

CASSETTE 84x84

WiFi optional



FDT 28~160 KXZE1
- □ Standard T-PSA-5BW-E panel
- ■ Standard T-PSA-5BB-E panel

FDT 28~160 KXZE1
- □ Antidraft T-PSAE-5BW-E panel
- ■ Antidraft T-PSAE-5BB-E panel

- **9 capacities** (2.80~16.00 kW)
- Ideal for residential and commercial applications: the cassette becomes invisible because it is completely built into the false ceiling
- Removable caps on the 4 corners for easy installation
- Easy condensate drain pan control
- Anti-draft panel: flexible flap control for FDT (optional)
- Corner with "Human Sensor":
  - □ LB-T-5BW-E white
  - ■ LB-T-5BB-E black
- Condensate drain pump as standard: raises condensation up to 850 mm from the flush panel

ANTIDRAFT PANEL

Maximum comfort without direct drafts: new flap control for greater flexibility.

Model		FDT 28 KXZE1	FDT 36 KXZE1	FDT 45 KXZE1	FDT 56 KXZE1	FDT 71 KXZE1	FDT 90 KXZE1	FDT 112 KXZE1	FDT 140 KXZE1	FDT 160 KXZE1
Standard white / black panel		T-PSA-5BW-E / T-PSA-5BB-E								
Antidraft white / black panel		T-PSAE-5BW-E / T-PSAE-5BB-E								
Rated capacity (Cooling)	kW	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Rated capacity (Heating)	kW	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	18.00
Power supply		220-240V~ 50Hz								
Power input (Cooling)	kW	0.02 - 0.02	0.03 - 0.03	0.03 - 0.03	0.04 - 0.04	0.08 - 0.08	0.13 - 0.13	0.14 - 0.14	0.14 - 0.14	0.14 - 0.14
Power input (Heating)	kW	0.02 - 0.02	0.03 - 0.03	0.03 - 0.03	0.04 - 0.04	0.08 - 0.08	0.13 - 0.13	0.14 - 0.14	0.14 - 0.14	0.14 - 0.14
Rated current (Cooling)	A	0.20 - 0.19	0.30 - 0.28	0.30 - 0.28	0.36 - 0.33	0.70 - 0.64	1.04 - 0.95	1.12 - 1.02	1.12 - 1.02	1.12 - 1.02
Rated current (Heating)	A	0.20 - 0.19	0.30 - 0.28	0.30 - 0.28	0.36 - 0.33	0.70 - 0.64	1.04 - 0.95	1.12 - 1.02	1.12 - 1.02	1.12 - 1.02
Sound pressure level	dB(A)	P-Hi 33 Hi 31 Me 29 Lo 27	P-Hi 34 Hi 31 Me 29 Lo 27	P-Hi 35 Hi 33 Me 31 Lo 27	P-Hi 38 Hi 33 Me 31 Lo 27	P-Hi 47 Hi 35 Me 32 Lo 28	P-Hi 49 Hi 38 Me 36 Lo 31	P-Hi 49 Hi 39 Me 37 Lo 31	P-Hi 49 Hi 42 Me 39 Lo 32	P-Hi 49 Hi 42 Me 39 Lo 33
Sound power level	dB(A)	49	49	50	55	62	65	66	66	66
External dimensions (HxLxD)	mm	Unit 236x840x840					Unit 298x840x840			
		Panel 35 x 950 x 950								
External appearance		Snow white (RAL 9003). Shadow black (RAL 7022)								
Munsell color		(8.0Y9.3 / 0.1). (7.2BG2.9 / 0.6)								
Net weight	kg	Unit 20 Panel 5			Unit 21.5 Panel 5		Unit 25 Panel 5			
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes								
Refrigerant control		Electronic expansion valve								
Air treatment/fan type & quantity		Turbo fan x 1								
Motor	W	58	58	58	58	58	120	120	120	120
Starting method		Direct, in line								
Air flow (standard)	m³h	PHi 900 Hi 840 Me 720 Lo 600	PHi 960 Hi 840 Me 720 Lo 600	PHi 1020 Hi 900 Me 780 Lo 600	PHi 1200 Hi 960 Me 780 Lo 660	PHi 1680 Hi 1020 Me 840 Lo 720	PHi 2220 Hi 1500 Me 1320 Lo 900	PHi 2280 Hi 1560 Me 1380 Lo 1020	PHi 2280 Hi 1680 Me 1500 Lo 1080	PHi 2280 Hi 1740 Me 1560 Lo 1140
Static pressure	Pa	0								
Fresh air inlet		Possible								
Air filter & quantity		Plastic mesh filter x 1 (washable)								
Shock & vibration absorption		Rubber vibration absorber (for fan motor)								
Thermal & acoustic insulation		Polyurethane foam								
Optional control devices		Wired control RC-E5; Wired control RCH-E3; Wired control RC-EX3A; Remote control Kit RCN-T-5BW-E2 (white); Remote control Kit RCN-T-5BB-E2 (black)								
Ambient temperature control		Electronically-controlled thermostat								
Safety devices		Overvoltage protection for the fan motor								
		Anti-frost protection thermostat								
Refrigerant pipings' diameter	mm (in)	Liquid side: Ø6.35 (1/4")				Liquid side: Ø9.52 (3/8")				
		Gas side: Ø9.52 (3/8")	Gas side: Ø12.7 (1/2")			Gas side: Ø15.88 (5/8")				
Joining method		flare								
Refrigerant		R410A								
Drain pump		Built-in								
Condensate drain		Can be connected with VP25								
Piping insulation		Necessary (on both sides. Liquid & Gas)								
Accessories included		Assembly kit. Condensate pipe								
Wi-Fi module (optional)		INWFIMHI001R100								

CASSETTE 60x60

FDTC 15-56 KXZE1
Linear standard panel
TC-PSAG-5AW-E

WiFi optional

FDTC 15-56 KXZE1
Anti-draft honeycomb panel
TC-PSAE-5AW-E

- **6 capacities**
  (1.50~5.60 kW)
- Ideal for residential and commercial applications: the cassette becomes invisible because it is completely built into the false ceiling
- Removable caps on the 4 corners for easy installation
- Individual louver movement control
- Anti-draft panel: flexible flap control FDTC (optional)
- Corner with "Human Sensor": LB-TC-5W-E
- Condensate drain pump as standard: raises condensation up to 850 mm from the flush panel

ANTIDRAFT PANEL

Maximum comfort without direct drafts: new flap control for greater flexibility.

Model		FDTC 15 KXZE1	FDTC 22 KXZE1	FDTC 28 KXZE1	FDTC 36 KXZE1	FDTC 45 KXZE1	FDTC 56 KXZE1
Standard honeycomb/linear panel		**TC-PSA-5AW-E / TC-PSAG-5AW-E**					
Anti-draft honeycomb / linear panel		TC-PSAE-5AW-E / TC-PSAGE-5AW-E					
Rated capacity (Cooling)	kW	1.50	2.20	2.80	3.60	4.50	5.60
Rated capacity (Heating)	kW	1.70	2.50	3.20	4.00	5.00	6.30
Power supply		220-240V~ 50Hz					
Power input (Cooling)	kW	0.03 - 0.03	0.03 - 0.03	0.03 - 0.03	0.04 - 0.04	0.05 - 0.05	0.06 - 0.06
Power input (Heating)	kW	0.03 - 0.03	0.03 - 0.03	0.03 - 0.03	0.04 - 0.04	0.05 - 0.05	0.06 - 0.06
Rated current (Cooling)	A	0.25 - 0.25	0.25 - 0.25	0.25 - 0.25	0.38 - 0.38	0.43 - 0.43	0.54 - 0.54
Rated current (Heating)	A	0.25 - 0.25	0.25 - 0.25	0.25 - 0.25	0.38 - 0.38	0.43 - 0.43	0.54 - 0.54
Sound pressure level	dB(A)	Hi 30 Me 28 Lo 25	Hi 32 Me 29 Lo 25	Hi 32 Me 29 Lo 25	Hi 36 Me 31 Lo 26	Hi 39 Me 36 Lo 28	Hi 43 Me 39 Lo 31
Sound power level	dB(A)	47	49	49	54	58	60
External dimensions (HxLxD)	mm	Unit 248x570x570					
		Panel 10x620x620					
External appearance		Snow white (RAL 9003)					
Munsell color		(8.0Y9.3 / 0.1) similar					
Net weight	kg	Unit 12.5 Panel 2.5	Unit 13 Panel 2.5		Unit 14 Panel 2.5		
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes					
Refrigerant control		Electronic expansion valve					
Air treatment/fan type & quantity		Turbo fan x 1					
Motor	W	50					
Starting method		Direct. in line					
Air flow (standard)	m³h	Hi 420 Me 360 Lo 300	Hi 480 Me 420 Lo 360	Hi 480 Me 420 Lo 360	Hi 540 Me 480 Lo 360	Hi 600 Me 540 Lo 420	Hi 720 Me 600 Lo 480
Static pressure	Pa	0					
Fresh air inlet		Possible with accessories					
Air filter & quantity		Plastic mesh filter x 1 (washable)					
Shock & vibration absorption		Rubber vibration absorber (for fan motor)					
Thermal & acoustic insulation		Polyurethane foam					
Optional control devices		Wired control RC-E5; Wired control RCH-E3; Wired control RC-EX3A; Remote control Kit RCN-TC-5AW-E3					
Ambient temperature control		Electronically-controlled thermostat					
Safety devices		Overvoltage protection for the fan motor					
		Anti-frost protection thermostat					
Refrigerant pipings' diameter	mm	Liquid side: Ø6.35 (1/4")					
	(in)	Gas side: Ø9.52 (3/8")			Gas side: Ø12.7 (1/2")		
Joining method		flare					
Refrigerant		R410A					
Drain pump		Built-in					
Condensate drain		Can be connected with VP25					
Piping insulation		Necessary (on both sides. Liquid & Gas)					
Accessories		Assembly kit; TC-OAS-E2 (Optional); TC-OAD-E (Optional)					
Wi-Fi module (optional)		INWFIMHI001R100					

FDTC 15-56 KXZE1
Standard honeycomb panel
TC-PSA-5AW-E

FDTC 15-56 KXZE1
Linear anti-draft panel
TC-PSAGE-5AW-E

2 TYPES OF GRILLES

Possibility of choosing between honeycomb grille and linear grille.

INDOOR UNITS

2-WAY CASSETTE

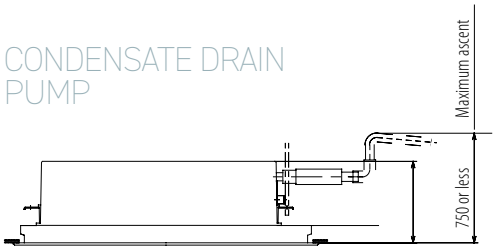
WiFi optional

FDTW 28~140 KXE6F

7 capacities
(2.80~14.00 kW)

- Can be fully built in to the false ceiling, enabling uniform air distribution in environments with a rectangular perimeter
- Panels: TW-PSA-26W-E (Models FDTW 28/45/56/71 KXE6F); TW-PSA-46W-E (Models FDTW 90/112/140 KXE6F)
- "Human sensor": LB-TW-6W

CONDENSATE DRAIN PUMP



INDIVIDUAL CONTROL OF AIR OUTLET FLAPS

The new design of the flaps ensures uniform, wide-ranging air distribution throughout the area to be conditioned. The enlargement of the delivery vents has significantly reduced the load on the fan motor, resulting in increased energy efficiency.

Model		FDTW 28 KXE6F	FDTW 45 KXE6F	FDTW 56 KXE6F	FDTW 71 KXE6F	FDTW 90 KXE6F	FDTW 112 KXE6F	FDTW 140 KXE6F
Panel (Optional)		TW-PSA-26W-E	TW-PSA-26W-E	TW-PSA-26W-E	TW-PSA-26W-E	TW-PSA-46W-E	TW-PSA-46W-E	TW-PSA-46W-E
Rated capacity (Cooling)	kW	2.80	4.50	5.60	7.10	9.00	11.20	14.00
Rated capacity (Heating)	kW	3.20	5.00	6.30	8.00	10.00	12.50	16.00
Power supply		220-240V~ 50Hz						
Power input (Cooling)	kW	0.09 - 0.09	0.10 - 0.10	0.10 - 0.10	0.14 - 0.14	0.19 - 0.19	0.19 - 0.19	0.19 - 0.19
Power input (Heating)	kW	0.09 - 0.09	0.10 - 0.10	0.10 - 0.10	0.14 - 0.14	0.19 - 0.19	0.19 - 0.19	0.19 - 0.19
Rated current (Cooling)	A	0.45 - 0.45	0.55 - 0.55	0.55 - 0.55	0.75 - 0.75	1.00 - 1.00	1.00 - 1.00	1.00 - 1.00
Rated current (Heating)	A	0.45 - 0.45	0.55 - 0.55	0.55 - 0.55	0.75 - 0.75	1.00 - 1.00	1.00 - 1.00	1.00 - 1.00
Sound pressure level	dB(A)	Hi 38 Me 34 Lo 31	Hi 38 Me 34 Lo 31	Hi 38 Me 34 Lo 31	Hi 38 Me 34 Lo 31	Hi 45 Me 41 Lo 37	Hi 45 Me 41 Lo 37	Hi 45 Me 41 Lo 37
Sound power level	dB(A)	58	58	58	58	65	65	65
External dimensions (HxLxD)	mm	Unit 325x820x620				Unit 325x1535x620		
		Panel 20x1120x680				Panel 20x1835x680		
External appearance		Chalk white						
Munsell color		(6.8Y8.9 / 0.2) similar						
Net weight	kg	Unit 20 Panel 8.5	Unit 21 Panel 8.5		Unit 23 Panel 8.5	Unit 35 Panel 13		
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes						
Refrigerant control		Electronic expansion valve						
Air treatment/fan type & quantity		Turbo fan x 1					Turbo fan x 2	
Motor	W	30	35	35	40	35 x 2		
Starting method		Direct. in line						
Air flow (standard)	m^3h	Hi 720 Me 600 Lo 540				Hi 1620 Me 1380 Lo 1200		
Static pressure	Pa	0						
Fresh air inlet		Possible						
Air filter & quantity		Plastic mesh filter x 1 (washable)						
Shock & vibration absorption		Rubber vibration absorber (for fan motor)						
Thermal & acoustic insulation		Polyurethane foam						
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-TW-E2 Optional; RC-EX3 Optional						
Ambient temperature control		Electronically-controlled thermostat						
Safety devices		Overvoltage protection for the fan motor						
		Anti-frost protection thermostat						
Refrigerant pipings' diameter	mm	Liquid side Ø6.35 (1/4")			Liquid side Ø9.52 (3/8")			
	(in)	Gas side Ø9.52 (3/8")	Gas side Ø12.7 (1/2")		Gas side Ø15.88 (5/8")			
Joining method		flare						
Refrigerant		R410A						
Drain pump		Built-in						
Condensate drain		Can be connected with VP25						
Piping insulation		Necessary (on both sides. Liquid & Gas)						
Accessories		Assembly kit						

1-WAY CASSETTE

WiFi optional

- **2 capacities** (4.50 and 7.10 kW)
- Can be mounted on the ceiling with a suspended unit or built into the false ceiling
- Maximum compactness: only 22 cm high, ideal for installations in environments with low false ceilings
- Wide air flow, ideal for environments with very high ceilings
- Possibility to connect air renewal ducts
- Panel: TS-PSA-3AW-E
- "Human sensor": LB-KIT2

FDTS 45-71KXE6F

ULTRA-COMPACT MODEL

Ultra-compact design: its height of only 22 cm and weight of 27/28 kg guarantee easy and quick installation.

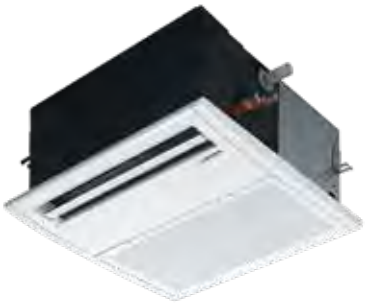
INDIVIDUAL CONTROL OF AIR OUTLET FLAPS

The new design of the louvres ensures uniform, wide-ranging air distribution throughout the area to be conditioned. The enlargement of the delivery vents has significantly reduced the load on the fan motor, resulting in increased energy efficiency.

Model		FDTS 45 KXE6F	FDTS 71 KXE6F
Panel (Optional)		TS-PSA-3AW-E	TS-PSA-3AW-E
Rated capacity (Cooling)	kW	4.50	7.10
Rated capacity (Heating)	kW	5.00	8.00
Power supply		220-240V~ 50Hz	
Power input (Cooling)	kW	0.04 - 0.04	0.09 - 0.09
Power input (Heating)	kW	0.04 - 0.04	0.09 - 0.09
Rated current (Cooling)	A	0.27 - 0.25	0.60 - 0.55
Rated current (Heating)	A	0.27 - 0.25	0.60 - 0.55
Sound pressure level	dB(A)	Hi 40 Me 38 Lo 35	Hi 44 Me 41 Lo 36
Sound power level	dB(A)	60	61
External dimensions (HxLxD)	mm	Unit 220x1150x565	
		Panel 35x1250x650	
External appearance		Chalk white	
Munsell color		(6.8Y8.9 / 0.2) similar	
Net weight	kg	Unit 27 Panel 5	Unit 28 Panel 5
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes	
Refrigerant control		Electronic expansion valve	
Air treatment/fan type & quantity		Centrifugal fan x 4	
Motor	W	35	70
Starting method		Direct. in line	Direct. in line
Air flow (standard)	m³h	Hi 720 Me 660 Lo 570	Hi 900 Me 720 Lo 600
Static pressure	Pa	0	
Fresh air inlet		Possible	
Filter aria e quantità		Plastic mesh filter x 2 (washable)	Plastic mesh filter x 3 (washable)
Shock & vibration absorption		Rubber vibration absorber (for fan motor)	
Thermal & acoustic insulation		Polyurethane foam	
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-TS-E2 Optional; RC-EX3 Optional	
Ambient temperature control		Electronically-controlled thermostat	
Safety devices		Overvoltage protection for the fan motor	
		Anti-frost protection thermostat	
Refrigerant pipings' diameter	mm (in)	Liquid side Ø6.35 (1/4")	Liquid side Ø9.52 (3/8")
		Gas side Ø12.7 (1/2")	Gas side Ø15.88 (5/8")
Joining method		flare	
Refrigerant		R410A	
Drain pump		Built-in	
Condensate drain		Can be connected with VP25	
Piping insulation		Necessary (on both sides. Liquid & Gas)	
Accessories		Assembly kit	

INDOOR UNITS

1-WAY COMPACT DUCTED CASSETTE

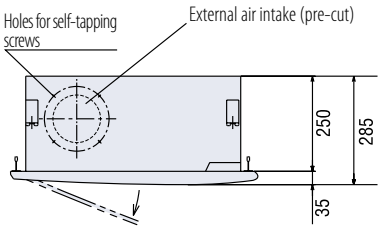


WiFi optional

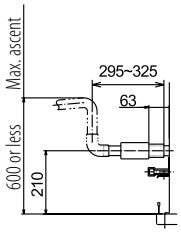
- **3 capacities** (2.20~3.60 kW)
- Ideal for for smaller environments, with a fan speed of only 300 m³/h
- Panel with direct delivery
- Panel equipped with motorised louvre for comfortable air flow distribution
- Condensate drain pump as standard h 60 cm

FDTQ 22~36 KXE6F

ULTRA-COMPACT MODEL



STANDARD CONDENSATE DRAIN PUMP



Model		FDTQ 22 KXE6F	FDTQ 28 KXE6F	FDTQ 36 KXE6F
Panel (Optional)		Direct delivery	Direct delivery	Direct delivery
		TQ-PSA-15W-E	TQ-PSA-15W-E	TQ-PSA-15W-E
Rated capacity (Cooling)	kW	2.20	2.80	3.60
Rated capacity (Heating)	kW	2.50	3.20	4.00
Power supply		220-240V~ 50Hz		
Power input (Cooling)	kW	0.05 - 0.07	0.05 - 0.07	0.05 - 0.07
Power input (Heating)	kW	0.05 - 0.07	0.05 - 0.07	0.05 - 0.07
Starting current (Cooling)	A	0.25 - 0.32	0.25 - 0.32	0.25 - 0.32
Starting current (Heating)	A	0.25 - 0.32	0.25 - 0.32	0.25 - 0.32
Sound pressure level	dB(A)	Hi 41 Me 38 Lo 33	Hi 41 Me 38 Lo 33	Hi 41 Me 38 Lo 33
Sound power level	dB(A)	60	60	60
External dimensions (HxLxD)	mm	Unit 250x570x570		
		Panel 35x625x650		
External appearance		Chalk white		
Munsell color		(6.8Y8.9 / 0.2) similar		
Net weight	kg	Unit 23 Panel 2.5		
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes		
Refrigerant control		Electronic expansion valve		
Air treatment/fan type & quantity		Centrifugal fan x 1		
Motor	W	30	30	30
Starting method		Direct. in line		
Air flow (standard)	m³h	Hi 420 Me 360 Lo 300	Hi 420 Me 360 Lo 300	Hi 420 Me 360 Lo 300
Static pressure	Pa	0		
Fresh air inlet		Possible		
Air filter & quantity		Plastic mesh filter x 1 (washable)		
Shock & vibration absorption		Rubber vibration absorber (for fan motor)		
Thermal & acoustic insulation		Polyurethane foam		
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-KIT4-E2 Optional; RC-EX3 Optional		
Ambient temperature control		Electronically-controlled thermostat		
Safety devices		Overvoltage protection for the fan motor		
		Anti-frost protection thermostat		
Refrigerant pipings' diameter	mm (in)	Liquid side: Ø6.35 (1/4")		
		Gas side: Ø9.52 (3/8")		Gas side: Ø12.7 (1/2")
Joining method		flare		
Refrigerant		R410A		
Drain pump		Built-in		
Condensate drain		Can be connected with VP20		
Piping insulation		Necessary (on both sides. Liquid & Gas)		
Accessories		Assembly kit		

DUCTED HIGH STATIC PRESSURE ADJUSTABLE

WiFi optional

FDU 45~160 KXE6F

FDU 224~280 KXZE1

- **9 capacities**
  (4.50~28.00 kW)
- Units with rear recovery
- Adjustable static pressure 100~200 Pa for the models from 4.50 to 16.00 kW and only 200 Pa for the models from 22.40 to 28.00 kW
- Maximum compactness: only 28 cm (models from 4.50 to 16.00 kW) and 37.9 cm high (22.40 and 28.00 kW models)
- Integrated condensate drain pump for models from 4.50 to 16.00 kW
- "Human sensor": LB-KIT2

COMPACT SIZE

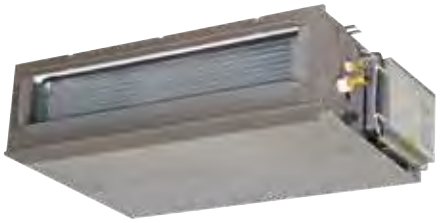
Models from 4.50 to 16.00 kW

Models from 22.40 to 28.00 kW

Model		FDU 45 KXE6F	FDU 56 KXE6F	FDU 71 KXE6F	FDU 90 KXE6F	FDU 112 KXE6F	FDU 140 KXE6F	FDU 160 KXE6F	FDU 224 KXZE1	FDU 280 KXZE1
Rated capacity (Cooling)	kW	4.50	5.60	7.10	9.00	11.20	14.00	16.00	22.40	28.00
Rated capacity (Heating)	kW	5.00	6.30	8.00	10.00	12.50	16.00	18.00	25.00	31.50
Power supply		220-240V~ 50Hz								
Power input (Cooling)	kW	0. 10 - 0. 10	0. 10 - 0. 10	0. 24 - 0. 25	0. 24 - 0. 25	0. 31 - 0. 32	0. 35 - 0. 36	0. 42 - 0. 43	1. 16 - 1. 20	1. 16 - 1. 20
Power input (Heating)	kW	0. 10 - 0. 10	0. 10 - 0. 10	0. 24 - 0. 25	0. 24 - 0. 25	0. 31 - 0. 32	0. 35 - 0. 36	0. 42 - 0. 43	1. 16 - 1. 20	1. 16 - 1. 20
Rated current (Cooling)	A	0. 63 - 0. 58	0. 63 - 0. 58	1. 80 - 1. 70	1. 80 - 1. 70	2. 00 - 2. 00	2. 30 - 2. 20	2. 70 - 2. 50	6. 80 - 6. 50	6. 80 - 6. 50
Rated current (Heating)	A	0. 63 - 0. 58	0. 63 - 0. 58	1. 80 - 1. 70	1. 80 - 1. 70	2. 00 - 2. 00	2. 30 - 2. 20	2. 70 - 2. 50	6. 80 - 6. 50	6. 80 - 6. 50
Sound pressure level	dB(A)	Hi 32 Med 29 Lo 26		Hi 33 Med 29 Lo 25		Hi 38 Med 36 Lo 30	Hi 40 Med 34 Lo 29	Hi 40 Med 35 Lo 30	P-Hi 52 Hi 50 Med 47 Lo 35	
Sound power level	dB(A)	60		65		71	72	74	75	
External dimensions (HxLxD)	mm	280x750x635		280x950x635		280x1370x740			379x1600x893	
Net weight	kg	29		34		54			89	
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes								
Refrigerant control		Electronic expansion valve								
Air treatment/fan type & quantity		Centrifugal fan x 1								
Motor	W	100		130		100 + 130	100 + 200		130 + 350	
Starting method		Direct. in line								
Air flow (standard)	m³h	Hi 600 Med 540 Lo 480		Hi 1140 Med 900 Lo 600		Hi 1680 Med 1500 Lo 1140	Hi 1920 Med 1560 Lo 1200	Hi 2100 Med 1680 Lo 1320	P-Hi 4800 Hi 4320 Med 3840 Lo 3360	
Static pressure	Pa	Standard 100 Max 200							Max 200	
Fresh air inlet		Possible								
Air filter & quantity		To be found locally								
Shock & vibration absorption		Rubber vibration absorber (for fan motor)								
Thermal & acoustic insulation		Polyurethane foam								
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-KIT4-E2 Optional; RC-EX3 Optional								
Ambient temperature control		Electronically-controlled thermostat								
Safety devices		Overvoltage protection for the fan motor								
		Anti-frost protection thermostat								
Refrigerant pipings' diameter	mm	Liquid side: Ø6.35 (1/4")		Liquid side Ø9.52 (3/8")						
	(in)	Gas side: Ø12.7 (1/2")		Gas side Ø15.88 (5/8")					Gas side Ø19.05 (3/4")	Gas side Ø22.2 (7/8")
Joining method		flare							to weld	
Refrigerant		R410A								
Drain pump		Built-in							-	
Condensate drain		Can be connected with VP25								
Piping insulation		Necessary (on both sides. Liquid & Gas)								
Accessories		-								

INDOOR UNITS

DUCTED MEDIUM AND LOW STATIC PRESSURE ADJUSTABLE

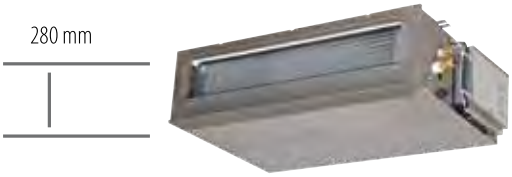


WiFi optional

FDUM 22~160 KXE6F

- **10 capacities**
  (2.20~16.00 kW)
- Ultra-compact design: only 28 cm in height
- Optional filter kit UM-FL1EF (FDUM 22~56 KXE6F), UM-FL2EF (FDUM 71~90 KXE6F), UM-FL3EF (FDUM 112~160 KXE6F)
- ESP function: automatic maintenance of the air flow rate as flow resistance varies
- "Human sensor": LB-KIT2

COMPACT SIZE



For all models

Model		FDUM 22 KXE6F	FDUM 28 KXE6F	FDUM 36 KXE6F	FDUM 45 KXE6F	FDUM 56 KXE6F	FDUM 71 KXE6F	FDUM 90 KXE6F	FDUM 112 KXE6F	FDUM 140 KXE6F	FDUM 160 KXE6F
Rated capacity (Cooling)	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Rated capacity (Heating)	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	18.00
Power supply		220-240V~ 50Hz									
Power input (Cooling)	kW	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.20 - 0.20	0.20 - 0.20	0.29 - 0.29	0.33 - 0.33	0.33 - 0.33
Power input (Heating)	kW	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.10 - 0.10	0.20 - 0.20	0.20 - 0.20	0.29 - 0.29	0.33 - 0.33	0.33 - 0.33
Rated current (Cooling)	A	0.46 - 0.42	0.46 - 0.42	0.46 - 0.42	0.46 - 0.42	0.46 - 0.42	0.91 - 0.83	0.91 - 0.83	1.32 - 1.21	1.50 - 1.38	1.50 - 1.38
Rated current (Heating)	A	0.46 - 0.42	0.46 - 0.42	0.46 - 0.42	0.46 - 0.42	0.46 - 0.42	0.91 - 0.83	0.91 - 0.83	1.32 - 1.21	1.50 - 1.38	1.50 - 1.38
Sound pressure level	dB(A)	Hi 32 Me 29 Lo 26					Hi 33 Me 29 Lo 25		Hi 38 Me 36 Lo 30	Hi 40 Me 34 Lo 29	
Sound power level	dB(A)	60					64		71	72	74
External dimensions (HxLxD)	mm	280x750x635					280x950x635		280x1370x740		
Net weight	kg	29					34		54		
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes									
Refrigerant control		Electronic expansion valve									
Air treatment/fan type & quantity		Centrifugal fan x 2									
Motor	W	100	100	100	100	100	130	130	100 + 130	100 + 200	100 + 200
Starting method		Direct. in line									
Air flow (standard)	m³h	Hi 600 Me 540 Lo 480					Hi 1140 Me 900 Lo 600		Hi 1680 Me 1500 Lo 1140	Hi 1920 Me 1560 Lo 1200	
Static pressure	Pa	Max 100									
Fresh air inlet		Possible									
Air filter & quantity		Optional									
Shock & vibration absorption		Rubber vibration absorber (for fan motor)									
Thermal & acoustic insulation		Polyurethane foam									
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-KIT4-E2 Optional;RC-EX3 Optional									
Ambient temperature control		Electronically-controlled thermostat									
Safety devices		Overvoltage protection for the fan motor									
		Anti-frost protection thermostat									
Refrigerant pipings' diameter	mm	Liquid side: Ø6.35 (1/4")					Liquid side Ø9.52 (3/8")				
	(in)	Gas side: Ø9.52 (3/8")		Gas side: Ø12.7 (1/2")			Gas side Ø15.88 (5/8")				
Joining method		flare									
Refrigerant		R410A									
Drain pump		Built-in									
Condensate drain		Can be connected with VP20 o VP25									
Piping insulation		Necessary (on both sides. Liquid & Gas)									
Accessories		UM-FL1EF (Optional)					UM-FL2EF (Optional)		UM-FL3EF(Optional)		

ALL-OUTSIDE AIR DUCTED

WiFi optional

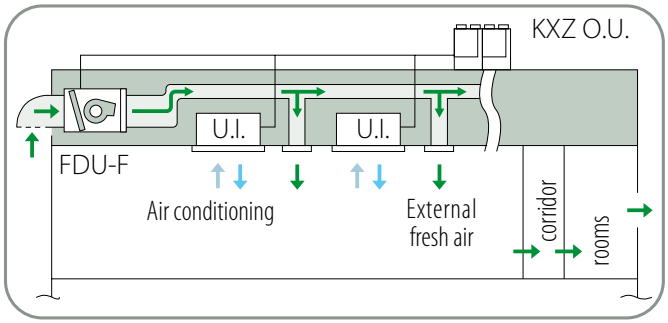
FDU 650~2400 FKXZE1

4 capacities
(9.00~28.00 kW)

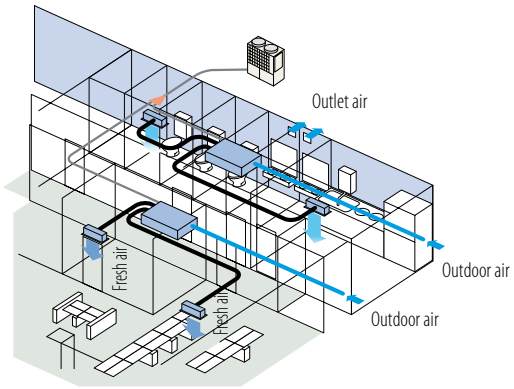
- Maximum compactness: only 28 cm (9.00~14.00 kW) and only 37.9 cm (22.40~28.00 kW)
- Max static pressure of fans: 200 Pa
- Automatic function "all-outside air" to save energy when the outdoor temperature drops below the set temperature.
- Can be connected to 8~60HP outdoor units except Micro Compact KXZ (4~6HP) and KXZ Smart

AIR CONDITIONING AND OUTDOOR AIR INTAKE

The diagram below illustrates the integration of the FDU-F unit inside a KXZ system.



Note: Check the possible connections and limits of use on the technical documentation.



The compact design, the fan static pressure of 200 Pa and the lowest noise level on the market make the unit suitable for installation in environments designed to ensure comfort and relaxation.

Model		FDU 650 FKXZE1	FDU 1100 FKXZE1	FDU 1800 FKXZE1	FDU 2400 FKXZE1
Rated capacity (Cooling)	kW	9.00	14.00	22.40	28.00
Rated capacity (Heating)	kW	6.50	10.50	16.00	21.50
Power supply		220-240V~ 50Hz			
Power input (Cooling)	kW	0.24 - 0.25	0.35 - 0.36	1.16 - 1.20	1.16 - 1.20
Power input (Heating)	kW	0.24 - 0.25	0.35 - 0.36	1.16 - 1.20	1.16 - 1.20
Rated current (Cooling)	A	1.80 - 1.70	2.30 - 2.20	6.80 - 6.50	6.80 - 6.50
Rated current (Heating)	A	1.80 - 1.70	2.30 - 2.20	6.80 - 6.50	6.80 - 6.50
Sound power level	dB(A)	55	62	68	70
Sound pressure level	dB(A)	Hi 31	Hi 37	Hi 42	Hi 45
External dimensions (HxLxD)	mm	280x950x635	280x1370x740	379x1600x893	379x1600x893
Net weight	kg	34	54	89	89
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes			
Refrigerant control		Electronic expansion valve			
Air treatment/fan type & quantity		Centrifugal fan x 2	Centrifugal fan x 3		
Motor	W	130	100 + 200	130 + 350	130 + 350
Starting method		Direct. in line			
Air flow (standard)	m³h	Hi 660	Hi 1080	Hi 1800	Hi 2400
Static pressure	Pa	Max: 200	Max: 200	Max: 200	Max: 200
Air filter & quantity		To be found locally			
Shock & vibration absorption		Rubber vibration absorber (for fan motor)			
Thermal & acoustic insulation		Polyurethane foam			
Control devices		Wired control: RC-EX3. RC-E5. RCH-E3			
		Remote control Kit: RCN-KIT4-E2			
Ambient temperature control		Electronic thermostat			
Safety devices		Thermal protection for the fan motor			
		Anti-frost protection thermostat			
Refrigerant pipings' diameter	mm (inch)	Liquid side Ø9.52 (3/8")			
		Gas side Ø15.88 (5/8")		Gas side Ø19.05 (3/4")	Gas side Ø22.22 (7/8")
Joining method		flare		to weld	
Refrigerant		R410A			
Drain pump		Built-in			
Condensate drain		Can be connected with VP25			
Piping insulation		Necessary (on both sides. Liquid & Gas)			
Accessories included		Condensate drain pipe			

INDOOR UNITS

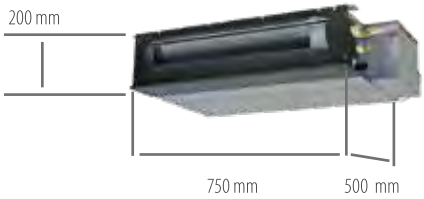
DUCTED LOW STATIC PRESSURE

WiFi optional

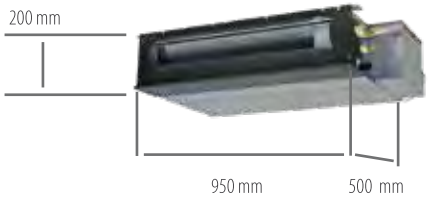
- **7 capacities** (1.50~7.10 kW)
- Ideal for applications in hotels, hospitals and small offices
- Optional filter kit: UT-FL1EF (FDUT 15~36); UT-FL2EF (FDUT 45~56); UT-FL3EF (FDUT 71)
- Ducting flange: UT-SAT1EF (FDUT 15~36); UT-SAT2EF (FDUT 45~56); UT-SAT3EF (FDUT 71)
- "Human sensor": LB-KIT2

FDUT 15~71 KXE6F-E

COMPACT SIZE



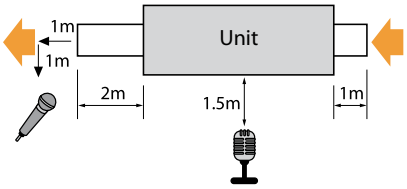
models FDUT 15, 22, 28, 36 KXE6F-E



models FDUT 45, 56 KXE6F-E

VERY QUIET OPERATION

Extremely quiet: only 22 dB(A) for models from 1.50~2.80 kW.



Model		FDUT 15 KXE6F-E	FDUT 22 KXE6F-E	FDUT 28 KXE6F-E	FDUT 36 KXE6F-E	FDUT 45 KXE6F-E	FDUT 56 KXE6F-E	FDUT 71 KXE6F-E
		Rear view						
Rated capacity (Cooling)	kW	1.50	2.20	2.80	3.60	4.50	5.60	7.10
Rated capacity (Heating)	kW	1.70	2.50	3.20	4.00	5.00	6.00	8.00
Power supply		220-240V~ 50Hz						
Power input (Cooling)	kW	0.06 - 0.06	0.07 - 0.07	0.07 - 0.07	0.07 - 0.07	0.08 - 0.08	0.08 - 0.08	0.08 - 0.08
Power input (Heating)	kW	0.06 - 0.06	0.07 - 0.07	0.07 - 0.07	0.07 - 0.07	0.08 - 0.08	0.08 - 0.08	0.07 - 0.07
Rated current (Cooling)	A	0.27 - 0.27	0.28 - 0.25	0.28 - 0.25	0.32 - 0.29	0.36 - 0.33	0.38 - 0.35	0.42 - 0.42
Rated current (Heating)	A	0.27 - 0.27	0.29 - 0.25	0.29 - 0.25	0.33 - 0.28	0.34 - 0.32	0.35 - 0.33	0.46 - 0.46
Sound pressure level	dB(A)	Hi 28 Me 26 Lo 22			Hi 33 Me 30 Lo 26	Hi 34 Me 32 lo 28	Hi 35 Me 33 Lo 30	Hi 35 Me 31 Lo 28
Sound power level	dB(A)	52			57	58	59	
External dimensions (HxLxD)	mm	200x750x500				200x950x500		220x1150x565
Net weight	kg	21			22	25		31
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes						
Refrigerant control		Electronic expansion valve						
Air treatment/fan type & quantity		Centrifugal fan x 2				Centrifugal fan x 3		Centrifugal fan x 4
Motor	W	14				38		100
Starting method		Direct. in line						
Air flow (standard)	m3h	Hi 360 Me 300 Lo 240	Hi 450 Me 360 Lo 300		Hi 510 Me 420 Lo 330	Hi 690 Me 540 Lo 420	Hi 750 Me 540 Lo 432	Hi 960 Me 780 Lo 570
Static pressure	Pa	St. 10 Max 35				St. 10 Max 50		
Fresh air inlet		Not possible						
Air filter & quantity		UT-FL1EF (Optional)				UT-FL2EF (Optional)		UT-FL3EF (Optional)
Shock & vibration absorption		Rubber vibration absorber (for fan motor)						
Thermal & acoustic insulation		Polyurethane foam						
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-KIT4-E2 Optional; RC-EX3 Optional						
Ambient temperature control		Electronically-controlled thermostat						
Safety devices		Overvoltage protection for the fan motor; Anti-frost protection thermostat						
Refrigerant pipings' diameter	mm	Liquid side ø6.35 (1/4")						Liquid side ø9.52 (3/8")
	(in)	Gas side ø9.52 (3/8")			Gas side ø12.7 (1/2")			Gas side Ø15.88 (5/8")
Joining method		flare						
Refrigerant		R410A						
Drain pump		Built-in						
Condensate drain		Can be connected with VP25						
Piping insulation		Necessary (on both sides. Liquid & Gas)						
Accessories		Assembly kit, UT-SAT1EF (Flange)				Assembly kit, UT-SAT2EF (Flange)		Assembly kit, UT-SAT3EF (Flange)

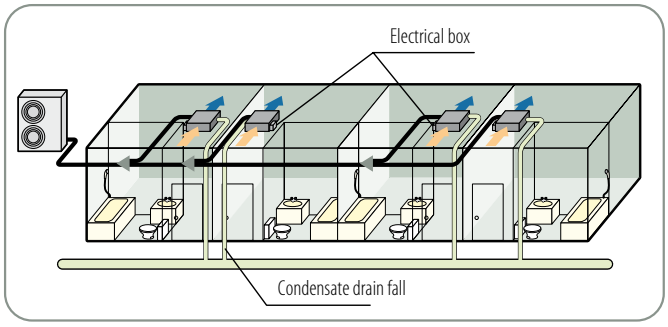
COMPACT DUCTED

WiFi optional

FDUH 22~36 KXE6F

- **3 capacities** (2,20~3,60 kW)
- Maximum compactness: only 25.7 cm in height
- Maximum installation flexibility
- Rear air intake from back
- Extremely quiet: only 27 dB(A)
- UH-DU-E condensate drain kit (optional)

THE ELECTRICAL BOX



The electrical box and the condensate drain pump can be installed on both sides of the unit, while the incoming air penetrates through the bottom or the back.

The lowest noise impact on the market makes the unit suitable for installation in rooms designed to ensure comfort and relaxation. Compact and lightweight, FDUH is ideal for installation in hotels, hospitals and small offices.

Furthermore, the application of the RCH-E3 remote control (optional) enables the user to take advantage of a simplified device to prepare and make the environment to be air conditions as comfortable as possible.

Model		FDUH 22 KXE6F	FDUH 28 KXE6F	FDUH 36 KXE6F
Rated capacity (Cooling)	kW	2.20	2.80	3.60
Rated capacity (Heating)	kW	2.50	3.20	4.00
Power supply		220-240V~ 50Hz		
Power input (Cooling)	kW	0.05 - 0.07	0.05 - 0.07	0.05 - 0.07
Power input (Heating)	kW	0.05 - 0.07	0.05 - 0.07	0.05 - 0.07
Rated current (Cooling)	A	0.25 - 0.32	0.25 - 0.32	0.25 - 0.32
Rated current (Heating)	A	0.25 - 0.32	0.25 - 0.32	0.25 - 0.32
Sound pressure level	dB(A)	Hi 33 Me 30 Lo 27		
Sound power level	dB(A)	60		
External dimensions (HxLxD)	mm	Unit 257x570x530		
Net weight	kg	22		
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes		
Refrigerant control		Electronic expansion valve		
Air treatment/fan type & quantity		Centrifugal fan x 1		
Motor	W	30		
Starting method		Direct. in line		
Air flow (standard)	m³h	Hi 420 Me 390 Lo 360		
Static pressure	Pa	30		
Fresh air inlet		Not possible		
Air filter & quantity		Optional		
Shock & vibration absorption		Rubber vibration absorber (for fan motor)		
Thermal & acoustic insulation		Polyurethane foam		
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-KIT4-E2 Optional; RC-EX3 Optional		
Ambient temperature control		Electronically-controlled thermostat		
Safety devices		Overvoltage protection for the fan motor		
		Anti-frost protection thermostat		
Refrigerant pipings' diameter	mm (in)	Liquid side Ø6.35 (1/4")		
		Gas side Ø9.52 (3/8")		Gas side: Ø12.7 (1/2")
Joining method		flare		
Refrigerant		R410A		
Condensate drain		Can be connected with VP20		
Piping insulation		Necessary (on both sides. Liquid & Gas)		
Accessories		UH-FL1E (Filter); UH-DU-E (Condensate drain pump)		

INDOOR UNITS

WALL

FDK 15~56 KXZE1

FDK 71~90 KXZE1

WiFi optional

8 capacities
(1.50~9.00 kW)

- Simple, modern design for seamless integration into any environment (1.50~ 5.60 kW)
- Maximum compactness: only 23 cm deep (1.50~5.60 kW)
- Simplified maintenance and cleaning thanks to the easily removable front panel
- "Human sensor": LB-KIT2

Model		FDK 15 KXZE1	FDK 22 KXZE1	FDK 28 KXZE1	FDK 36 KXZE1	FDK 45 KXZE1	FDK 56 KXZE1	FDK 71 KXZE1	FDK 90 KXZE1
Rated capacity (Cooling)	kW	1.50	2.20	2.80	3.60	4.50	5.60	7.10	9.00
Rated capacity (Heating)	kW	1.70	2.50	3.20	4.00	5.00	6.30	8.00	10.00
Power supply		220-240V~ 50Hz							
Power input (Cooling)	kW	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.05
Power input (Heating)	kW	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.05
Rated current (Cooling)	A	0.18 - 0.16	0.18 - 0.16	0.18 - 0.16	0.27 - 0.25	0.27 - 0.25	0.27 - 0.25	0.34 - 0.31	0.42 - 0.39
Rated current (Heating)	A	0.18 - 0.16	0.18 - 0.16	0.18 - 0.16	0.27 - 0.25	0.27 - 0.25	0.27 - 0.25	0.34 - 0.31	0.42 - 0.39
Sound pressure level (Cooling)	dB(A)	PHi 38 Hi 34 Me 31 Lo 28			PHi 40 Hi 38 Me 33 Lo 28	PHi 43 Hi 41 Me 36 Lo 33		PHi 42 Hi 40 Me 37 Lo 35	PHi 44 Hi 42 Me 39 Lo 35
Sound pressure level (Heating)		PHi 38 Hi 34 Me 31 Lo 28	PHi 38 Hi 36 Me 32 Lo 28		PHi 40 Hi 38 Me 33 Lo 28	PHi 43 Hi 41 Me 36 Lo 33	PHi 44 Hi 42 Me 37 Lo 33	PHi 42 Hi 40 Me 37 Lo 35	PHi 44 Hi 42 Me 39 Lo 35
Sound power level (Cooling)	dB(A)	54	55		58		58	59	61
Sound power level (Heating)		54	55		58		61	59	61
External dimensions (HxLxD)	mm	290x870x230						339x1197x262	
External appearance		Snow white							
Munsell color		(8.0Y9.3/0.1) similar							
Net weight	kg	11.5	11		12	11.5		17	
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes							
Refrigerant control		Electronic expansion valve							
Air treatment/fan type & quantity		Tangentialx1							
Motor	W	42						56	
Starting method		Direct. in line							
Air flow (Cooling)	m³h	PHi 342 Hi 300 Me 270 Lo 216	PHi 510 Hi 480 Me 360 Lo 300		PHi 660 Hi 600 Me 480 Lo 420	PHi 720 Hi 660 Me 540 Lo 480		PHi 1260 Hi 1140 Me 960 Lo 840	PHi 1380 Hi 1260 Me 1140 Lo 960
Air flow (Heating)		PHi 342 Hi 300 Me 270 Lo 216	PHi 510 Hi 480 Me 360 Lo 300		PHi 660 Hi 600 Me 480 Lo 420	PHi 720 Hi 660 Me 540 Lo 480		PHi 1260 Hi 1140 Me 960 Lo 840	PHi 1380 Hi 1260 Me 1140 Lo 960
Static pressure	Pa	0							
Fresh air inlet		Not available							
Air filter & quantity		Filter in rete di propilene x 2 (washable)							
Shock & vibration absorption		Rubber vibration absorber (for fan motor)							
Thermal & acoustic insulation		Polyurethane foam							
Control devices		Wired control: RC-EX3, RC-E5, RCH-E3							
		Remote control Kit: RCN-K-E2							
Ambient temperature control		Electronically-controlled thermostat							
Safety devices		Thermal protection for the fan motor							
		Anti-frost protection thermostat							
Refrigerant pipings' diameter	mm (inch)	Liquid side: Ø6.35 (1/4")						Liquid side Ø9.52 (3/8")	
		Gas side: Ø9.52 (3/8")			Gas side Ø12.7 (1/2")			Gas side Ø15.88 (5/8")	
Joining method		flare							
Refrigerant		R410A							
Condensate drain		Can be connected with VP16							
Piping insulation		Necessary (on both sides. Liquid & Gas)							
Accessories included		Assembly kit							

CEILING

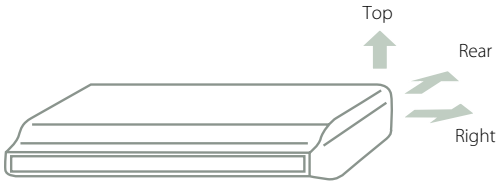
WiFi optional

- **6 capacities** (3.60~14.0 kW)
- Ideal for very large environments, thanks to the particularly wide air flow
- Maximum compactness: only 21 cm high (3.60 to 7.10 kW models)
- Quick and easy installation, thanks to a net weight of only 28 kg (3.60 to 5.60 kW models)
- Reception kit for RCN-E-E2 infrared remote control (optional)
- "Human sensor": LB-E

FDE 36~140 KXZE1

FLEXIBLE PIPE ORIENTATION

Maximum flexibility: the refrigerant piping can be attached in 3 different positions (rear, top, right), as can that of the condensate drain (left, right).



Model		FDE 36 KXZE1	FDE 45 KXZE1	FDE 56 KXZE1	FDE 71 KXZE1	FDE 112 KXZE1	FDE 140 KXZE1
Rated capacity (Cooling)	kW	3.60	4.50	5.60	7.00	11.20	14.00
Rated capacity (Heating)	kW	4.00	5.00	6.30	8.00	12.50	16.00
Power supply		220-240V~ 50Hz					
Power input (Cooling)	kW	0.05 - 0.06	0.05 - 0.06	0.05 - 0.06	0.10 - 0.11	0.14 - 0.16	0.16 - 0.18
Power input (Heating)	kW	0.05 - 0.06	0.05 - 0.06	0.05 - 0.06	0.09 - 0.10	0.13 - 0.15	0.15 - 0.17
Rated current (Cooling)	A	0.25 - 0.26	0.25 - 0.26	0.25 - 0.26	0.46 - 0.48	0.65 - 0.67	0.77 - 0.78
Rated current (Heating)	A	0.23 - 0.25	0.23 - 0.25	0.23 - 0.25	0.42 - 0.44	0.59 - 0.63	0.70 - 0.72
Sound pressure level	dB(A)	Hi 39 Me 38 Lo 36			Hi 41 Me 39 Lo 37	Hi 44 Me 41 Lo 39	Hi 46 Me 44 Lo 43
Sound power level	dB(A)	60			62	61	64
External dimensions (HxLxD)	mm	210x1070x690			210x1320x690	250x1620x690	
External appearance		Chalk white					
Munsell color		(6.8Y8.9 / 0.2) similar					
Net weight	kg	28			37	49	
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes					
Refrigerant control		Electronic expansion valve					
Air treatment/fan type & quantity		Centrifugal fan x 2			Centrifugal fan x 4		
Motor	W	25			20 x 2	30 x 2	40 x 2
Starting method		Direct. in line					
Air flow (standard)	m³h	Hi 600 Me 540 Lo 420			Hi 960 Me 840 Lo 720	Hi 1560 Me 1380 Lo 1260	Hi 1740 Me 1560 Lo 1380
Static pressure	Pa	0					
Fresh air inlet		Not possible					
Air filter & quantity		Plastic mesh filter x 2 (washable)					
Shock & vibration absorption		Rubber vibration absorber (for fan motor)					
Thermal & acoustic insulation		Polyurethane foam					
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-E-E2 Optional; RC-EX3 Optional					
Ambient temperature control		Electronically-controlled thermostat					
Safety devices		Overvoltage protection for the fan motor					
		Anti-frost protection thermostat					
Refrigerant pipings' diameter	mm	Liquid side Ø6.35 (1/4")			Liquid side Ø9.52 (3/8")		
	(in)	Gas side Ø12.7 (1/2")			Gas side Ø15.88 (5/8")		
Joining method		flare					
Refrigerant		R410A					
Condensate drain		Can be connected with VP20					
Piping insulation		Necessary (on both sides. Liquid & Gas)					
Accessories		Assembly kit					

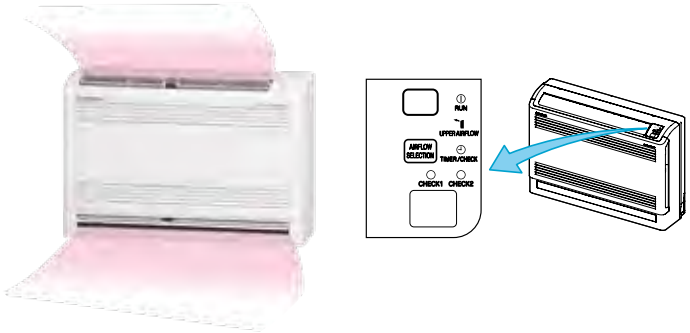
INDOOR UNITS

CONSOLE

WiFi optional

FDFW 28~56 KXE6F

- **3 capacities**
  (2.80~5.60 kW)
- Particularly wide, uniform air flow
- Maximum compactness: only 23.8 cm deep
- Quick and easy installation, thanks to a net weight of only 19 kg (2.80 kW models)
- Reception kit for RCN-FW-E2 infrared remote control (optional)



UNIFORM AIR DISTRIBUTION

Simultaneous louvre selection - top and bottom - can be selected at the same time using the special button. Control all other functions on the unit with the special remote control.

With infrared remote control use

Model		FDFW 28 KXE6F	FDFW 45 KXE6F	FDFW 56 KXE6F
Rated capacity (Cooling)	kW	2.80	4.50	5.60
Rated capacity (Heating)	kW	3.20	5.00	6.30
Power supply		220-240V~ 50Hz		
Power input (Cooling)	kW	0.02 - 0.02	0.02 - 0.02	0.03 - 0.03
Power input (Heating)	kW	0.02 - 0.02	0.02 - 0.02	0.03 - 0.03
Rated current (Cooling)	A	0.10 - 0.09	0.10 - 0.09	0.15 - 0.14
Rated current (Heating)	A	0.10 - 0.09	0.10 - 0.09	0.15 - 0.14
Sound pressure level	dB(A)	Hi 36 Me 34 Lo 30	Hi 38 Me 36 Lo 33	Hi 44 Me 37 Lo 33
Sound power level	dB(A)	55	57	60
External dimensions (HxLxD)	mm	600x860x238		
External appearance		Fine snow		
Munsell color		(8.0Y9.3 / 0.1) similar		
Net weight	kg	19	20	
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes		
Refrigerant control		Electronic expansion valve		
Air treatment/fan type & quantity		Turbo fan x 1		
Motor	W	40		
Starting method		Direct, in line		
Air flow (standard)	m³h	Hi 540 Me 480 Lo 420		Hi 660 Me 540 Lo 480
Static pressure	Pa	0		
Fresh air inlet		Not possible		
Air filter & quantity		Filter in rete di propilene x 1 (washable)		
Shock & vibration absorption		Rubber vibration absorber (for fan motor)		
Thermal & acoustic insulation		Polyurethane foam		
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-FW-E2 Optional; RC-EX3 Optional		
Ambient temperature control		Electronically-controlled thermostat		
Safety devices		Overvoltage protection for the fan motor		
		Anti-frost protection thermostat		
Refrigerant pipings' diameter	mm	Liquid side Ø6,35 (1/4")		
	(in)	Gas side Ø9.52 (3/8")	Gas side Ø12.7 (1/2")	
Joining method		flare		
Refrigerant		R410A		
Condensate drain		Can be connected with VP16 (I.D. 16.0)		
Piping insulation		Necessary (on both sides. Liquid & Gas)		
Accessories		Assembly kit		

FLOOR RECESSED

WiFi optional

FDFU 28~71 KXE6F

4 capacities
(2.80~7.10 kW)

- Maximum compactness: only 63 cm high and 22.5 cm deep

Model		FDFU 28 KXE6F	FDFU 45 KXE6F	FDFU 56 KXE6F	FDFU 71 KXE6F
Rated capacity (Cooling)	kW	2.80	4.50	5.60	7.10
Rated capacity (Heating)	kW	3.20	5.00	6.30	8.00
Power supply		220-240V~ 50Hz			
Power input (Cooling)	kW	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10
Power input (Heating)	kW	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10	0.09 - 0.10
Rated current (Cooling)	A	0.41 - 0.42	0.41 - 0.42	0.41 - 0.42	0.41 - 0.42
Rated current (Heating)	A	0.41 - 0.42	0.41 - 0.42	0.41 - 0.42	0.41 - 0.42
Sound pressure level	dB(A)	Hi 41 Me 38 Lo 36	Hi 43 Me 41 Lo 40		
Sound power level	dB(A)	58	60		
External dimensions (HxLxD)	mm	630x1077x225			630x1362x225
Net weight	kg	25			32
Refrigerant circuit/Heat exchanger		Finned and internally grooved pipes			
Refrigerant control		Electronic expansion valve			
Air treatment/fan type & quantity		Centrifugal fan x 2			
Motor	W	30	40		
Starting method		Direct, in line			
Air flow (standard)	m3h	Hi 720 Me 660 Lo 600	Hi 840 Me 720 Lo 600		Hi 1080 Me 900 Lo 720
Static pressure	Pa	0			
Fresh air inlet		Not possible			
Air filter & quantity		Filter in rete di propilene x 1 (washable)			
Shock & vibration absorption		Rubber vibration absorber (for fan motor)			
Thermal & acoustic insulation		Polyurethane foam			
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-KIT4-E2 Optional; RC-EX3 Optional			
Ambient temperature control		Electronically-controlled thermostat			
Safety devices		Overvoltage protection for the fan motor			
		Anti-frost protection thermostat			
Refrigerant pipings' diameter	mm	Liquid side Ø6.35 (1/4")			Liquid side Ø9.52 (3/8")
	(in)	Gas side Ø9.52 (3/8")	Gas side Ø12.7 (1/2")		Gas side Ø15.88 (5/8")
Joining method		flare			
Refrigerant		R410A			
Condensate drain		Can be connected with VP20			
Piping insulation		Necessary (on both sides. Liquid & Gas)			
Accessories		Assembly kit			

SAF 150-1000E7

ENTHALPY HEAT RECOVERY UNIT

SAF 150E7
SAF 250E7
SAF 350E7
SAF 500E7
SAF 800E7
SAF 1000E7

During winter, these units recover some of the energy contained in the renewal air expelled from the rooms that would otherwise be dispersed into the atmosphere, using it to preheat the air coming in from outside.

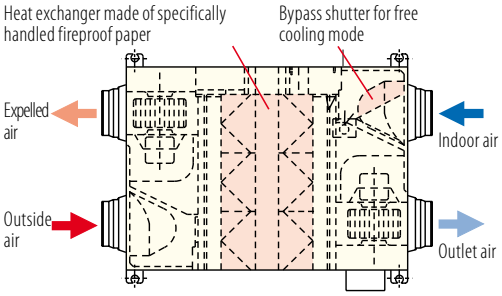
During summer, the exchange is more effective in warmer climates, where the cool air expelled is used to pre-cool the air coming in from outside.

The recovery of dispersed energy reduces the heating requirements of the spaces in a building, ensuring lower emissions and considerable long-term savings on energy consumption and system maintenance.

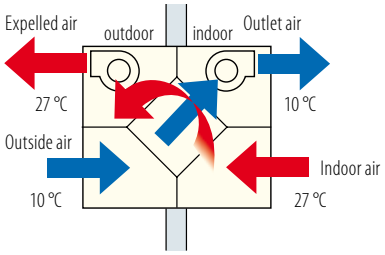
Unit equipped with nylon-polyester fibre filters in class G3.

Wired control included.

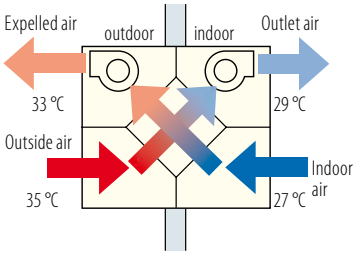
Structure (SAF 800E7)



Operating principle in free cooling mode



Operating principle in heat recovery mode



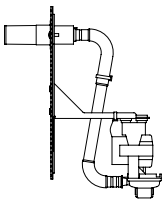
Warning: the drawings above represent only the operation principles; they do not represent the real position of the air inlets. For the correct position, refer to the drawing on the left.

Model			SAF 150E7	SAF 250E7	SAF 350E7	SAF 500E7	SAF 800E7	SAF 1000E7
Type			Enthalpy heat recovery unit					
Control (included)			Wired control					
Enthalpy exchange efficiency[1]	Cooling	%	63	63	66	62	65	65
	Heating		70	70	69	67	71	71
Heat exchange efficiency		%	75	75	75	75	75	75
Electrical data								
Power supply		Ph-V-Hz	1-220~240-50					
Rated power		W	92~107	108~123	178~185	204~225	360~378	416~432
Rated absorbed current		A	0.42~0.45	0.49~0.51	0.77~0.81	0.93~0.94	1.58~1.64	1.80~1.89
Product specifications								
External dimensions	LxDxH	mm	970x467x270	882x599x270	1050x804x317	1090x904x317	1322x884x388	1322x1134x388
Net weight		Kg	25	29	49	57	71	83
Sound pressure level	Max	dB(A)	29	31.5	33	37.5	37.5	38.5
Volume of air treated		m^3/h	150	250	350	500	800	1000
Fan static pressure	Max	Pa	80	105	140	120	140	105
Ducting flange		mm	ø98	ø144	ø144	ø194	ø242	ø242
Operating range	Max UR 85%	°C	-10~40					
Specific energy consumption[2]	SEC	kWh/m^2 y	-28.6	-	-	-	-	-
SEC class[2]			B	-	-	-	-	-

1 Values related to the maximum speed of the 3 levels settable by wired remote control. 2 Mandatory data for residential ventilation units (RVU) only.
Reference standards:
EU Ecodesign Directive 1253/2014 for non-residential ventilation units (NRVU) and residential ventilation (RVU).
EU Energy Labelling 1254/2014 Residential Ventilation Unit (RVU).

POST-TREATMENT MODULAR UNIT

SAF DX250E6
SAF DX350E6
SAF DX500E6
SAF DX800E6
SAF DX1000E6



DXA-DU-E: condensate drain kit
up to 60 cm (optional)

The simple and flexible solution for increasing comfort in buildings, with high energy performance

The SAF DX units, available in 5 power ratings, is a device designed to increase the comfort capacity of KXZ systems located in buildings, with their high quality profile in terms of energy.

Extremely flexible in that it operates independently from the regenerator, it is able to optimise temperature of the primary air taken in by the SAF regenerators or by similar systems installed in the building. Its compact size and installation separate from the fan unit, solve numerous installation problems; the lack of moving parts makes it possible to install the unit in a wider range of locations and reduces noise to a minimum.

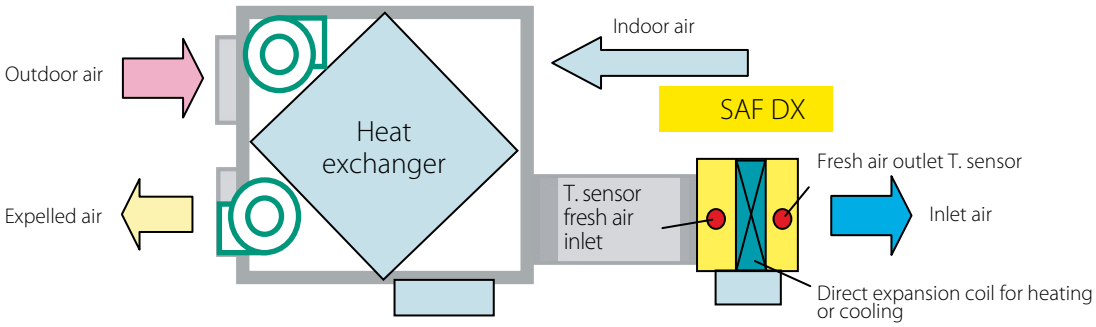
The SAF DX post-treatment is not intended to replace an indoor unit.

- Can be combined with all indoor and outdoor units in the KXZ range*.
- Can be connected to the Superlink network and all the available centralised controls.
- It is possible to use all the KXZ series local controls (to integrate into the system seamlessly and easily).
- The condensate drain pump is available as an optional.
- It allows you to control the inlet temperature or outlet temperature alternatively**.

Note

If using the SAF DX, the load index available for the outdoor unit is reduced to 100% of the rated capacity.

The available options vary depending on configurations.



Unit model		SAF DX250E6	SAF DX350E6	SAF DX500E6	SAF DX800E6	SAF DX1000E6
Rated capacity (Cooling)*	kW	2.00	2.80	3.60	5.60	6.30
Rated capacity (Heating)**	kW	1.80	2.20	2.80	4.50	5.60
Power supply		220-240V~ 50Hz				
Power input (Cooling)	W	7.20				
Power input (Heating)	W	7.20				
Rated current (Cooling)	A	0.05				
Rated current (Heating)	A	0.05				
External dimensions (H x L x D)	mm	315x452x422		315x537x422	315x682x422	315x822x422
Net weight	kg	12.3		13.6	16.1	18.4
Air flow (standard)	m^3/h	250	350	500	800	1000
Static pressure	Pa	38	66			
Control devices		Wired control RC-E5 Optional; RCH-E3 Optional; RCN-KIT4-E2 Optional				
Refrigerant pipings' diameter	mm (in)	Liquid side: ø 6.35 (1/4")		Liquid side: ø 6.35 (1/4")		Liquid side: ø 9.52 (3/8")
		Gas side: ø 9.52 (3/8")		Gas side: ø 12.7 (1/2")		Gas side: ø 15.88 (5/8")

	Inlet air temperature/ventilation		Outdoor temperature		Standard
Mode	DB	WB	DB	WB	
Cooling*	27° C	19° C	35° C	24° C	ISO- T1
Heating**	20° C		7° C	6° C	

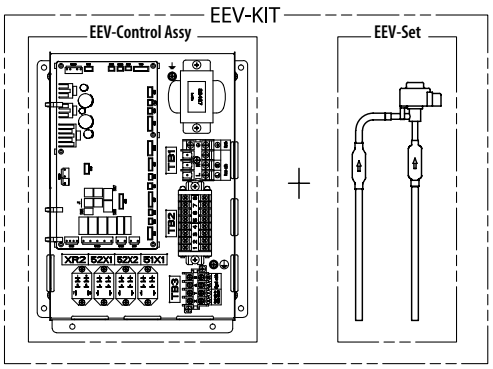
* Measured under the conditions specified in the table.

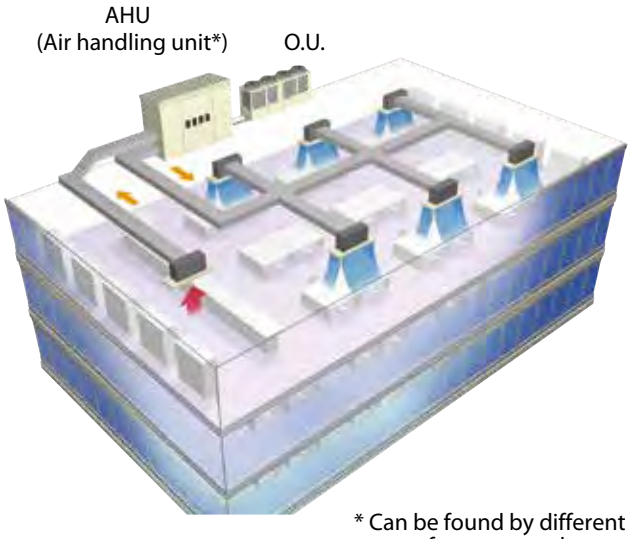
** ISO-T1-compliant test.

CONTROL SYSTEM FOR AHU EEV-KIT

EEV-KIT is a control kit for any type of AHU and/or fan coil with direct expansion coil that can be found on the market, which permits connection with KXZ O.U.

EEV-KIT consists of an electronic control system and an electronic expansion valve for refrigerant flow control.





* Can be found by different manufacturers on the market

APPLICATIONS

Type of system	EEV-KIT	
	EEVKIT6-E-M	EEVKIT6-E-C
Single	-	1 or more boxes in parallel*
Multiple	1 box (Master)	Multiple boxes (Slave)

Model	EEV6-71-E	EEV6-160-E	EEV6-280-E
Capacity (kW)	2.20~7.10	9.00~16.00	22.40~28.00

* Can connect to a single cooling system. In the case of more than one cooling system, make sure to use EEV-KIT control ASSY for multiple systems.

SYSTEM CONFIGURATION

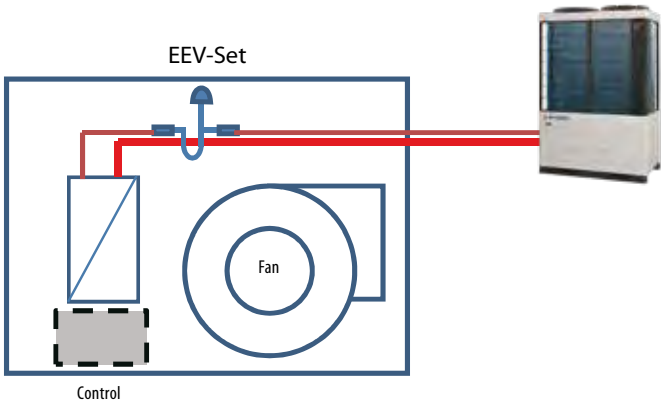
- In the case of a single cooling system, you must use one EEVKIT6-E-C control for each expansion valve up to a maximum of 32.
- In the case of a multiple cooling system, you must use one EEVKIT6-E-M 1 master control + no. EEVKIT6-E-C controls, up to a maximum of 32.
- EEVKIT6-E-C control is common use for single and multiple systems.

SINGLE COOLING SYSTEM

A system composed of several outdoor units with a single cooling circuit (see the two examples below). In the figure to the left, system A uses one single EEV-KIT. In the figure to the right, system B uses more than one EEV-KIT.

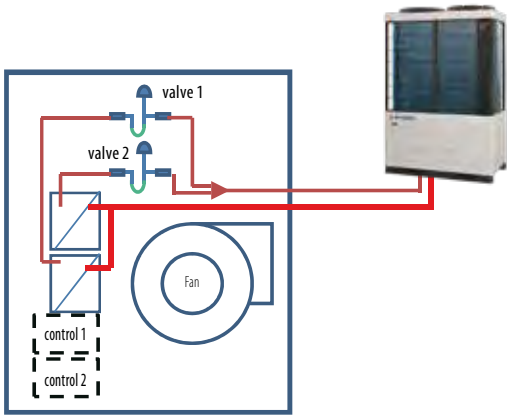
SYSTEM A

This system only has an EEV-KIT installed on an internal coil consisting of a single exchanger. This type of system can be applied to internal coils with maximum power 10HP (28 kW).



SYSTEM B

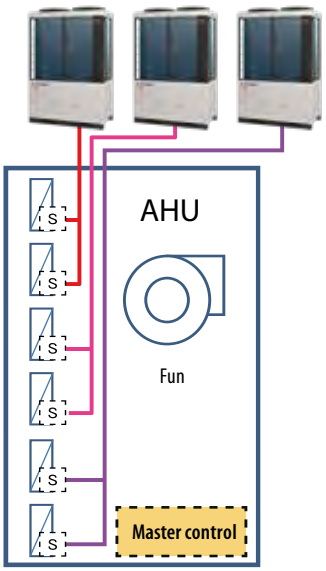
It is a system that has more than one EEV-KIT installed in an internal coil consisting of multiple exchangers in a single cooling circuit. This system can reach a maximum power of 60HP (KXZ).



CONTROL SYSTEM FOR AHU EEV-KIT

This system is composed of an air handling unit with the following characteristics:

1. Multiple cooling circuits;
2. Presence of a Master control system that controls the whole system.

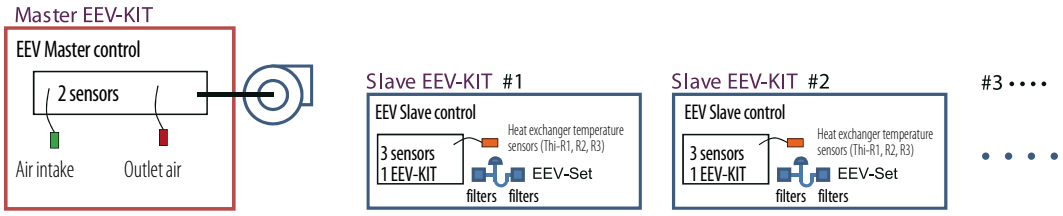


ADVANTAGES

- Possibility of extending the system, compared to the single system, up to a power of 896 kW (indoor unit: composed of 32 circuits for 28 kW).
- Possibility of remote control through a special connector.
- Possibility of controlling steps.

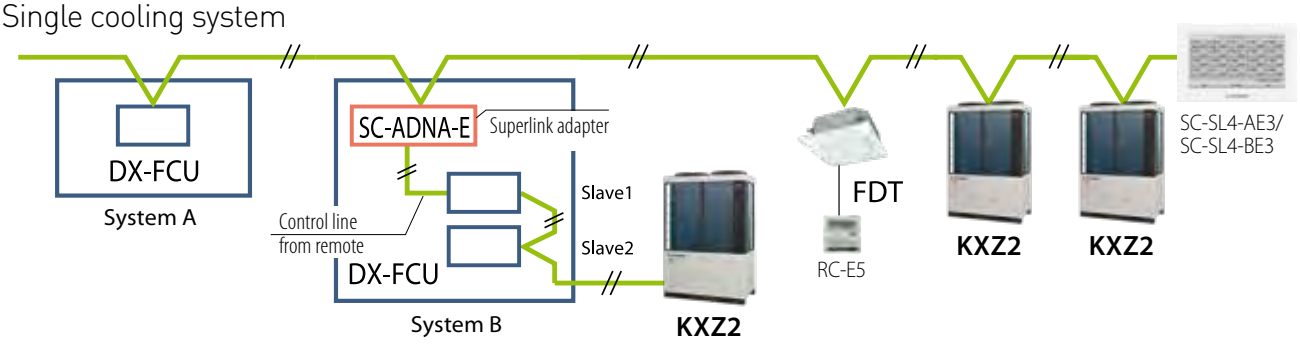
PARTS TO BE ADDED TO THE SINGLE COOLING SYSTEM

- A Master control system.
- Slave control system and the expansion valve are the same that are used.

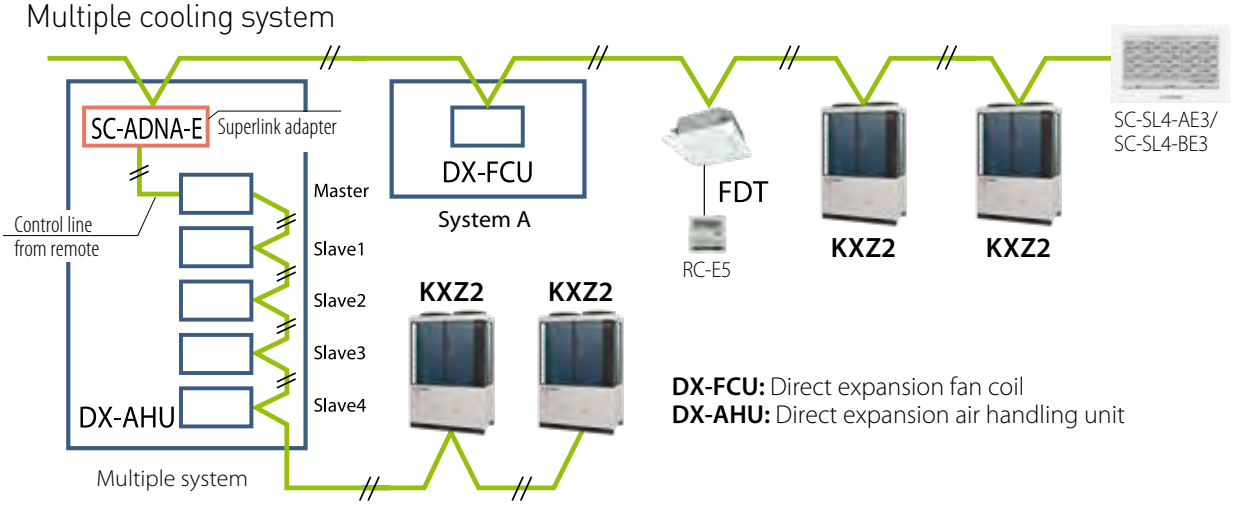


SUPERLINK II CONNECTION

Single cooling system



Multiple cooling system



DX-FCU: Direct expansion fan coil
DX-AHU: Direct expansion air handling unit

SOLUTIONS FOR DHW & HEATING

SOLUTIONS FOR DHW & HEATING

190 PRODUCTS LINE UP

196 GWP & REFRIGERANTS

197 HYDROLUTION, THE SYSTEM FOR HEATING, COOLING AND DHW PRODUCTION

231 HYDROLUTION PRO, THE SYSTEM FOR HEATING AND COOLING LARGE BUILDINGS

239 KXZ2 HEATING TO HEAT RESIDENTIAL AND COMMERCIAL BUILDINGS

245 Q-TON DHW FROM FREE NATURAL ENERGY

MITSUBISHI HEAVY INDUSTRIES

LINEUP

HYDROLUTION
EZY IDROSPLIT R290

			NEW	NEW	NEW	NEW
Outdoor units kW	**6.00**	**8.00**	**10.00**	**10.00**	**14.00**	**14.00**
R290 NEW REFRIGERANT	1-Phase	1-Phase	1-Phase	3-Phase	1-Phase	3-Phase
						
	FDCM 60 VNX-P	FDCM 71 VNX-P	FDCM 100 VNX-P	FDCM 100 VSX-P	FDCM 140 VNX-P	FDCM 140 VSX-P
Indoor units						
NEW Hydrobox*  **HBM140** Controller included Pump included Idrosplit (R290 only in the outdoor unit)	✓	✓	✓	✓	✓	✓
NEW All in One*  **HMM100** Controller included Pump included 180L DHW tank included Idrosplit (R290 only in the outdoor unit)	✓	✓	✓	✓	✓	✓

*** The HBM (Hydrobox) and HMM (All in One) indoor units can be connected to both Idrosplit systems: R290 and R32.**

HYDROLUTION
EZY IDROSPLIT R32

Outdoor units kW	10.00	16.00
R32	1-Phase	1-Phase
	 FDCM 100 VNX-W	 FDCM 140 VNX-W
Indoor units		
Hydrobox*		
NEW  **HBM140** Controller included Pump included Idrosplit (R32 only in the outdoor unit)	✓	✓
All in One*		
NEW  **HMM100** Controller included Pump included 180L DHW tank included Idrosplit (R32 only in the outdoor unit	✓	

HYDROLUTION
EZY FLEXIBLE R32

Outdoor units kW	16.00	
R32	1-Phase	**Modularity up to 8 units**
	 FDCM 140 VNX-W	

LINEUP

HYDROLUTION R32

Outdoor units kW	6.00	8.00
R32	1-Phase	1-Phase
	 FDCW 60 VNX-W	 FDCW 71 VNX-W
Indoor units		
Hydrobox  **HMS60-W** Controller included Pump included	✓	
Hydrobox  **HMS100-W** Controller included Pump included		✓
All in One  **HMA60-W** Controller included Pump included 180L DHW tank included	✓	
All in One  **HMA100-W** Controller included Pump included 180L DHW tank included		✓

LINEUP

HYDROLUTION PRO R32

50 kW models	Versions	Equipment
	MCUS 5001 VHE-W	Without pump
	MCUS 5001 VHE-W1	Integrated LP pump
	MCUS 5001 VHE-W1A	Integrated LP pump + buffer tank
	MCUS 5001 VHE-W2	Integrated HP pump
	MCUS 5001 VHE-W2A	Integrated HP pump + buffer tank

KXZ2 HEATING

Outdoor units
R410A
FDC 280-1680 KXZE2
FDC 560-1120 KXZXE2

Indoor units		
 HMU 140 KXZE1	Hydrobox connectable with KX	✓
 HMU 280 KXZE1	Hydrobox connectable with KX	✓

MITSUBISHI HEAVY INDUSTRIES

Q-TON FOR HIGH-TEMPERATURE DHW - R744

ESA30EH2-25

30 kW

Modularity up to 16 units

Tank	
 **ESA 500 ST-CHW** Stratified tank	✓
 **ESA 800 ST-CHW** Stratified tank	✓
 **ESA 1500 ST-CHW** Stratified tank	✓

LOW ENVIRONMENTAL IMPACT GWP & REFRIGERANTS

Talking about low environmental impact means valorising refrigerant gases on the basis of their GWP. The GWP value indicates the potential to affect global warming and the accumulation of carbon dioxide.

It is essential to reduce the emission of greenhouse gases: the higher the GWP value of the refrigerant gases entering the atmosphere, the more rapidly and drastically the average temperatures of the globe increase and the climate changes. Appliances with GWP = 1 refrigerants are MHI's technological arrival point in low-temperature heating.

GWP 0,02 R290 REFRIGERANT

R290 gas has a GWP of 0.02 and a low environmental impact. It is a natural hydrocarbon, also known as propane, widely used as a refrigerant in air conditioning systems and heat pumps.

Among its main advantages are energy efficiency and compliance with environmental standards, all of which contribute to the sustainability of the installed system.

Its high thermal efficiency makes it an environmentally friendly choice for heating and domestic hot water systems.

ADVANTAGES OF 7290 GAS

- It's environmentally friendly;
- it's non-toxic;
- it's flammable;
- it's non-harmful and poses no risk to the ozone layer;
- it's highly efficient;
- it's not subject to F-Gas bans.

GWP 1 R744 REFRIGERANT

R744 gas (CO2) has a GWP of 1 and is a natural substance that can be used as a fluid in different heating applications thanks to its high heat exchange properties.

It has particular environmentally friendly characteristics, such as non-flammability and non-harmfulness for the ozone layer.

Using CO2 as a refrigerant significantly reduces the amount of greenhouse gas emissions in the atmosphere, which are the origin of climate change.

ADVANTAGES OF R744 GAS

- it is ecological;
- **it is not flammable**;
- it is not toxic;
- it is not harmful and does not present risks for ozone;
- it is very efficient;
- it has no limitations of use worldwide.

GWP 675 R32 REFRIGERANT

The specific name of R32 gas is difluoromethane. It is currently present among the fluorinated gases with a low GWP value, which can be used in air conditioners with multiple uses.

The most significant aspect of R32 gas is its GWP value, equal to 675, which allows the creation of systems containing up to 7.4 kg of gas without exceeding the threshold which requires leak control, equipment register keeping , and annual declaration to ISPRA, a threshold which for an R410A gas is already exceeded by 2.4 kg of gas.

ADVANTAGES OF R32 GAS

- it is ecological;
- it is not toxic;
- it is slightly flammable;
- it is not harmful and does not present risks for ozone;
- it is very efficient.

GWP 2088 R410A REFRIGERANT

R410A gas is a refrigerant fluid which is mainly used for air conditioners and which is made up of a mixture of two fluorinated hydrocarbons: R32 and R125 in equal parts. Not containing chlorine atoms, this gas cannot damage the earth's ozone layer and therefore has a reduced impact on our planet's environment (ODP=0).

R410A is therefore a refrigerant gas that guarantees excellent performance and high efficiency, but at the same time a low environmental impact.

ADVANTAGES OF R410A GAS

- it is ecological;
- **it is not flammable**;
- it is not harmful and does not present risks for ozone;
- it is very efficient.

HYDROLUTION

HYDROLUTION EZY IDROSPLIT WITH PRODUCTION OF DOMESTIC HOT WATER

EZY IDROSPLIT HYDROBOX, ALL IN ONE R290 E R32, EZY FLEXIBLE

NEW

6 kW 8 kW
10 kW 14 kW NEW

Idrosplit Hydrobox R290

Idrosplit Hydrobox for heating and cooling. Or, combined with one or more buffer tanks to also produce DHW. Supply-water temperature in heating and DHW up to 75°C.

6 kW 8 kW
10 kW 14 kW NEW

Idrosplit All in One R290

Idrosplit All in One for heating, cooling and DHW production (integrated 180-litre tank). Supply-water temperature in heating and DHW up to 75°C. No additional components to install other than the indoor module.

NEW

10 kW 16 kW

Idrosplit Hydrobox R32

Idrosplit Hydrobox for heating and cooling. Or, combined with one or more buffer tanks to also produce DHW.

10 kW

Idrosplit All in One R32

Idrosplit All in One for heating, cooling and DHW production (10 kW, integrated 180-litre tank). No additional components to install other than the indoor module.

16 kW

Flexible R32

Monobloc unit that can be installed as a single unit or in cascade up to 8 modules, with dedicated on-site systems.

Gas Free

All units are gas free: the refrigeration circuit is in the external unit, no refrigerant in the internal unit and inside the rooms, only water.

MITSUBISHI HEAVY INDUSTRIES

EZY R290

The EZY air-to-water heat pump absorbs heat from outdoor air and transfers it indoors for space heating and hot water production. It is an energy-efficient and eco-friendly solution that uses renewable energy to reduce electricity consumption.

75°C

EZY can produce hot water with an outlet temperature up to 75°C, guaranteed down to -25°C outdoor temperature

-25°C

Operating range: in heating from -25°C to 43°C; in cooling from 15°C to 45°C

A+++

Energy class at 35°C, the temperature suitable for underfloor heating

A++

Energy class at 55°C, the temperature suitable for heating via fan-coils

With the shift from R32 to R290, in addition to higher supply temperatures, there has been an overall improvement in performance and efficiency.

+12,4%

Example: 10 kW size, **COP A7°C/W35°C**

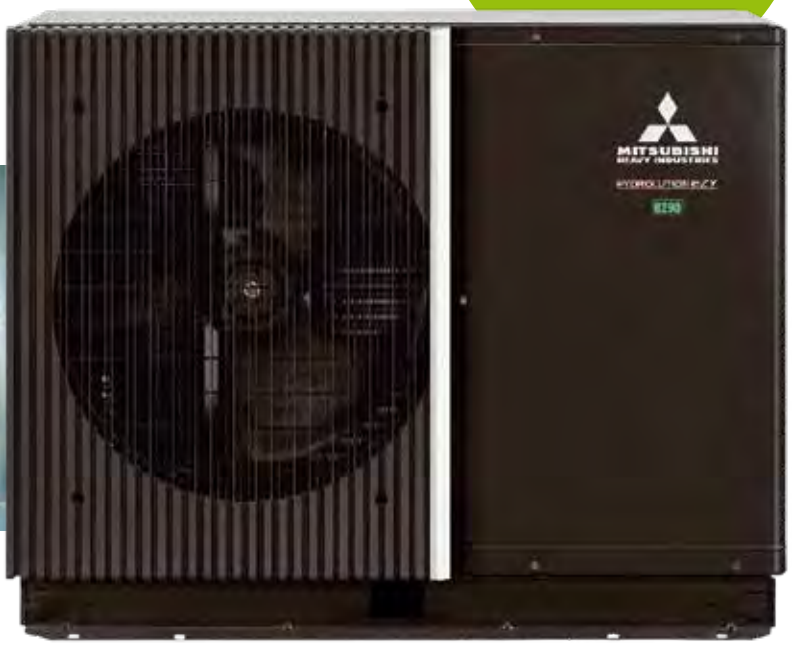
Maximum quietness

In silent mode, the minimum sound pressure level is just 36 dB(A) for the 6.0 kW size and 37 dB(A) for the 8.0 kW size

OUTDOOR UNITS

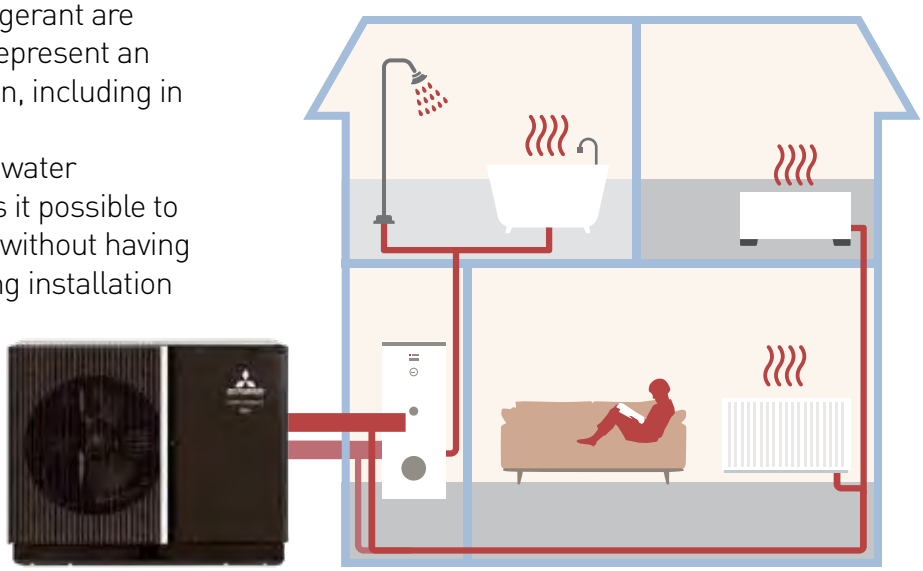
- FDCM 60 VNX-P
- FDCM 71 VNX-P
- FDCM 100 VN(S)X-P
- FDCM 140 VN(S)X-P

R290
NEW REFRIGERANT



FOR RADIATOR SYSTEMS

EZY heat pumps with R290 refrigerant are compatible with radiators and represent an efficient and sustainable solution, including in refurbishment projects.
The ability to reach high supply-water temperatures up to 75°C makes it possible to adapt them to existing systems without having to replace the radiators, reducing installation time and costs



R290 heat pumps can produce hot water at very high temperatures, ideal for radiators and therefore for installation on existing systems.

TECHNOLOGY AND DESIGN

The Hydrolution EZY series features an elegant raven-black exterior that integrates perfectly with the surrounding environment.

Its design blends harmoniously with contemporary urban spaces and a variety of settings, while also standing out with a bold, high-impact presence.

BEST INSTALLATION POSSIBILITIES

For safe installation of an R290 heat pump, a specific 'clearance zone' with defined safety characteristics must be taken into account. MHI has conducted accurate tests in the event of a leak; the result is the possibility to reduce the baseline prescription that, in the absence of tests, everyone must follow. This leads to the **best installation possibilities on the market**.

CLEARANCE ZONE

To install an R290 heat pump, it is essential to respect a specific clearance zone to ensure safety and efficiency, including proper ventilation and the absence of ignition sources or openings such as doors and windows..

SAFE TO USE

The refrigerant is fully contained within the outdoor unit, ensuring safe use of the A3 refrigerant.

EASY TO INSTALL

Idrosplit unit with minimal connections and a less complex installation process.

EZY INSTALLATION ADVANTAGES

As an Idrosplit unit, EZY requires a minimal number of hydronic and electrical connections.

Compared to split systems, it offers a Plug & Play installation process in retrofit applications.

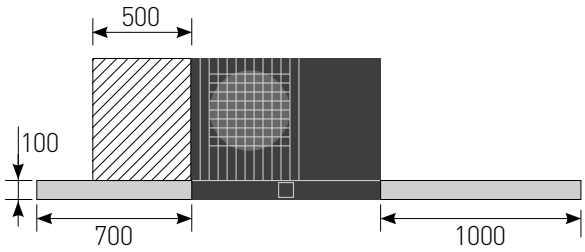
BEST IN CLASS

Mitsubishi Heavy Industries' research centre has carried out **studies and real-life simulations** on the dispersion of R290 gas in the event of a leak, **establishing clearance zones precisely** based on the measured data. This results in reduced minimum distances compared to other competitors in all possible installation Types.

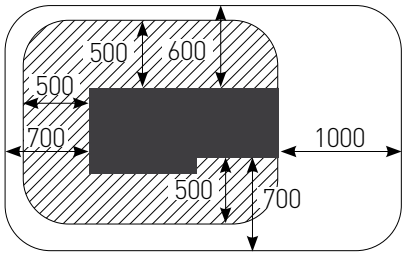
Maximum flexibility, minimal restriction: EZY Idrosplit is the R290 heat pump with the widest installation possibilities on the market.

INSTALLATION ON A FLAT ROOF AND IN OPEN SPACE

FRONT VIEW

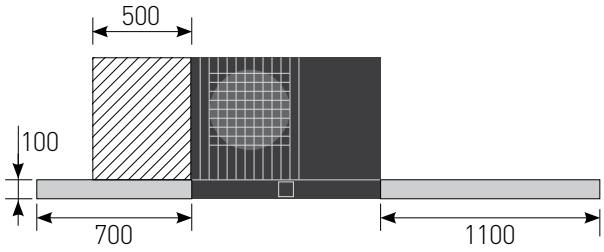


TOP VIEW

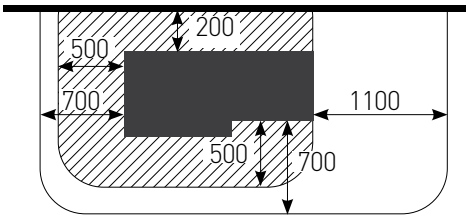


GROUND INSTALLATION IN FRONT OF A WALL

FRONT VIEW



TOP VIEW



100 mm from the base of the unit

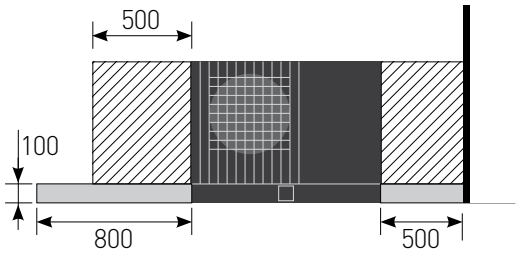
Unit height

The **clearance zones shown above apply exclusively to units FDCM 60 VNX-P and FDCM 71 VNX-P**.
For all other models, consult the relevant manuals. Always refer to the specific technical documentation for each unit for further installation guidance.

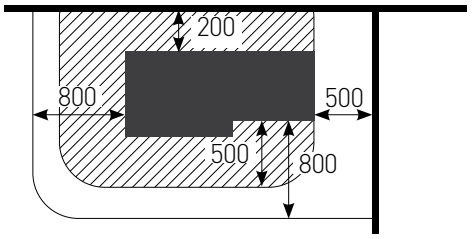
MITSUBISHI HEAVY INDUSTRIES

INSTALLATION IN A WALL CORNER - RIGHT SIDE

FRONT VIEW

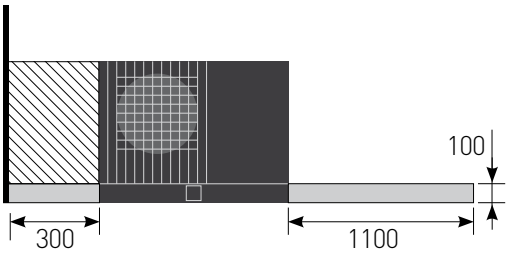


TOP VIEW

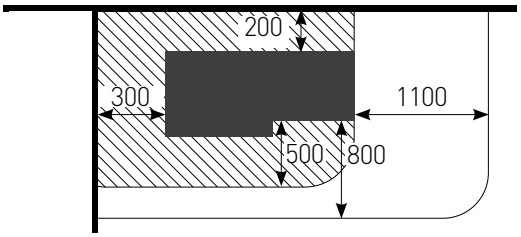


INSTALLATION IN A WALL CORNER - LEFT SIDE

FRONT VIEW

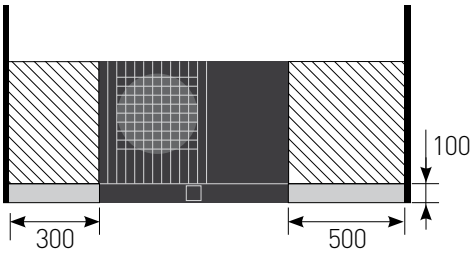


TOP VIEW

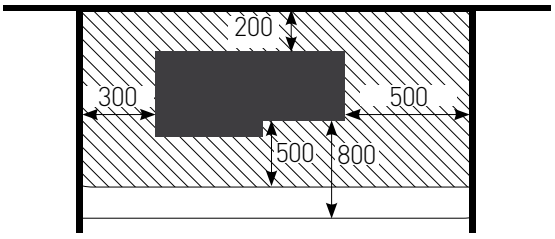


INSTALLATION WITH WALLS ON THE RIGHT, LEFT AND BEHIND

FRONT VIEW



TOP VIEW



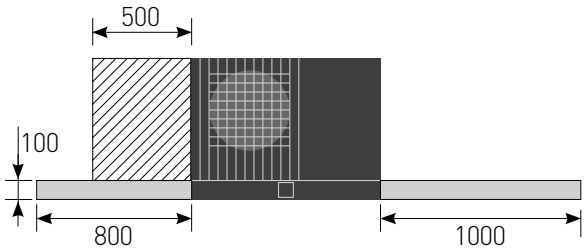
100 mm from the base of the unit

Unit height

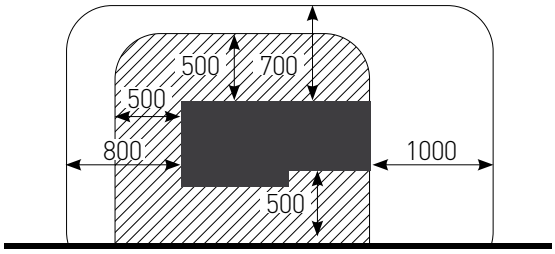
The **clearance zones shown above apply exclusively to units FDCM 60 VNX-P and FDCM 71 VNX-P**.
For all other models, consult the relevant manuals. Always refer to the specific technical documentation for each unit for further installation guidance.

INSTALLATION IN FRONT OF A BUILDING WALL

FRONT VIEW

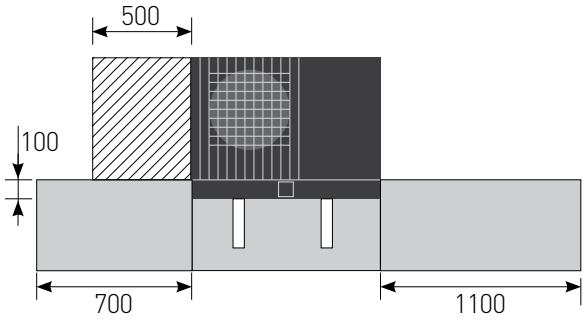


TOP VIEW

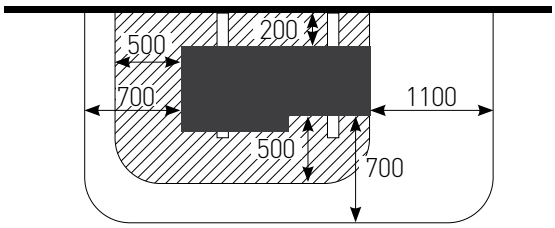


INSTALLATION RAISED FROM THE GROUND

FRONT VIEW

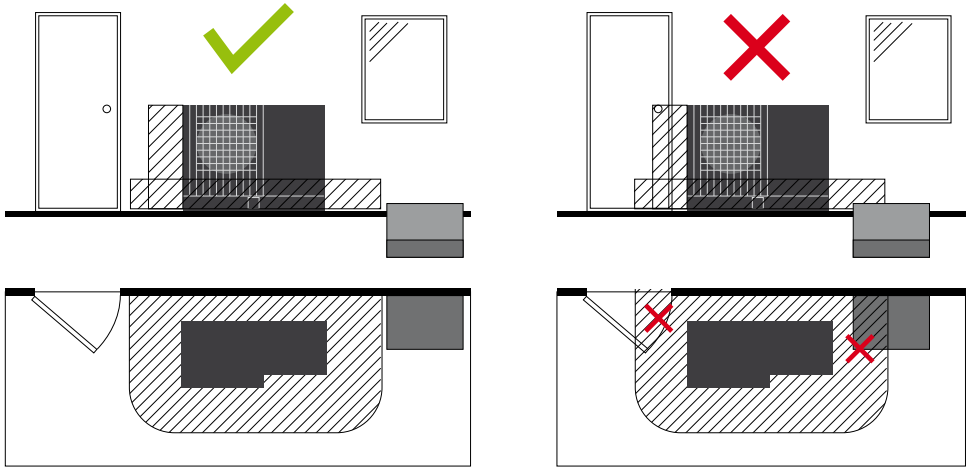


TOP VIEW



RESPECT OPENINGS

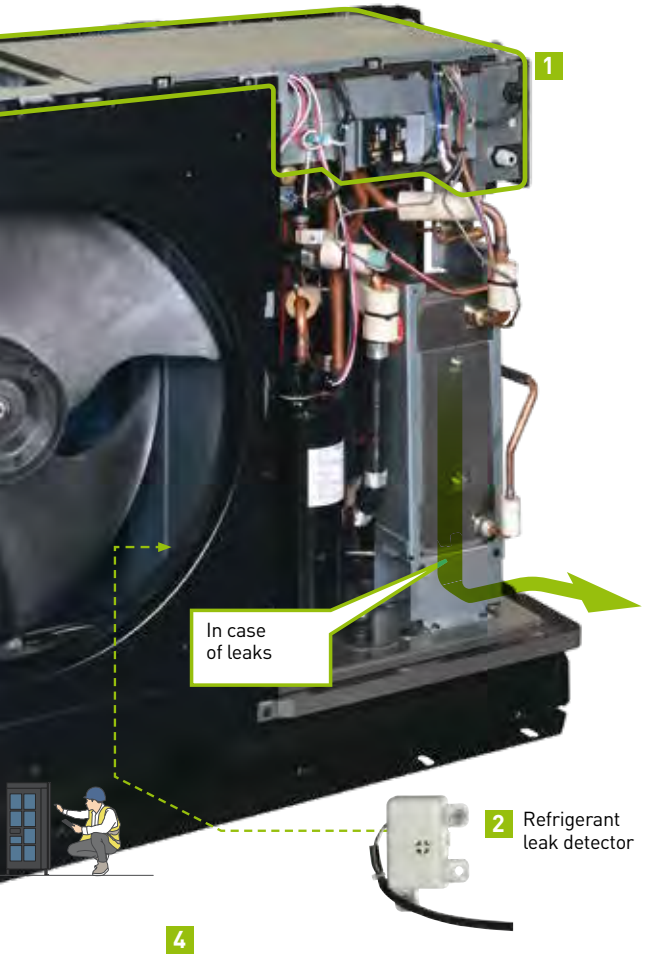
In the protection zone there must be no building openings: windows, doors, ducts/shafts, cellar entrances, escape hatches or ventilation openings.



The **clearance zones shown above apply exclusively to units FDCM 60 VNX-P and FDCM 71 VNX-P**.
For all other models, consult the relevant manuals. Always refer to the specific technical documentation for each unit for further installation guidance.

SAFETY SOLUTIONS

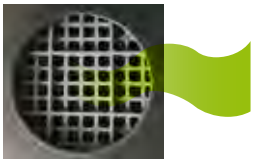
Hydrolution EZY is equipped with robust multi-level safety measures to prevent potential failures, even in the event of refrigerant leakage from the circuit. This ensures customer safety while making full use of the performance potential of A3 refrigerants.



FEATURES

1. **Non-flammable top enclosure**: the PCB and terminal block are housed in a non-flammable enclosure.
2. **Refrigerant leak detector**: in the event of a leak, the unit automatically shuts down and triggers an alarm on the indoor controller. The fan also activates to disperse the leaked refrigerant.
3. **Leak check and lower vent hole**: a vent hole at the bottom ensures easy removal of any refrigerant leakage and allows easy verification of leaks through the hole.
4. **External DIP switch**: there is no need to touch or access the refrigerant circuit and electrical box to change settings during installation or maintenance.
5. **Gas separator with safety release valve**: prevents refrigerant from reaching the hydronic circuit.

3



5

4

Installation must be carried out only by certified personnel.

PROTECTIVE CLOTHING, EQUIPMENT AND TOOLS

Equipment
Safety gloves
Antistatic footwear
Antistatic clothing
Safety glasses or visor

Fire and explosion prevention
Approved extinguisher
Prohibition of possible ignition sources within a 3 m radius of the machine during installation and maintenance
ATEX explosimeter
ATEX leak detector
Brushless screwdriver

EFFICIENCY AND HIGH CAPACITY

EZY R290 is the heat pump that offers the best performance on the market in terms of output and average efficiency in heating and cooling, with the **unique feature of producing 75°C hot water down to -25°C outdoor temperature**.

SEASONAL EFFICIENCY

4.75 SCOP
At 35°C (6 kW size)

5.00 SCOP
At 35°C (10 kW size)

3.61 SCOP
At 55°C (6 and 8 kW sizes)

3.71 SCOP
At 55°C (10 kW size)

OUTDOOR UNITS - LOW-TEMPERATURE HEATING

5.14 COP
In heating at 35°C
(A7/W35, 6 kW size)

4.49 COP
In heating at 35°C
(A7/W35, 8 kW size)

OUTDOOR UNITS - COOLING

7.5 kW
Cooling capacity
(A35/W18, 6 kW size)

9 kW
Cooling capacity
(A35/W18, 8 kW size)

EZY IDROSPLIT HYDROBOX CONFIGURATION

In Hydrobox mode, EZY Idrosplit can be used for heating and cooling only, or combined with one or more buffer tanks to also produce domestic hot water.

GWP 0,02

R290

6, 8, 10, 14 kW models

HYDROBOX COMBINATIONS

The Hydrobox combination provides space heating and cooling, with the option to add domestic hot water production.

EZY Idrosplit Hydrobox consists of an outdoor unit and a hydronic module (HBM) with integrated control unit. Inside the HBM: circulation pump, expansion vessel, flow meter, air vent valve and a pressure gauge + relief valve. By adding further accessories, the installation becomes even more complete and adapts to every heating and cooling requirement.

Hydrobox solution has the following advantages:

- **HEATING- AND COOLING-ONLY OPTION:** the flexibility of this solution makes it possible to meet the end user's needs without purchasing/ installing components that are not necessary for the purpose;
- **DHW OPTION**, available by connecting a DHW tank to the EZY Idrosplit Hydrobox;
- **FLEXIBLE INSTALLATION OF UNITS**, you can combine the components according to your needs;
- **CAPACITIES AVAILABLE**
  - 6 kW - R290
  - 8 kW - R290
  - 10 kW - R290
  - 14 kW - R290

NEW

R290 NEW REFRIGERANT

EZY IDROSPLIT HYDROBOX CONFIGURATION

In Hydrobox mode, EZY Idrosplit can be used for heating and cooling only, or combined with one or more buffer tanks to also produce domestic hot water.

GWP 675

R32

10 and 16 kW models

NEW

HYDROBOX COMBINATIONS

The Hydrobox combination provides space heating and cooling, with the option to add domestic hot water production.

EZY Idrosplit Hydrobox consists of an outdoor unit and a hydronic module (HBM) with integrated control unit. Inside the HBM: circulation pump, expansion vessel, flow meter, air vent valve and a pressure gauge + relief valve. By adding further accessories, the installation becomes even more complete and adapts to every heating and cooling requirement.

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- **DHW OPTION**, available by connecting a DHW tank to the EZY Idrosplit Hydrobox;
- **FLEXIBLE INSTALLATION OF UNITS**, you can combine the components according to your needs;
- **CAPACITIES AVAILABLE**
  - **10 kW** - R32
  - **16 kW** - R32

R32

HYDROLUTION EZY SYSTEM - TECHNICAL DATA

EZY IDROSPLIT HYDROBOX R290

Outdoor unit model					FDCM 60VNX-P	FDCM 71VNX-P	FDCM 100VNX-P	FDCM 100VSX-P	FDCM 140VNX-P	FDCM 140VSX-P
Heating	Rated power	A7//W35		kW	5.50 (0.95~8.00)	8.00 (1.00~10.00)	10.00 (1.40~15)*	10.00 (1.40~15)*	11.00 (1.40~18.00)*	11.00 (1.40~18.00)*
	Power input				1.07	1.85	2.13*	2.13*	2.32*	2.32*
	Performance coefficient			COP	5.14	4.49	4.70*	4.70*	4.75*	4.75*
	Rated power	A7/W45		kW	5.50 (0.92~8.00)	8.00 (0.97~10.00)	10.20 (1.30~14.70)*	10.20 (1.30~14.70)*	12.50 (1.30~17.90)*	12.50 (1.30~17.90)*
	Power input				1.46	2.11	2.76*	2.76*	3.48*	3.48*
	Performance coefficient			COP	3.77	3.79	3.70*	3.70*	3.60*	3.60*
Cooling	Rated power	A35//W18		kW	7.50 (1.93~8.00)	9.00 (1.93~10.00)	13.00 (3.30~14.80)*	13.00 (3.30~14.80)*	14.60 (3.40~15.80)*	14.60 (3.40~15.80)*
	Power input				2.05	2.20	3.60*	3.60*	4.04*	4.04*
	Energy efficiency			EER	3.66	4.09	3.61*	3.61*	3.62*	3.62*
	Rated power	A35//W7		kW	5.30 (1.32~6.30)	7.00 (1.32~7.50)	9.00 (2.20~12.00)*	9.00 (2.20~12.00)*	10.30 (2.30~12.60)*	10.30 (2.30~12.60)*
	Power input				1.75	2.25	3.00*	3.00*	3.44*	3.44*
	Energy efficiency			EER	3.03	3.11	3.00*	3.00*	3.00*	3.00*
Seasonal data (Heating)	Prated @ -10°C	35/55		kW	5/5	7/7				
	Seasonal performance coefficient			SCOP	4.75/3.61	4.61/3.61	5.00/3.71*	5.00/3.71*	4.68/3.60*	4.68/3.60*
	Seasonal energy efficiency (ns)			%	187/141	181/141	197/145.4*	197/145.4*	184.2/141*	184.2/141*
	Energy efficiency class			-	A+++/A++	A+++/A++	A+++/A++*	A+++/A++*	A+++/A++*	A+++/A++*
	Annual energy consumption			kWh/y	2135/2695	3055/3841				
Operating range	Outdoor air temperature	Heating & DHW		°C	-25~43					
		Cooling			15~45					
Refrigerant circuit data	Refrigerant Type (GWP)				R290 (0.02)					
	Q.ty of precharge (tons CO2)			kg (t)	0.65 (0)	0.85 (0)	1.3 (0)	1.3 (0)	1.6 (0)	1.6 (0)
	Refrigerant control system				Electronic expansion valve					
	Compressor			Type	Twin rotary - DC Inverter					
Hydraulic data	Water/freon heat exchanger			Type	Braze-welded plates					
	Water connections	Size		inch	1"M (DN25)	1"M (DN25)	1"M (DN25)	1"M (DN25)	1"M (DN25)	1"M (DN25)
	Operating pressure (system)	Max		bar	3	3	3	3	3	3
Electrical data	Power supply			Ph-V-Hz	1ph-230V-50Hz			3ph-400V-50Hz	1ph-230V-50Hz	3ph-400V-50Hz
	Maximum current			A	13.00	16.00	21.00	9.00	28.00	11.00
	Power cable (recommended)			Type	3x4 mm²	3x4 mm²	3x6 mm²	5x2.5 mm²	3x6 mm²	5x2.5 mm²
Product specifications	Fan	Type		q.ty	DC Inverter					
		Air flow		m³/h	2520	3000	3300	3300	3300	3300
	Sound power level (max)			dB(A)	58	62	66	66	66	66
	Sound pressure level (a 1 m)			dB(A)	41	49	50	50	51	51
	Dimensions	LxDxH		mm	1160x440x916		1160x440x1120			
	Weight	Net		kg	82	90	122	127	132	137
Indoor unit model					**HBM140**	**HBM140**	**HBM140**	**HBM140**	**HBM140**	**HBM140**
Operating range	Delivery water temperature	Heating & DHW		°C	25~75 (85 with heater)					
		Cooling			5~25					
Hydraulic data	Pompa di circolazione				Included					
	Attacchi acqua per U.E.	Dimensions		inch	1" threaded					
	Expansion vessel	Volume		L	10					
		Precharge		bar	0.5					
Electrical data	Power supply			Ph-V-Hz	1ph-230V-50Hz					
	Power input (Max)			A	2.00					
	Power cable (recommended)			Type	3x2.5 mm²					
Product specifications	Sound power level			dB(A)	-					
	Dimensions	LxDxH		mm	440x380x800					
	Weight	Net		kg	31					
	Control (included)				On board machine					
	Remote control via Modbus (optional)				MODBUS40M					

The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

* MHI also reserves the right, during commercialisation, to make minor changes to products in order to improve the product as a whole. As a result, the technical data indicated in the catalogue may be subject to change without notice.

HYDROLUTION EZY SYSTEM - TECHNICAL DATA

EZY IDROSPLIT HYDROBOX R32

Outdoor unit model				FDCM100VNX-W	FDCM140VNX-W
Heating	Rated power	A7//W35	kW	10.00 (4.50~11.00)	14.00 (5.40~17.00)
	Power input			2.33	3.11
	Performance coefficient		COP	4.29	4.50
	Rated power	A7/W45	kW	10.00 (6.40~11.00)	14.50 (7.60~16.50)
	Power input			2.90	4.26
	Performance coefficient		COP	3.45	3.40
Cooling	Rated power	A35//W18	kW	11.00 (4.00~11.00)	16.50 (4.50~16.50)
	Power input			2.97	4.34
	Energy efficiency		EER	3.70	3.80
	Rated power	A35//W7	kW	8.50 (3.70~9.50)	12.50 (4.20~12.50)
	Power input			2.98	4.31
	Energy efficiency		EER	2.85	2.90
Seasonal data (Heating)	Prated @ -10°C	35/55	kW	8/8	12/12
	Seasonal performance coefficient		SCOP	4.85/3.48	4.61/3.40
	Seasonal energy efficiency (ns)		%	191/136	181/133
	Energy efficiency class		-	A+++/A++	A+++/A++
	Annual energy consumption		kWh/y	3815/5539	6175/8321
Operating range	Outdoor air temperature	Heating & DHW	°C	-25~43	
		Cooling		15~43	
Refrigerant circuit data	Refrigerant Type (GWP)			R32 (675)	
	Q.ty of precharge (tons CO2)		kg (t)	2.0 (1.350)	2.9 (1.958)
	Refrigerant control system			Electronic expansion valve	
	Compressor		Type	Twin rotary - DC Inverter	
Hydraulic data	Water/freon heat exchanger		Type	Braze-welded plates	
	Water connections	Size	inch	1"M (DN25)	1"M (DN25)
	Operating pressure (system)	Max	bar	3	3
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz	
	Maximum current		A	21.00	28.00
	Power cable (recommended)		Type	3x6 mm²	3x6 mm²
Product specifications	Fan	Type	q.ty	DC Inverter	
		Air flow	m³/h	3180	3600
	Sound power level (max)		dB(A)	60	63
	Sound pressure level (a 1 m)		dB(A)	45	48
	Dimensions	LxDxH	mm	1160x440x1120	1160x440x1120
	Weight	Net	kg	104	118
Indoor unit model				**HBM140**	**HBM140**
Operating range	Delivery water temperature	Heating & DHW	°C	25~60 (65 with heater)	
		Cooling		7~25	
Hydraulic data	Pompa di circolazione			Included	
	Attacchi acqua per U.E.	Dimensions	inch	1" threaded	
	Expansion vessel	Volume	L	10	
		Precharge	bar	0.5	
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz	
	Power input (Max)		A	2	
	Power cable (recommended)		Type	3x2.5 mm²	
Product specifications	Sound power level		dB(A)	-	
	Dimensions	LxDxH	mm	440x380x800	
	Weight	Net	kg	31	
	Control (included)			On board machine	
	Remote control via Modbus (optional)			MODBUS40M	

The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

EZY IDROSPLIT ALL IN ONE CONFIGURATION

Hydrolution EZY Idrosplit R290 is a heat pump system for heating, cooling and domestic hot water production with a tank integrated into the internal module. A high-performance product, made with the latest generation technologies and construction features to ensure maximum operating efficiency, hot water production up to 75°C makes it an optimal solution for retrofitting existing radiator systems.

GWP 0.02

R290
6, 8, 10, 14 kW models

HYDROLUTION EZY IDROSPLIT ALL IN ONE R290 COMBINATIONS

The EZY Idrosplit All in One R290 combination provides a complete solution for all space heating, cooling and DHW needs. Each EZY Idrosplit All in One combination consists of an FDCM outdoor unit and an HMM module with integrated controller. Inside the HMM: integrated DHW tank, circulation pump, electric heater, titanium anode, expansion vessel and valves.

The advantages of the EZY Idrosplit All in One solution:

- **HEATING, COOLING AND HOT WATER** with a single internal HMM module;
- **EASY INSTALLATION AND OPERATION**, the indoor and outdoor units are compact and make installation as simple as possible;
- **GAS FREE**: hydronic connection between outdoor and indoor units; the refrigeration circuit - and therefore the refrigerant - is confined to the outdoor unit only.
- ideal for residential use in apartments and small homes; three adjustable control levels (economic, normal, luxury) for the production of DHW;
- **CAPACITIES AVAILABLE**
  - **6 kW** - R290
  - **8 kW** - R290
  - **10 kW** - R290
  - **14 kW** - R290

R290 NEW REFRIGERANT

EZY IDROSPLIT ALL IN ONE CONFIGURATION

The wide range of Mitsubishi Heavy Industries products offers the right heat pump to meet every need.

EZY Idrosplit All in One is a complete solution, suitable for renovations and new constructions.

GWP 675

R32
10 kW model

HYDROLUTION EZY IDROSPLIT ALL IN ONE R32 COMBINATIONS

The EZY Idrosplit All in One R32 combination provides a complete solution for all space heating, cooling and DHW needs. Each EZY Idrosplit All in One combination consists of an FDCM outdoor unit and an HMM module with integrated controller. Inside the HMM: integrated DHW tank, circulation pump, electric heater, titanium anode, expansion vessel and valves.

The advantages of the EZY Idrosplit All in One solution:

- **HEATING, COOLING AND HOT WATER** with a single internal HMM module;
- **EASY INSTALLATION AND OPERATION**, the indoor and outdoor units are compact and make installation as simple as possible;
- **GAS FREE**: hydronic connection between outdoor and indoor units; the refrigeration circuit - and therefore the refrigerant - is confined to the outdoor unit only.
- ideal for residential use in apartments and small homes; three adjustable control levels (economic, normal, luxury) for the production of DHW;
- **CAPACITIES AVAILABLE**
  10 kW - R32

R32

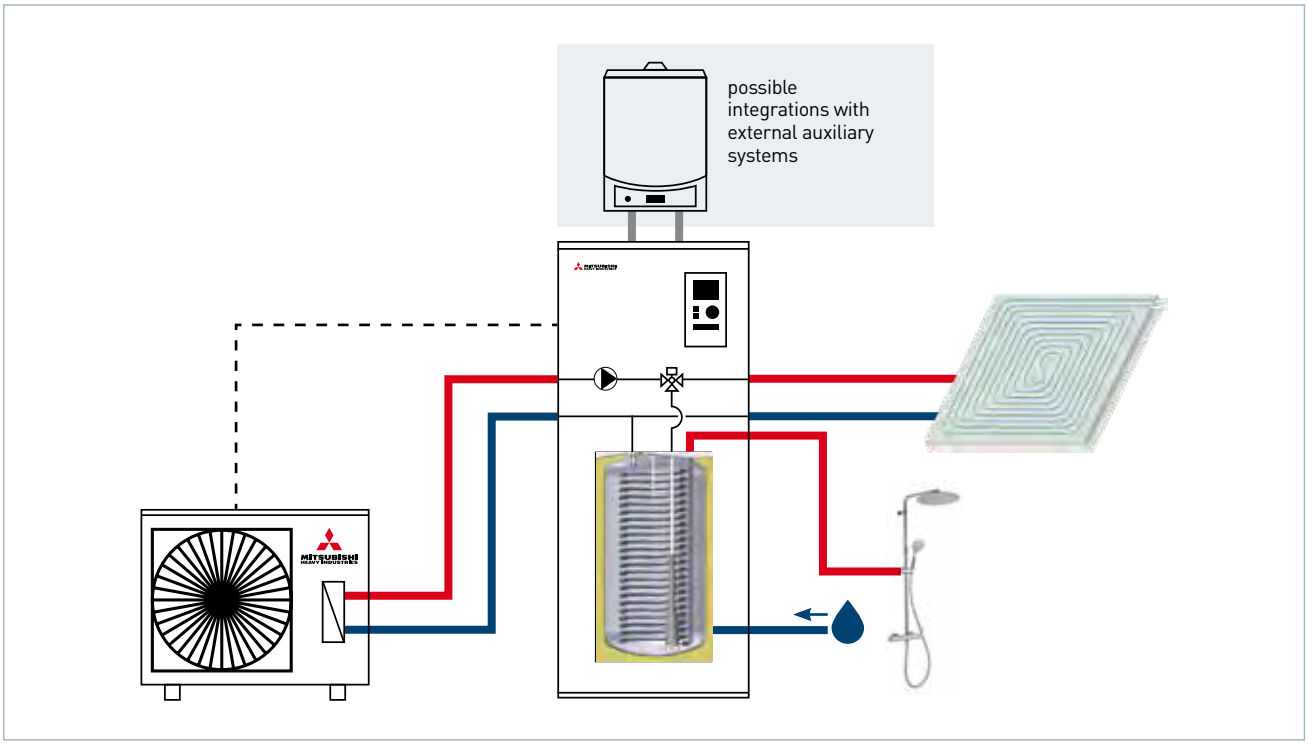
HMM MODULE

The HYDROLUTION EZY Idrosplit All in One solution meets, with a plug-in solution, the main requirements of a home: heating, cooling and DHW production.

MAIN ADVANTAGES OF HMM MODULE

- absence of refrigerant gas in the machine and consequently in the home;
- integrated control on the machine which facilitates the management and installation of the system;
- integrated circulator for heating and cooling;
- integrated 180 liter tank for the production of DHW;
- possibility of single-phase or three-phase power supply via special terminal block;
- titanium anode included as standard.

OPERATING DIAGRAM



HYDROLUTION EZY SYSTEM - TECHNICAL DATA

EZY IDROSPLIT ALL IN ONE R290 AND R32

Outdoor unit model				FDCM 60VNX-P	FDCM 71VNX-P	FDCM 100VNX-P	FDCM 100VSX-P	FDCM 100VNX-W
Heating	Rated power	A7//W35	kW	5.50 (0.95~8.00)	8.00 (1.00~10.00)	10.00 (1.40~15.00)*	10.00 (1.40~15.00)*	10.00 (4.50~11.00)
	Power input			1.07	1.85	2.13*	2.13*	2.33
	Performance coefficient		COP	5.14	4.49	4.70*	4.70*	4.29
	Rated power	A7/W45	kW	5.50 (0.92~8.00)	8.00 (0.97~10.00)	10.20 (1.30~14.70)*	10.20 (1.30~14.70)*	10.00 (6.40~11.00)
	Power input			1.46	2.11	2.76*	2.76*	2.90
	Performance coefficient		COP	3.77	3.79	3.70*	3.70*	3.45
Cooling	Rated power	A35//W18	kW	7.50 (1.93~8.00)	9.00 (1.93~10.00)	13.00 (3.30~14.80)*	13.00 (3.30~14.80)*	11.00 (4.00~11.00)
	Power input			2.05	2.20	3.60*	3.60*	2.97
	Energy efficiency		EER	3.66	4.09	3.61*	3.61*	3.70
	Rated power	A35//W7	kW	5.30 (1.32~6.30)	7.00 (1.32~7.50)	9.00 (2.20~12.00)*	9.00 (2.20~12.00)*	8.50 (3.70~9.50)
	Power input			1.75	2.25	3.00*	3.00*	2.98
	Energy efficiency		EER	3.03	3.11	3.00*	3.00*	2.85
Seasonal data (Heating)	Prated @ -10°C	35/55	kW	5/5	7/7			8/8
	Seasonal performance coefficient		SCOP	4.75/3.61	4.61/3.61	5.00/3.71*	5.00/3.71*	4.85/3.48
	Seasonal energy efficiency (ns)		%	187/141	181/141	197/145.4*	197/145.4*	191/136
	Energy efficiency class		-	A+++/A++	A+++/A++	A+++/A++*	A+++/A++*	A+++/A++
	Annual energy consumption		kWh/y	2135/2695	3055/3841			3815/5539
Operating range	Outdoor air temperature	Heating & DHW	°C	-25~43	-25~43	-25~43	-25~43	-25~43
		Cooling		15~45	15~45	15~45	15~45	15~43
Refrigerant circuit data	Refrigerant Type (GWP)			R290 (0.02)				R32 (675)
	Q.ty of precharge (tons CO2)		kg (t)	0.65 (0)	0.85 (0)	1.3 (0)	1.3 (0)	2.0 (1.350)
	Refrigerant control system			Electronic expansion valve				
	Compressor		Type	Twin rotary - DC Inverter				
Hydraulic data	Water/freon heat exchanger		Type	Braze-welded plates				
	Water connections	Size	inch	1"M (DN25)		1"M (DN25)		1"M (DN25)
	Operating pressure (system)	Max	bar	3		3		3
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz			3ph-400V-50Hz	1ph-230V-50Hz
	Maximum current		A	13.00	16.00	21.00	11.00	21.00
	Power cable (recommended)		Type	3x2.5 mm²		3x6 mm²	5x2.5 mm²	3x6 mm²
Product specifications	Fan	Type	q.ty	DC Inverter				
		Air flow	m³/h	2520	3000	3300	3300	3180
	Sound power level (max)		dB(A)	58	62	66	66	60
	Sound pressure level (a 1 m)		dB(A)	41	49	50	50	45
	Dimensions	LxDxH	mm	1160x440x916		1160x440x1120		
	Weight	Net	kg	82	90	122	127	104
Indoor unit model				**HMM100**	**HMM100**	**HMM100**	**HMM100**	**HMM100**
Operating range	Delivery water temperature	Heating & DHW	°C	25~75 (85 with heater)				25~60 (65 with heater)
		Cooling		5~25				7~25
	DHW temperature (tank)	Max		80				
Hydraulic data	DHW tank capacity		L	180				
	Circulation pump			Included				
	Water connections for O.U.	Size	mm	22				
	Operating pressure (system)	Max	bar	10				
	Expansion vessel	Volume	L	10				
		Precharge	bar	0.5				
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz / 3ph-400V-50Hz				
	Electrical integration	Power supply 230V /400V	kW	6.00 / 9.00				
	Power input (Max)		A	26.00 / 13.00				
	Power cable (recommended)		Type	3x10 mm² / 5x2.5 mm²				
Product specifications	Sound power level		dB(A)	-				
	Dimensions	LxDxH	mm	600x610x1670				
	Weight	Net	kg	150				
	Anode (supplied)			Titanium				
	Control (included)			On board machine				
	Remote control via Modbus (optional)			MODBUS40M				

The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

* MHI also reserves the right, during commercialisation, to make minor changes to products in order to improve the product as a whole. As a result, the technical data indicated in the catalogue may be subject to change without notice.

EZY FLEXIBLE CONFIGURATION

The wide range of Mitsubishi Heavy Industries products offers the right heat pump to meet every need.

EZY Flexible is the monoblock heat pump that can be used individually or in a cascade of up to 8 modules.

GWP 675

R32

16 kW model

HYDROLUTION EZY FLEXIBLE COMBINATIONS

The Hydrolution EZY Flexible system offers space heating and cooling with the option of adding domestic hot water production.

HYDROLUTION EZY Flexible is composed of the external unit only (FDCM). By combining the accessories, the installation is even more complete and adapts to every air conditioning need.

The advantages of the Hydrolution EZY Flexible:

- **HEATING AND COOLING ONLY OPTION**, it is available by connecting a circulation pump and an electric resistance (optional) in addition to HYDROLUTION EZY Flexible;
- **DHW OPTION**, available by connecting in addition to HYDROLUTION EZY Flexible a circulation pump, an electric resistance, a DHW tank and a diverter valve;
- **FLEXIBLE INSTALLATION OF UNITS**, it is possible to combine the components according to your needs;
- **GAS FREE**: hydraulic connection between external and internal units, the refrigeration circuit is confined to the external unit only;
- **CAPACITIES AVAILABLE**

  16 kW - R32

R32

IL SISTEMA HYDROLUTION EZY - DATI TECNICI

EZY FLEXIBLE R32

Outdoor unit model				FDCM140VNX-W
Heating	Rated power	A7//W35	kW	14.00 (5.40~17.00)
	Power input			3.11
	Performance coefficient		COP	4.50
	Rated power	A7/W45	kW	14.50 (7.60~16.50)
	Power input			4.26
	Performance coefficient		COP	3.40
Cooling	Rated power	A35//W18	kW	16.50 (4.50~16.50)
	Power input			4.34
	Energy efficiency		EER	3.80
	Rated power	A35//W7	kW	12.50 (4.20~12.50)
	Power input			4.31
	Energy efficiency		EER	2.90
Seasonal data (Heating)	Prated @ -10°C	35/55	kW	12.00/12.00
	Seasonal performance coefficient		SCOP	4.61/3.40
	Seasonal energy efficiency (ns)		%	181/133
	Energy efficiency class		-	A+++/A++
	Annual energy consumption		kWh/y	6175/8321
Operating range	Outdoor air temperature	Heating & DHW	°C	-25~43
		Cooling		15~43
	Delivery water temperature	Heating & DHW	°C	25~60
		Cooling		7~25
Refrigerant circuit data	Refrigerant Type (GWP)			R32 (675)
	Q.ty of precharge (tons CO2)		kg (t)	2.9 (1.958)
	Refrigerant control system			Electronic expansion valve
	Compressor		Type	Twin rotary - DC Inverter
Hydraulic data	Min. DHW tank capacity (not included)		L	500
	Water/freon heat exchanger		Type	Braze-welded plates
	Circulation pump			Not included
	Water connections	Dimensions	inch	1"M (DN25)
	Operating pressure (system)	Max	bar	3
	Expansion vessel			Not included
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz
	Maximum current		A	28
	Power cable (recommended)		Type	3x6 mm²
Product specifications	Fan	Type	q.ty	DC Inverter
		Air flow	m³/h	3600
	Sound power level		dB(A)	63
	Sound pressure level (a 1 m)		dB(A)	48
	Dimensions	LxDxH	mm	1160x440x1120
	Weight	Net	kg	118
	Control (included)			RC-HY40-W
	Remote control via Modbus (optional)			MODBUS40M[1]

The data reported above refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

1. Not compatible with RC-HY20-W.

HYDROLUTION, THE SYSTEM FOR HEATING, COOLING AND DHW PRODUCTION

A+++

MINIMUM ENERGY CLASS 35°C

R32

6 & 8 KW MODELS

HYDROLUTION SYSTEM - ADVANTAGES

Cutting-edge design and technological innovation are the basis of the HYDROLUTION system.

ENERGY SAVING

The HYDROLUTION outdoor units are equipped with Inverter technology and Twin Rotary compressor: it is possible to vary the operating frequency of the compressor based on the actual demand of the system, with consequent optimization of the COP and EER values.

MAXIMUM SILENCE OF THE OUTDOOR UNITS

The sound level emitted by the outdoor unit of an air conditioning system can be a problem, especially at night.
The HYDROLUTION system, thanks to the 'Silent' mode, is able to reduce the speed of the fan and compressor. This results in a significant reduction in the sound level. It is possible to set the operation of the outdoor unit in 'Silent' mode using the RC-HY20/40-W controls.

EXTREME COMPACTNESS

In the case of the indoor units of the All in One version system, the reduced size is due to the high performance of the internal components, in particular the domestic water tank and the plate heat exchanger.

HOT WATER UP TO 65°C

HYDROLUTION is a heat pump particularly suitable for primary heating, tested in numerous projects in Europe: it is capable of producing hot water **up to 60°C**. It is possible to raise the limit up to 65°C via an additional heat source, **and keep them constant even at an outdoor temperature of -20°C**. For this reason, it can be combined with: low temperature heating elements (radiant panels); medium temperature heating elements (high efficiency radiators, warmcoils).

HIGH RELIABILITY

The outdoor unit compressor is designed to be efficient even in very cold climates.

BLUE FIN TREATMENT

Corrosion of the outdoor unit, due to the action of atmospheric agents, can compromise the correct functioning of the system.
The 'Blue Fin' treatment, applied to the exchanger, helps prevent corrosion.

HYDROLUTION SYSTEM - CONFIGURATIONS

ALL IN ONE CONFIGURATION

The wide range of Mitsubishi Heavy Industries products offers the right heat pump to meet every need.
All in One is a complete solution, suitable for renovations and new buildings.

ALL IN ONE COMBINATIONS (OUTDOOR UNIT + INDOOR UNIT)

The All in One combination provides the complete solution for all your heating, cooling and domestic hot water needs.

Each All in One combination includes an outdoor unit and an HMA system, having an integrated DHW tank, an electric resistance and a circulation pump.

Here are the advantages of HYDROLUTION All in One:

- heating, cooling and hot water in one unit;
- easy installation and operation, the indoor and outdoor units are compact and make installation as simple as possible;
- ideal for residential use in apartments and small homes;
- three settable control levels (economy, normal, luxury) for DHW production;
- **CAPACITIES AVAILABLE**
  - **6 kW** - R32
  - **8 kW** - R32

FUNCTIONALITY	APPLICATIONS	ADVANTAGES FOR PROFESSIONALS	ADVANTAGES FOR CUSTOMERS
• floor heating • heating via high efficiency radiators • DHW & heating • cooling • fancoil heating	• independent homes	• can also be installed in small spaces • installation flexibility • low environmental impact • can be integrated with traditional heating systems	• heating, DHW and cooling in a single system • easy to use • quiet operation • high performance • long-term reliability • low management costs

HYDROLUTION SYSTEM - HMA MODULE

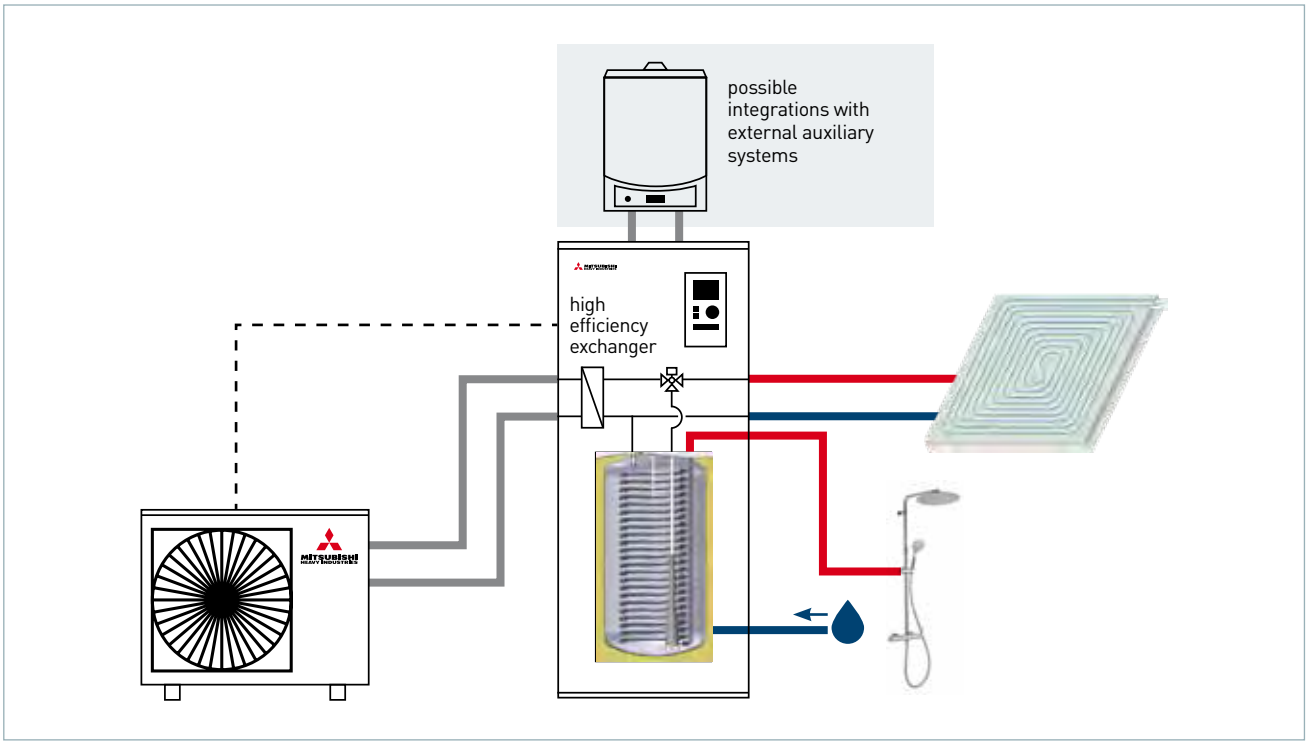
HMA MODULE

HYDROLUTION's All in One solution allows you to satisfy, with a plug-in solution, the main heating, cooling and DHW production needs of a home.

MAIN ADVANTAGES OF HMA MODULE

- integrated control on the machine which facilitates the management and installation of the system;
- compact, high-efficiency heat exchanger that allows you to quickly reach the desired temperatures;
- integrated 180 liter tank for the production of DHW;
- possibility of single-phase or three-phase power supply via special terminal block;
- titanium anode included as standard.

OPERATING DIAGRAM



HYDROLUTION SYSTEM - TECHNICAL DATA

ALL IN ONE R32

Outdoor unit model				FDCW60VNX-W	FDCW71VNX-W
Heating	Rated power	A7//W35	kW	5.08 (0.90~7.60)	8.30 (2.20~9.50)
	Power input			0.99	1.93
	Performance coefficient		COP	5.16	4.30
	Rated power	A7/W45	kW	2.70 (2.70~8.00)	8.00 (3.00~10.00)
	Power input			0.88	2.35
	Performance coefficient		COP	3.06	3.40
Cooling	Rated power	A35//W18	kW	7.54 (1.20~7.80)	9.00 (2.70~10.70)
	Power input			2.11	2.48
	Energy efficiency		EER	3.57	3.62
	Rated power	A35//W7	kW	5.31 (0.60~6.30)	7.10 (2.00~7.10)
	Power input			1.95	2.62
	Energy efficiency		EER	2.73	2.70
Seasonal data (Heating)	Prated @ -10°C	35/55	kW	4.80/5.30	7.50/7.00
	Seasonal performance coefficient		SCOP	4.83/3.50	4.58/3.35
	Seasonal energy efficiency (ns)		%	190/137	180/131
	Energy efficiency class		-	A+++/A++	A+++/A++
	Annual energy consumption		kWh/y	2089/3193	3450/4421
Seasonal data (DHW)	Test cycle profile			XL	XL
	Energy efficiency (nwh)		%	100	107
	Energy efficiency class			A	A
	Annual energy consumption		kWh/y	-	-
Operating range	Outdoor air temperature	Heating & DHW	°C	-20~43	
		Cooling		15~43	
Refrigerant circuit data	Refrigerant Type (GWP)			R32 (675)	
	Q.ty of precharge (tons CO2)		kg (t)	1.3 (0.878)	1.84 (1.242)
	Piping diameter liquid/gas		mm (inch)	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
	Max splitting distance		m	30	50
	Max splitting level difference O.U.-I.U. / I.U.-O.U.		m	20 / 20	30 / 15
	Splitting distance without additional charge		m	15	15
	Additional charge		g/m	20	20
	Refrigerant control system			Capillary tube + EEV	Electronic expansion valve
	Compressor		Type	Twin rotary - DC Inverter	
Electrical data	Power supply	From indoor unit	Ph-V-Hz	1ph-230V-50Hz	
	Maximum current		A	15	18
	Power cable (recommended)		Type	3x4 mm²	3x4 mm²
Product specifications	Fan	Type	q.ty	DC Inverter x 1	
		Air flow (max)	m³/h	2490	3000
	Sound power level (max)		dB(A)	65	69
	Sound pressure level (a 1 m)		dB(A)	44	49
	Dimensions	LxDxH	mm	800x290x640	880+(88)x340x750
	Weight	Net	kg	46	62
Indoor unit model				**HMA60-W**	**HMA100-W**
Operating range	Delivery water temperature	Heating & DHW	°C	25~58	25~60
		Cooling		7~25	
	DHW temperature (tank)	Max		80	
Hydraulic data	DHW tank capacity		L	180	
	Water/freon heat exchanger		Type	Braze-welded plates	
	Circulation pump			Included	
	Water connections	Size	mm	22	
	Operating pressure (system)	Max	bar	3	
	Expansion vessel	Volume	L	10	
		Precharge	bar	0.5	
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz / 3ph-400V-50Hz	
	Electrical integration	Power supply 230V /400V	kW	6 / 9	
	Power input (Max)		A	29 / 20	36 / 20
	Power cable (recommended)		Type	3x6 mm² / 5x4 mm²	3x10 mm² / 5x4 mm²
Product specifications	Sound power level		dB(A)	-	
	Dimensions	LxDxH	mm	600x610x1715	
	Weight	Net	kg	155	165
	Anode (supplied)			Titanium	
	Control (included)			On board machine	
	Remote control via Modbus (optional)			MODBUS40M	

The data reported above refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

HYDROBOX CONFIGURATION

In Hydrobox mode, HYDROLUTION can be used for heating and cooling only, or in combination with one or more storage tanks to also produce domestic hot water.

HYDROBOX COMBINATIONS

The Hydrobox combination offers space heating and cooling with the option of adding domestic hot water production.

HYDROLUTION Hydrobox is composed of an external unit and a hydromodule (HMS), having an electrical resistance and a circulation pump inside. By combining the accessories, the installation is even more complete and adapts to every air conditioning need.

Hydrobox solution has the following advantages:

- **HEATING AND COOLING ONLY OPTION**, is available without the addition of any accessories as the circulation pump and the electrical resistance are already inside the hydromodule;
- **DHW OPTION**, available by connecting a DHW tank to the HYDROLUTION Hydrobox;
- **FLEXIBLE INSTALLATION OF UNITS**, you can combine the components according to your needs;
- **CAPACITIES AVAILABLE**
  6 kW - R32
  8 kW - R32

FUNCTIONALITY	APPLICATIONS	ADVANTAGES FOR PROFESSIONALS	ADVANTAGES FOR CUSTOMERS
• floor heating • heating via high efficiencyradiators • DHW & heating • cooling • fancoil heating	• independent homes • micro condominiums • offices • small shops	• integrates with traditional heating systems • installation flexibility • low environmental impact • can also be installed in small spaces	• high performance • long-term reliability • low management costs • quiet operation • easy to use

HYDROLUTION SYSTEM - TECHNICAL DATA

HYDROBOX R32

Outdoor unit model				FDCW60VNX-W	FDCW71VNX-W
Heating	Rated power	A7//W35	kW	5.08 (0.90~7.60)	8.30 (2.20~9.50)
	Power input			0.98	1.93
	Performance coefficient		COP	5.16	4.30
	Rated power	A7/W45	kW	2.70 (2.70~8.00)	8.00 (3.00~10.00)
	Power input			0.88	2.35
	Performance coefficient		COP	3.06	3.40
Cooling	Rated power	A35//W18	kW	7.54 (1.20~7.80)	9.00 (2.70~10.70)
	Power input			2.11	2.49
	Energy efficiency		EER	3.57	3.62
	Rated power	A35//W7	kW	5.31 (0.60~6.30)	7.10 (2.00~7.10)
	Power input			1.95	2.63
	Energy efficiency		EER	2.73	2.70
Seasonal data (Heating)	Prated @ -10°C	35/55	kW	4.80/5.30	7.50/7.00
	Seasonal performance coefficient		SCOP	4.83/3.50	4.58/3.35
	Seasonal energy efficiency (ns)		%	190/137	180/131
	Energy efficiency class		-	A+++/A++	A+++/A++
	Annual energy consumption		kWh/y	2089/3193	3450/4421
Seasonal data (DHW)	Test cycle profile			XXL	XXL
	Energy efficiency (nwh)		%	113	-
	Energy efficiency class			A	-
	Annual energy consumption		kWh/y	-	-
Operating range	Outdoor air temperature	Heating & DHW	°C	-20~43	
		Cooling		15~43	
Refrigerant circuit data	Refrigerant Type (GWP)			R32 (675)	
	Q.ty of precharge (tons CO2)		kg (t)	1.3 (0.878)	1.84 (1.242)
	Piping diameter liquid/gas		mm (inch)	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
	Max splitting distance		m	30	50
	Max splitting level difference O.U.-I.U. / I.U..-O.U.		m	20 / 20	30 / 15
	Splitting distance without additional charge		m	15	15
	Additional charge		g/m	20	20
	Refrigerant control system			Capillary tube + EEV	Electronic expansion valve
	Compressor		Type	Twin rotary - DC Inverter	
Electrical data	Power supply	From indoor unit	Ph-V-Hz	1ph-230V-50Hz	
	Maximum current		A	15	18
	Power cable (recommended)		Type	3x4 mm²	3x4 mm²
Product specifications	Fan	Type	q.ty	DC Inverter x 1	
		Air flow	m³/h	2490	3000
	Sound power level (max)		dB(A)	65	69
	Sound pressure level (a 1 m)		dB(A)	44	49
	Dimensions	LxDxH	mm	800x290x640	880(+88)x340x750
	Weight	Net	kg	46	62
Indoor unit model				**HMS60-W**	**HMS100-W**
Operating range	Delivery water temperature	Heating & DHW	°C	25~58	25~60
		Cooling		7~25	
Hydraulic data	Min. DHW tank capacity (not included)		L	200	200
	Water/freon heat exchanger		Type	Braze-welded plates	
	Circulation pump			Included	
	Water connections	Size	mm	22	22
	Operating pressure (system)	Max	bar	3	3
	Expansion vessel	Volume	L	12	12
		Precharge	bar	0.5	0.5
Electrical data	Power supply		Ph-V-Hz	1ph-230V-50Hz / 3ph-400V-50Hz	
	Electrical integration	Power supply 230V /400V	kW	6 / 9	6 / 9
	Power input (Max)		A	29 / 20	36 / 20
	Power cable (recommended)		Type	3x6 mm² / 5x4 mm²	3x10 mm² / 5x4 mm²
Product specifications	Sound power level		dB(A)	-	
	Dimensions	LxDxH	mm	515x350x850	
	Weight	Net	kg	50	56
	Control (included)			On board machine	
	Remote control via Modbus (optional)			MODBUS40M	

The data reported above refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

HYDROLUTION SYSTEM - ACCESSORIES

	Description	Code
	Electric resistance integration kit for EZY system.	ELK9M1
	6 kW All in One module (R32).	HMA 60-W
	8 kW All in One module (R32).	HMA 100-W
	6, 8, 10 kW EZY Idrosplit module (R290 - R32).	HMM 100
	6 to 16 kW Hydrobox EZY Idrosplit module (R290 - R32).	HBM140
	Hydrobox for 6 kW O.U.	HMS 60-W
	Hydrobox for 8 kW O.U.	HMS 100-W
	Modular units' control (up to 8).	RC-HY40-W
	Circulation pump (up to 10 kW).	CPD11-25M-65
	Circulation pump (16 kW).	CPD11-25M-75
	DHW/heating diverter valve (6-8 kW)	VST05M
	DHW/heating diverter valve 10-16 kW).	VST11M
	DHW/heating diverter valve for power >16 kW and up to 40 kW.	VST20M
	Cooling Heating diverter valve (6-8 kW).	VCC05M
	Cooling Heating diverter valve (10-16 kW).	VCC11M
	Control kit for secondary heating systems up to 1200 l/h.	ECS40M
	Control kit for secondary heating systems up to 1950 l/h.	ECS41M
	Multifunction card.	AXC30M

	Description	Code
	Ambient temperature sensor.	RTS40M
	Remote control.	RMU40M
	Energy measurement kit up to 85 litres/min.	EMK300M
	Energy measurement kit up to 150 litres/min.	EMK500M
	3 kW electric resistance kit + control unit.	ME1030+HR10M
	MODBUS remote control.	MODBUS40M
	Integrated stainless steel storage tank and coil for the production of domestic hot water. Volume 300 litres. Dimensions (Ø x h) 650 x 1486 mm.	WT-AP-DW1-300 C-1
	Integrated stainless steel storage tank and coil for the production of domestic hot water. Volume 500 litres. Dimensions (Ø x h) 750 x 1786 mm.	WT-AP-DW1-500 C-1
	1.5 kW supplementary electric resistance for 300 and 500 liter tanks.	WT-EH-15-C
	Titanium anode for 300 liter tank.	WT-AT-2-4-C
	Titanium anode for 500 liter tank.	WT-AT-5-C
	Hydraulic separator - 25 liter thermal flywheel.	WT-SI-PDC-25 C
	Hydraulic separator - 51 liter thermal flywheel.	WT-SI-PDC-50 C
	100 liter inertial tank.	WT-VT-PDC-100 C

SAFETY KIT FOR INSTALLATION

The kit includes:

- Electronic leak detector.
- Personal detector.
- Sure Check spray leak detector.
- ATEX fan.
- Safety glasses.
- Antistatic gloves.
- Termal pouch.

MITSUBISHI HEAVY INDUSTRIES

CONTROL SYSTEMS

To guarantee maximum efficiency of an air-water heat pump system like that of HYDROLUTION, MHI has designed and created a complete line of management and monitoring devices.

A residential heating system must necessarily be subjected to precise control 24 hours a day: **RC-HY40-W** has been designed to simplify this control and reduce management costs and energy consumption.

RC-HY40-W

Areas of application

All in One [control included]
All in One Idrosplit [control included]
Hydrobox [control included]
Hydrobox Idrosplit [control included]
Ezy Flexible - single unit [required]
Ezy Flexible - cascade [required]

RC-HY40-W features

RC-HY40-W is the control unit for the management and regulation of centralized and autonomous systems created using the HYDROLUTION system. **RC-HY40-W** is integrated into the internal modules All in One, All in One Idrosplit and Hydrobox; it must be provided as a mandatory accessory for EZY Flexible configurations in single or cascade version (one **RC-HY40-W** control controls up to 8 units in cascade).

Specifically, it allows you to:

- manage the operating modes (on/off) and the system time schedules;
- ensure efficiency in the regulation of the system;
- manage the temperature of the delivery water automatically;
- manage the anti-legionella cycles and the activation of the DHW recirculation pump;
- activate the 'Silent' function.

HYDROLUTION SYSTEM - CONTROL SYSTEMS

ON/OFF and system time programming

RC-HY40-W control devices it is possible to both manage the operation (switching on and off) of the **HYDROLUTION** system, the operation of the 'Silent' function and program the cooling supply, heating and DHW throughout the week. During the operation of the heat pump it is possible to:

- to create 3 daily programs in heating mode with the possibility of setting the deviation from the reference climate curve, or the desired temperature in the single period (only if the internal temperature sensor is present);
- to set 2 time schedules in cooling mode;
- to set 2 time schedules for system operation in 'Silent' mode;
- to program the temperature and DHW delivery

a) through 3 different DHW production control parameters: economical – normal – luxury; it is possible to program two daily production cycles with different temperature levels for each day of the week;

b) by activating the 'Temporary luxury' function it is possible to increase it for a certain period of time (up to 12 hours), the DHW production temperature;

c) by activating the 'Holidays' function it is possible to reduce the heating and temporarily suspend the DHW production.

Efficiency in system regulation

It is possible to guarantee system efficiency by monitoring the DM parameter (degrees per minute), which allows for rapid responses and better management of the operating frequencies of the outdoor unit compressor.

Anti-legionella cycles and DHW recirculation

It is possible to set the programming of the anti-legionella cycles via the 'Sterilyze' function: the activation interval of the cycles is between 1 and 90 days.

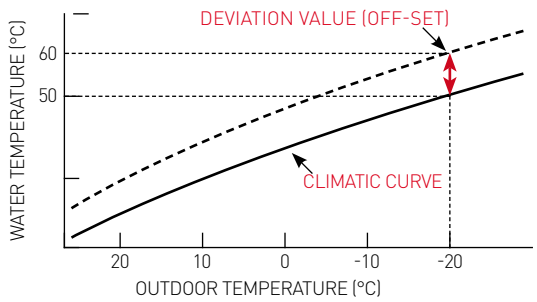
It is also possible to set 3 daily operating periods of the DHW recirculation pump.

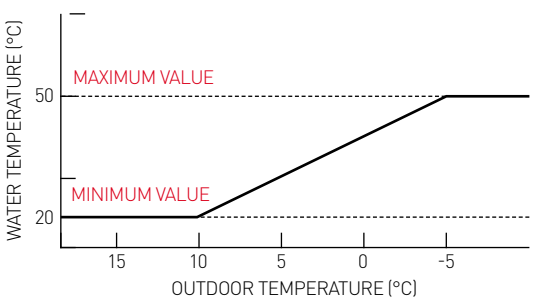
'Silent' function

Activating the 'Silent' function allows you to significantly reduce the noise emitted by the external unit, reducing the speed of the compressor and fan. It is possible to set 2 time schedules in this operating mode.

Automatic management of the system delivery temperature

The management of the delivery temperature to the system occurs by setting the climatic operating curve. From the control device the user can set a personalized climate curve, quickly modify it as needed, indicating a deviation value compared to the reference climate curve ('Off-set' function). It is possible to establish a lower and upper temperature limit for the water supplied to the system.





Climatic curve: to guarantee energy efficiency and indoor comfort, the system regulates the degrees °C of the supply water when the outside temperature changes.

RC-HY40-W FEATURES & FUNCTIONS

The RC-HY40-W control device, in addition to being equipped with the features listed in the previous paragraphs, offers highly sophisticated continuous monitoring functions and provides valuable information on consumption, performance, as well as a wide range of operational data.

The features are described in more detail below.

- Through **RC-HY40-W**, efficiency in regulation, durability of the system and continuity of service are guaranteed.

- **RC-HY40-W is able to manage up to 8 distribution systems at different temperatures** (radiant panels, high efficiency radiators and warm coils). If inside a condominium there are heating systems that work at different delivery temperatures, by setting a climate curve dedicated to each system, via the RC-HY40-W control, it is possible to manage up to 8 distribution systems at different temperatures . It is necessary to add, for each distribution system, an ECSM40/ECSM41 accessory kit.


warmcoil


high efficiency radiators


radiant panels

- **RC-HY40-W is able to manage the accounting and distribution of energy consumption**: by connecting an energy meter kit to the RC-HY40-W control, it is possible to quantify the system's consumption and view it directly from the control system. The distribution of energy consumption of the various users can be carried out through the installation of heat meters and distribution boxes dedicated to each apartment.

RC-HY40-W INTEGRATION WITH EXTERNAL HEAT SOURCES

RC-HY40-W is able to manage the integration of the HYDROLUTION system with external heat generators. Using an external generator (e.g. pellet or methane boilers) it is possible to raise the maximum temperature limit of the system water to **65° C**. Integration management is not limited to a simple switching on/off of the heat source integrative (already also present in the 20-W version), but can control a mixing valve adjusted to obtain a specific temperature set by command.

In the event of a heat pump failure, DHW production and heating are guaranteed with the help of the emergency function, which activates the integration system automatically.

Below are the possible operating methods of this management

AUTOMATIC MODE

Allows you to set the operating range of the outdoor temperature of the heat pump heating and the boiler.

MANUAL MODE

Allows you to activate/deactivate integration from external heat generators.

Allows you to activate/deactivate heat pump heating.

EXTERNAL GENERATOR ONLY MODE

It allows the use of only the external generator for heating and DHW production.

In the event of a heat pump failure, DHW production and heating are guaranteed with the help of the emergency function, which activates the integration system automatically.

HYDROLUTION SYSTEM - CONTROL SYSTEMS

REMOTE MONITORING

STAY IN CONTROL WITH MYUPLINK

THE ULTIMATE APP FOR REMOTE MONITORING

The Hydrolution air-to-water unit interfaces seamlessly with an independent remote monitoring system via the myUplink platform - a dedicated application tailored for users.

INDEPENDENT REMOTE MONITORING SYSTEM

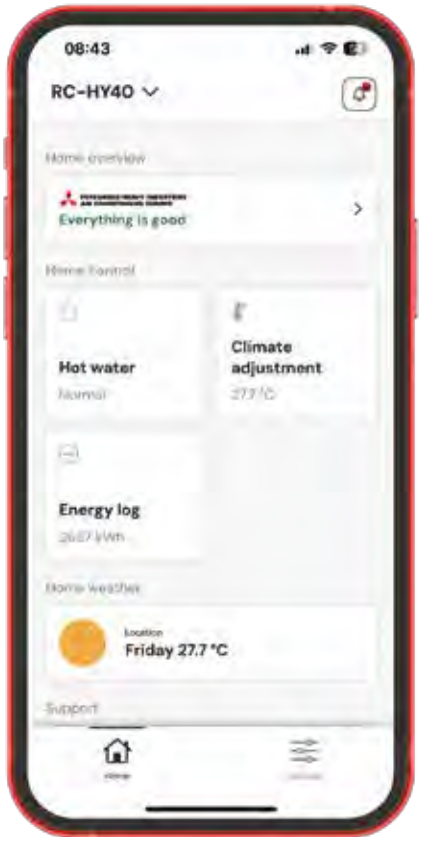
This sophisticated system enables users to supervise and control the Hydrolution unit remotely, allowing real-time performance monitoring, identification of maintenance needs and ensuring optimal efficiency.

EXPERIENCE ADVANCED CONTROL AND MONITORING WITH MYUPLINK

- Status overview:
  Get a quick and complete overview of your heat pump's status.
- Heating level control:
  Easily manage and adjust heating and hot water production according to your desired comfort level.
- Instant notifications: Receive push and email notifications if your system is affected by an issue, so you are always informed and can act promptly.

MYUPLINK MAIN BENEFITS:

- Real-time monitoring and control of heating, domestic hot water, pool, solar system and heat pump operation
- Real-time alarm information
- Cloud-based software updates
- Clear, intuitive monitoring of heating and domestic hot water temperature
- Easy-to-use control system for maximum comfort, wherever you are
- Weather forecast compensation



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Download on the App Store

GET IT ON Google Play

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MITSUBISHI HEAVY INDUSTRIES

HYDROLUTION PRO

HYDROLUTION PRO, THE SYSTEM TO HEATING AND COOLING

R32

GWP 675

50 KW

e-3D

NEW COMPRESSOR E-3D SCROLL

HYDROLUTION PRO
HEATING AND COOLING
AT MAXIMUM PERFORMANCE

HYDROLUTION PRO is a latest-generation monoblock heat pump, designed for industrial applications.

It is equipped with an advanced compressor and ecological R32 refrigerant, its exceptional performance stands out, significantly reducing the environmental impact compared to traditional systems.

With 5 different versions, it is able to adapt to any type of system, ensuring efficiency and versatility. Its very low R32 charge makes it an ecological and sustainable choice.

HIGH EFFICIENCY

- Class A+++ in heating with flow water temperature at 35° C.

ENVIRONMENTALLY RESPONSIBLE

- Ecological, as it guarantees low environmental impact and silent operation.

TOP EFFICIENCY

- SCOP 4.59 in heating.
- The compressor is designed to be efficient up to -20° C, it is suitable for the coldest climates, in cooling the efficient operation of the machine is guaranteed up to 43° C.

ADVANTAGES

- Suitable for underfloor heating, fan coil and radiator systems.
- Modular solution up to 1000 kW.
- Long-term reliability.
- When using Hot Water or Q-ton for ACS, possibility of eliminating methane altogether.
- Low management costs.

A+++

With delivery temperature at 35°C

R32

For all power sizes

-20°C

Heating operation up to-20° C

43°C

Delivery water at 4° C up to 43° C external

4.59

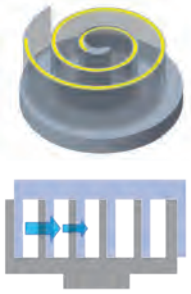
SCOP heating

HYDROLUTION PRO

New e-3D Scroll compressor

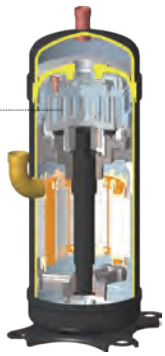
New technology uses EC fan for maximum efficiency and energy saving.

- World-unique compression process design.
- Improved energy efficiency with exceptional low-speed performance.
- Significant increase in compressor efficiency.



NORMAL SCROLL

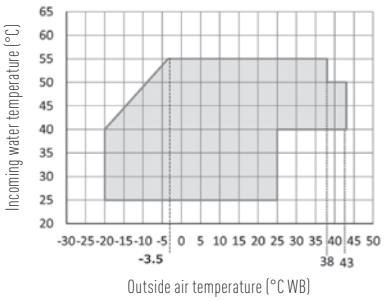
NEW E-3D SCROLL FOR MSV2



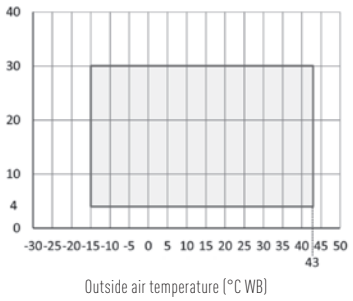
Wide range of applications

Cooling operation with incoming air at 43° C.

HEATING



COOLING



REMOTE CONTROL RC-MCU-E

- A wired controller can be connected to up to 20 MCUS, which, with the same operating mode, will work with the same parameters.
- Control of mixed Heating/Cooling operation when there are multiple MCUS connected to the same system.
- It is possible to set a yearly schedule consisting of up to six different patterns.
- It is possible to display capacity and COP.
- Store the cooling/heating temperature settings separately.
- Display and reset the Error log.

ADVANCED CONTROL MCU-C-E

- Allows control of up to 20 units.
- Optimally controls the number of machines to be used based on the load.
- Management of the bypass valve.
- Allows control of a secondary circulation pump.
- Optimization of compressor hours, the operating priority falls on the machine with the least active working hours. Maximization of the useful life of the components.

HYDROLUTION PRO

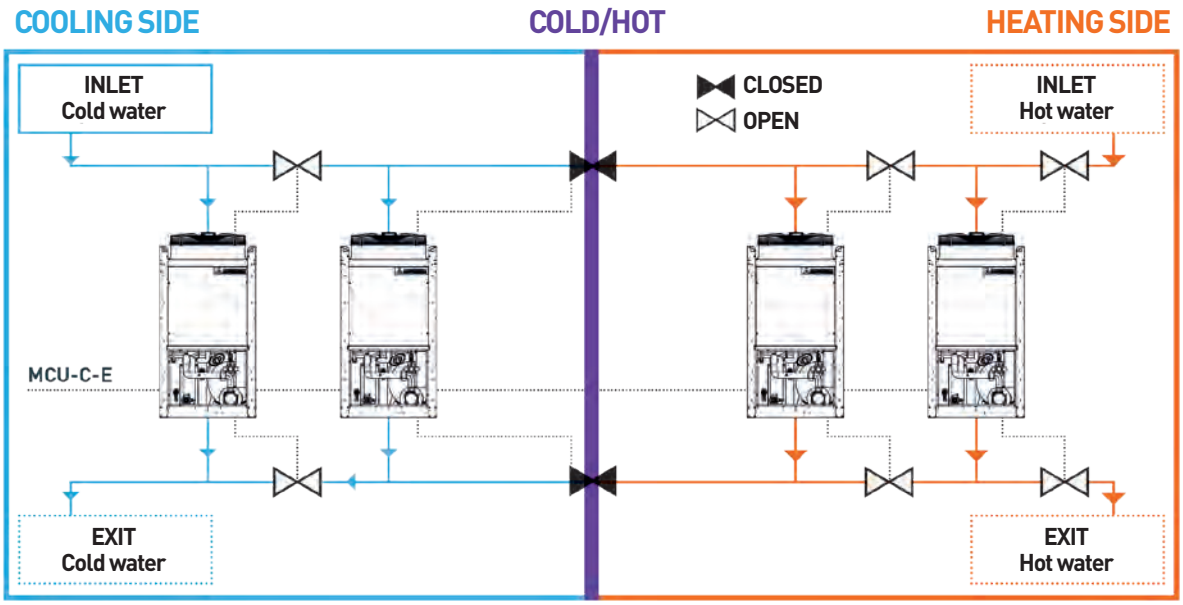
Easy operation

With the easy-to-use RC-MCU-E wired controller, adjusting settings becomes a breeze. The advanced MCU-C-E control takes care of optimizing unit operation based on load.

To meet the varying seasonal demand for hot and cold water, the system allows the number of cooling and heating units to be adjusted based on the operating season and load.
In addition, a mixed operation setting for cooling and heating can be configured effortlessly using the calendar function on the wired controller. This feature allows users to create optimized management plans for facilities.

Simultaneous heating and cooling

The system allows simultaneous heating and cooling with two-pipe terminals, thanks to advanced programming via the control panel. This allows you to configure and adjust, based on specific needs, the units in hot and/or cold mode within the same system.



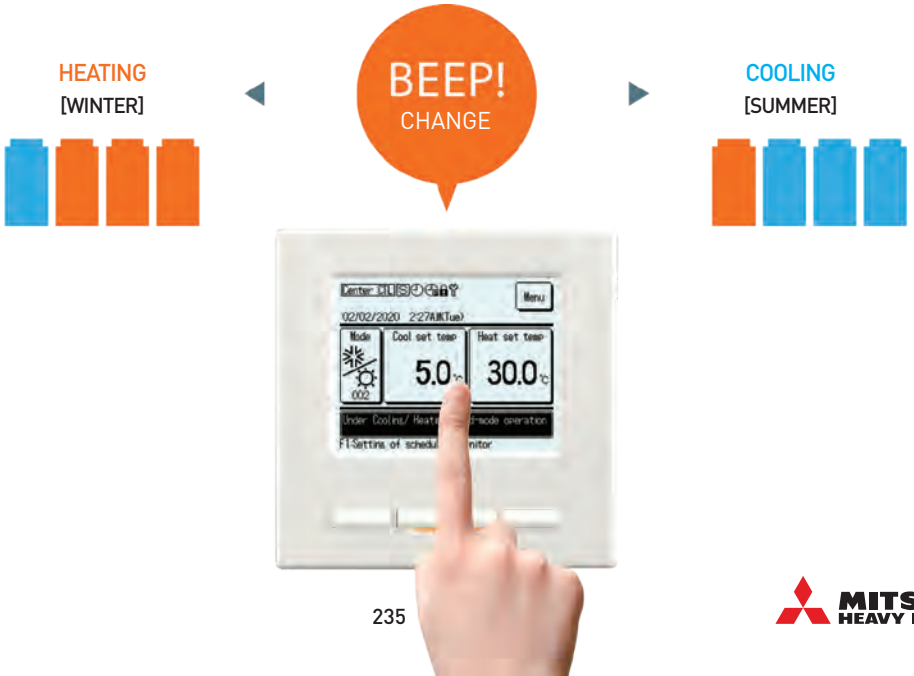
Controller unit (MCU-C-E) manages the units in cooling.

The cooling/heating mixing mode can be set according to the season. 6 different annual patterns can be set by programming the wired controller (RC-MCU-E).

Controller unit (MCU-C-E) manages the units in heating.

Controller MCU

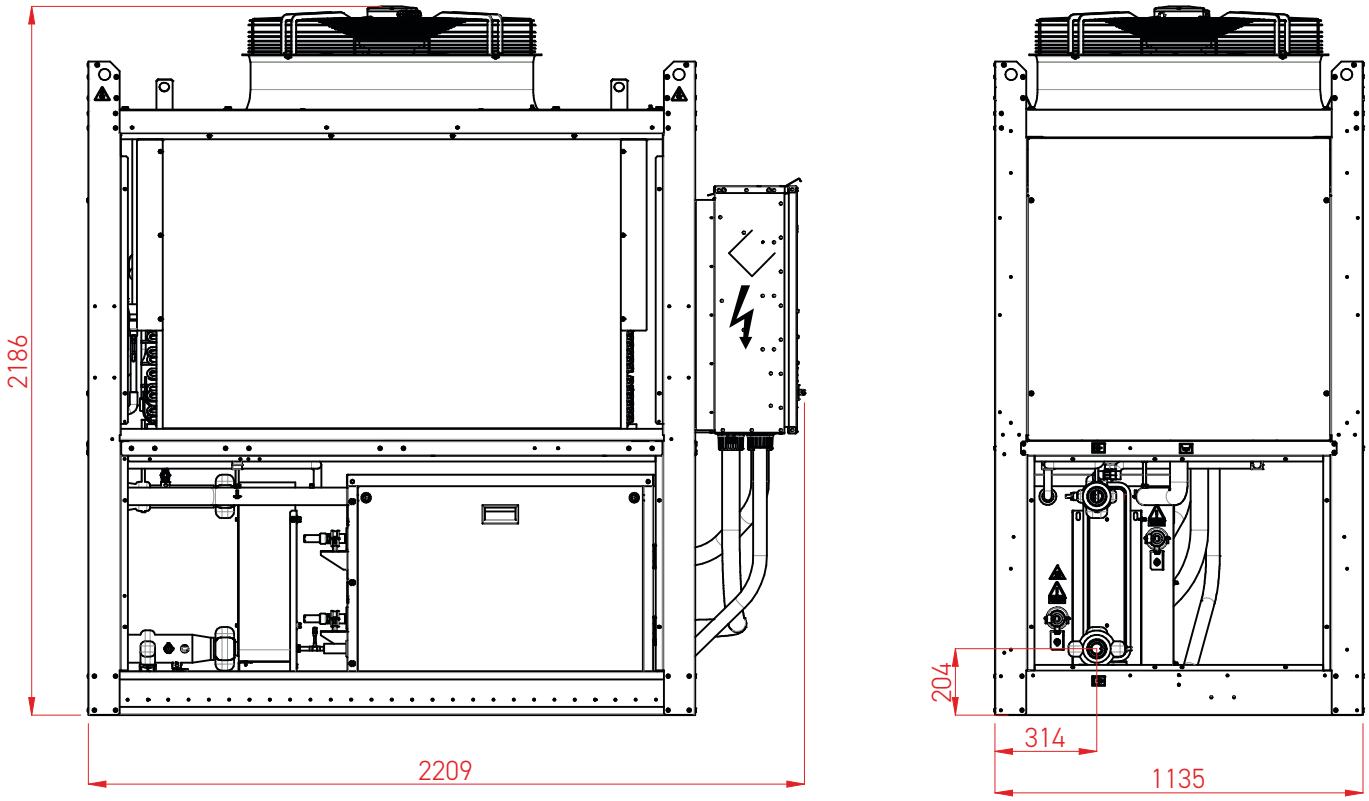
By adding an MCU controller, intelligent management of operating hours is possible, so that they balance out across all units in the group.



MITSUBISHI HEAVY INDUSTRIES

HYDROLUTION PRO

MCUS 5001 VHE-W



All measurements are expressed in mm.
The indicated dimensions are valid for all models.

50 kW models	MCUS 5001 VHE-W	Without pump
	MCUS 5001 VHE-W1	Integrated LP pump
	MCUS 5001 VHE-W1A	Integrated LP pump + buffer tank
	MCUS 5001 VHE-W2	Integrated HP pump
	MCUS 5001 VHE-W2A	Integrated HP pump + buffer tank

FUNCTIONALITY	APPLICATIONS	ADVANTAGES FOR PROFESSIONALS	ADVANTAGES FOR CUSTOMERS
• underfloor heating • fan coil heating • high efficiency radiator • heating • cooling	• condominium • office building • shopping center	• installation flexibility • low environmental impact • modular solution up to 1000 kW	• very high performance • long-term reliability • when using Hot Water or Q-ton for ACS, possibility of eliminating methane altogether • low management costs

TECHNICAL DATA

HYDROLUTION PRO

Outdoor unit model				MCUS 5001 VHE-W
Heating	Rated power	A7//W35	kW	50.00
	Power input			12.30
	Performance coefficient		COP	4.07
	Rated power	A7/W45	kW	47.00
	Power input			13.50
	Performance coefficient		COP	3.48
Cooling	Rated power	A35//W18	kW	50.00
	Power input			12.90
	Energy efficiency		EER	3.87
	Rated power	A35//W7	kW	44.00
	Power input			15.10
	Energy efficiency		EER	2.91
Seasonal data (Heating)	Prated @ -10°C	W35	kW	32.10
	Seasonal performance coefficient		SCOP	4.58
	Seasonal energy efficiency (ns)		%	180
	Energy efficiency class		-	A+++
	Annual energy consumption		kWh/y	14439
Operating range	Outdoor air temperature	Heating & DHW	°C	-20~43
		Cooling		-15~43
	Delivery water temperature	Heating & DHW	°C	25~55
		Cooling		4~30
Refrigerant circuit data	Refrigerant type (GWP)			R32 (675)
	Q.ty of precharge (tons CO2)		kg (t)	6.7 (4.523)
	Refrigerant control system			Electronic expansion valve
	Compressor		type	Scroll / DC motor
Hydraulic data	Water/freon heat exchanger		type	Braze-welded plates
	Water flow rate	Min~Max	m³/h	3~13.8
	Pressure drops	Cooling	kPa	37.6
		Heating		44.5
	Water connections		type	Victaulic
	Pipe diameter	In/Out	inch	2" (DN50)
	System water volume	Min	L	1276
	Operating pressure (system)	Max	bar	4
Electrical data	Power supply		V/Ph/Hz	400/3Ph+N/50
	Maximum current		A	33
	Power cable (recommended)		type	5x10 mm²
Product specifications	Fan	Type	q.ty	Axial / EC Motor
		Air flow	m³/h	15600
	Sound power level		dB(A)	88
	Sound pressure level (a 1 m)		dB(A)	68.5
	Dimensions	LxDxH	mm	2209x1135x2186
	Weight	Net	kg	531
	Control (included)			RC-MCU-E
Models with optional parts	With circulation pump	Low prevalence (LP)		MCUS 5001 VHE-W1
		High prevalence (HP)		MCUS 5001 VHE-W2
	With inertial tank1 + pump	Low prevalence (LP)		MCUS 5001 VHE-W1A
		High prevalence (HP)		MCUS 5001 VHE-W2A
Specifications optional parts	LP pump head		m	17
	HP pump head		m	27
	Inertial tank volume		L	180
	Expansion vessel volume		L	8

1. Includes expansion vessel.

The data reported above refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

KXZ2 HEATING

KXZ2 HEATING FOR HEATING RESIDENTIAL AND COMMERCIAL BUILDINGS

COP 4.20
Energy efficiency with COP up to 4.20

A++
Energy efficiency class

-20°C
Outdoor air minimum operating limit

55°C
Delivery water temperature water only

KXZ HEATING - HYDRONIC MODULE

THE HYDRONIC MODULE FOR THE PRODUCTION OF HOT WATER CONNECTED TO THE KXZ SYSTEMS

The HMU KXZ hydronic module is a unit designed and distributed by Mitsubishi Heavy Industries to provide winter heating for residential and commercial buildings.

HMU KXZ is an indoor unit that can be connected to the outdoor units of the KXZ system, thanks to which it is possible to produce hot water up to a temperature of 55°C for heating.

Through the use of this hydronic module, the KXZ system can entirely replace traditional heating systems, avoiding the construction of the heating plant and the flue and the costs relating to the supply of methane gas. Therefore the KXZ system becomes a complete and even more flexible system, adapting to different installation needs.

A SOLUTION THAT REDUCES CO2 EMISSIONS ON SITE AND GUARANTEES HOT WATER PRODUCTION WITH HIGH ENERGY EFFICIENCY

The system can be used in two different ways:

a) exclusively with HMU indoor units connected to the system (water only application);

b) with indoor air-to-air units and HMU units coexisting in the same system (mixed application).

Distribution within the rooms can be assigned to radiant panels, fan coils and air heating units.

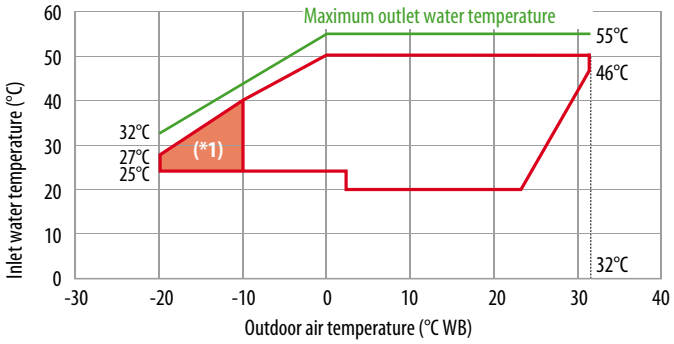
HMU UNIT

PARTS THAT MAKE UP THE HYDROMODULE

The Hydromodule is composed of the following parts:

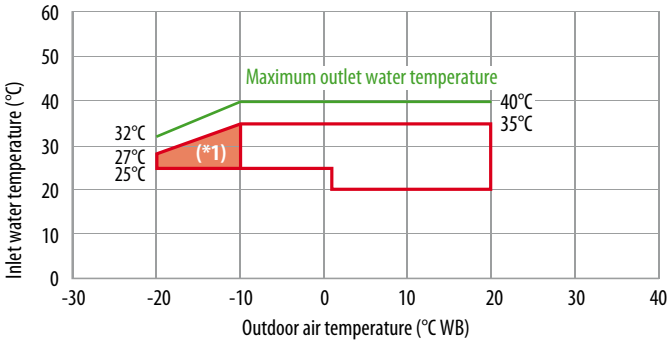
Electric control box	Plate heat exchanger	Circulation pump
HMU-kit	14 kW: V26Hx26 28 kW: V26Hx50	14 kW: 80kPa 28 kW: 90kPa

RANGE OF USE OF HMU IN WATER ONLY MODE



(*1) In the highlighted area, operation is possible with some limitations.

RANGE OF USE OF HMU IN MIXED MODE



(*1) In the highlighted area, operation is possible with some limitations.

IMPORTANT!

In case of cold start-up of the system for the first time in winter, it is advisable to prepare the hydraulic connections for an additional electric heater to be used to bring the water to the minimum expected temperature, based on the outdoor temperature. This way, if necessary, the heater can be installed and dismantled after start-up.

HMU UNIT

PERFORMANCE

Indoor unit model				HMU 280 KXZE1
Outdoor unit model				**FDC 280 KXZE2**
Heating	Rated power	A7//W35	kW	25.20
	Power input			6.00
	Perfomance coefficient		COP	4.20
	Rated power	A7/W45	kW	23.15
	Power input			6.90
	Perfomance coefficient		COP	3.36
	Rated power	A7/W55	kW	23.00
	Power input			8.40
	Perfomance coefficient		COP	2.74
	Nominal water flow rate		L/min	80
	Seasonal energy efficiency (ηs)	35	%	151
	Energy efficiency class	35	-	A++

TECHNICAL FEATURES

Model				HMU140 KXZE1	HMU 280 KXZE1
Heating	Max capacity		kW	14.00	28.00
Operating range	Outdoor air temperature	Water only	°C	-20~32	
		Mixed use		-20~20	
	Delivery water temperature[1]	Water only	°C	25~55	
		Mixed use		25~40	
Hydraulic data	Water flow	Min ~ Max	L/min	20 ~ 40	24 ~ 80
	Heat exchanger		Type	Brazed plates	
	Circulation pump			Included	
	Pump static pressure		kPa	98	80
	Expansion vessel			Not included	
	Water connections size		inches	R1-1/2"	
	Safety valve		bar	6	
Electrical data	Power supply		Ph-V-Hz	1ph-220~240V-50Hz	
	Maximum current		A	1.54	1.54
	Power input	Max	kW	0.36	0.36
Product specifications	Dimensions	HxLxD	mm	955(+110)x550x354	
	Weight	Net	kg	46	48
	Sound pressure level	Max	dB(A)	27	31
	Sound power level	Max	dB(A)	46	49
	Refrigerant pipings	Liquid - Gas	inch (mm)	ø3/8"(9.52) - ø5/8"(15.88)	ø3/8"(9.52) - ø7/8"(22.22)
Control (not included)	Wired control			RC-EX3H	

1. For project specifications, see the field of application in detail.

Q-TON

Q-TON
DHW FROM FREE NATURAL ENERGY

Q-ton systems are the only ones on the market that use R744 gas capable of working on low temperature heating systems and having a seasonal energy efficiency class of A+. These systems, being ECO friendly, are attentive to the possible risks associated with the introduction of climate-altering gases into the atmosphere and, in order to avoid the possible leakage of gas, are equipped with leak control sensors.

R744

REFRIGERANT GAS R744 (CO2)

90°C

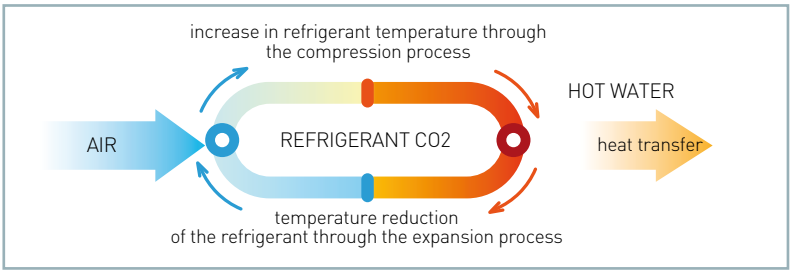
DOMESTIC HOT WATER PRODUCTION UP TO 90°C

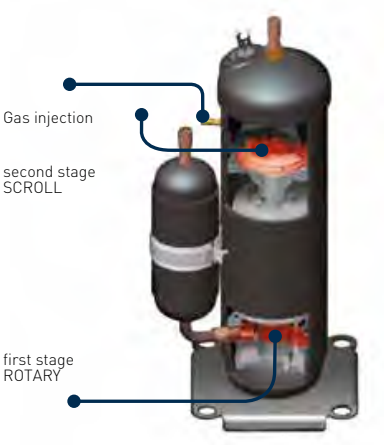
HEAT PUMP KEYMARK
Certificate of Approval for the Heat Pump KEYMARK Scheme

Q-TON - CO2 HEAT PUMPS

GRS two-stage compressor

Q-ton, thanks to the action of the two-stage compressor, allows you to produce a high quantity of energy for heating or for the production of domestic hot water. The nominal thermal power generated is stable and constant even as the external temperature decreases.





LCD touch panel

The management and main parameters of the system can be controlled both from the LCD wire control and remotely via MODBUS protocols. The system allows, via the wired control, to independently select the system's operating priority (heating or domestic hot water).

The circuit flow temperatures can be set either fixedly or by selecting the climatic curve.

EASY TO USE

LCD panel with illuminated buttons.
Large 2.8 inch display.
Backlight.

PEAK-CUT TIMER

Possibility of setting a DHW production schedule based on peak demand.

DAYLIGHT UPDATE

The system automatically adapts to daylight saving time allowing easy programming.

SCHEDULING

It is possible to carry out daily, weekly and annual programming.

THE TANK

It is always possible to manually fill the tank.

CLIMATE CURVE

In heating mode, it is possible to set a customizable climate curve that automatically determines the flow temperature based on outdoor temperature conditions.

RC-Q1EH2
FOR Q-TON

Q-TON - DOMESTIC HOT WATER PRODUCTION

Q-ton heat pumps absorb "free" heat from the outside air and amplify it to generate hot water quickly and efficiently, up to 90°C, without the need for additional electrical resistance.

They reduce operating costs and carbon emissions by 40 to 75% compared to a traditional system. They are suitable for installation in new buildings and do not require a backup system for heating. In existing buildings, with traditional heating systems, they are applicable only in the domestic hot water production function.

DOMESTIC HOT WATER

The installation of a Q-ton system is ideal for replacing old heating systems such as boilers, because it produces DHW based on the actual capacity required by the user.

PERFORMANCE

Operation down to -25° C outdoors

With DHW production up to 90° C

YIELD

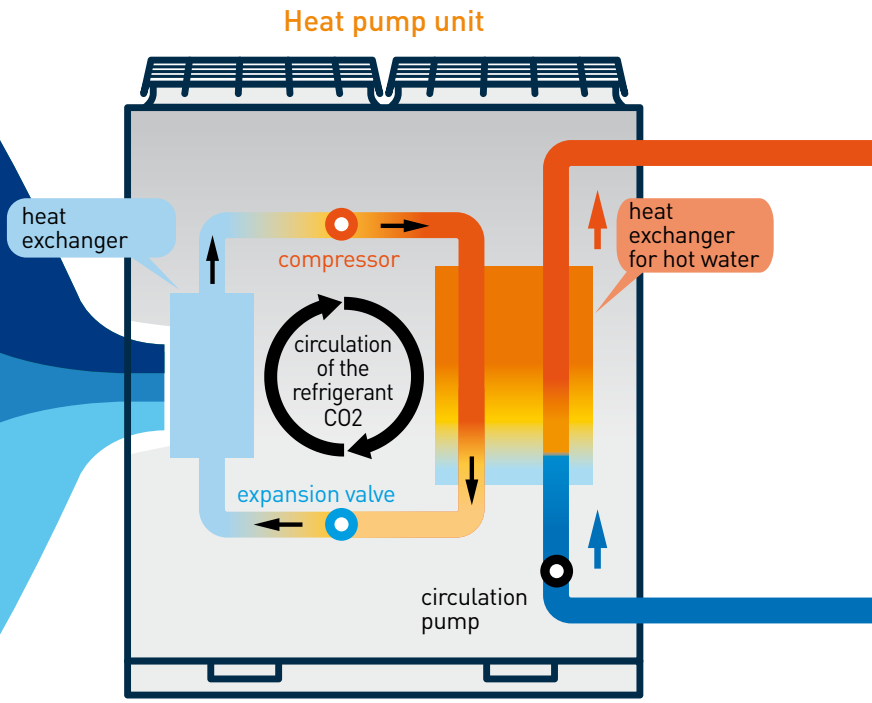
100% down to -7° C

Maintenance of nominal power output at 100% down to -7° C

EFFICIENCY

COP 4.3

The highest value on the market



90°C

Reachable temperature

16

Connectable outdoor units

480

The maximum modular power in kW

HOW DOES IT WORK

Q-ton systems use a cold refrigerant coil that absorbs heat from the outside air and, using the unique 2-stage compressor, compresses the refrigerant to increase its temperature. The heat exchanger then uses the heat generated to produce domestic hot water.

POWER AND DESIGN FLEXIBILITY

It is possible to manage up to 16 outdoor units by using a single control.

The maximum power that can be achieved by a combined system is 480 kW.

These powers make the installation of a Q-ton system suitable in large newly built condominiums, or in super-condominiums with district heating systems pre-existing.

SENSORS IN TANKS

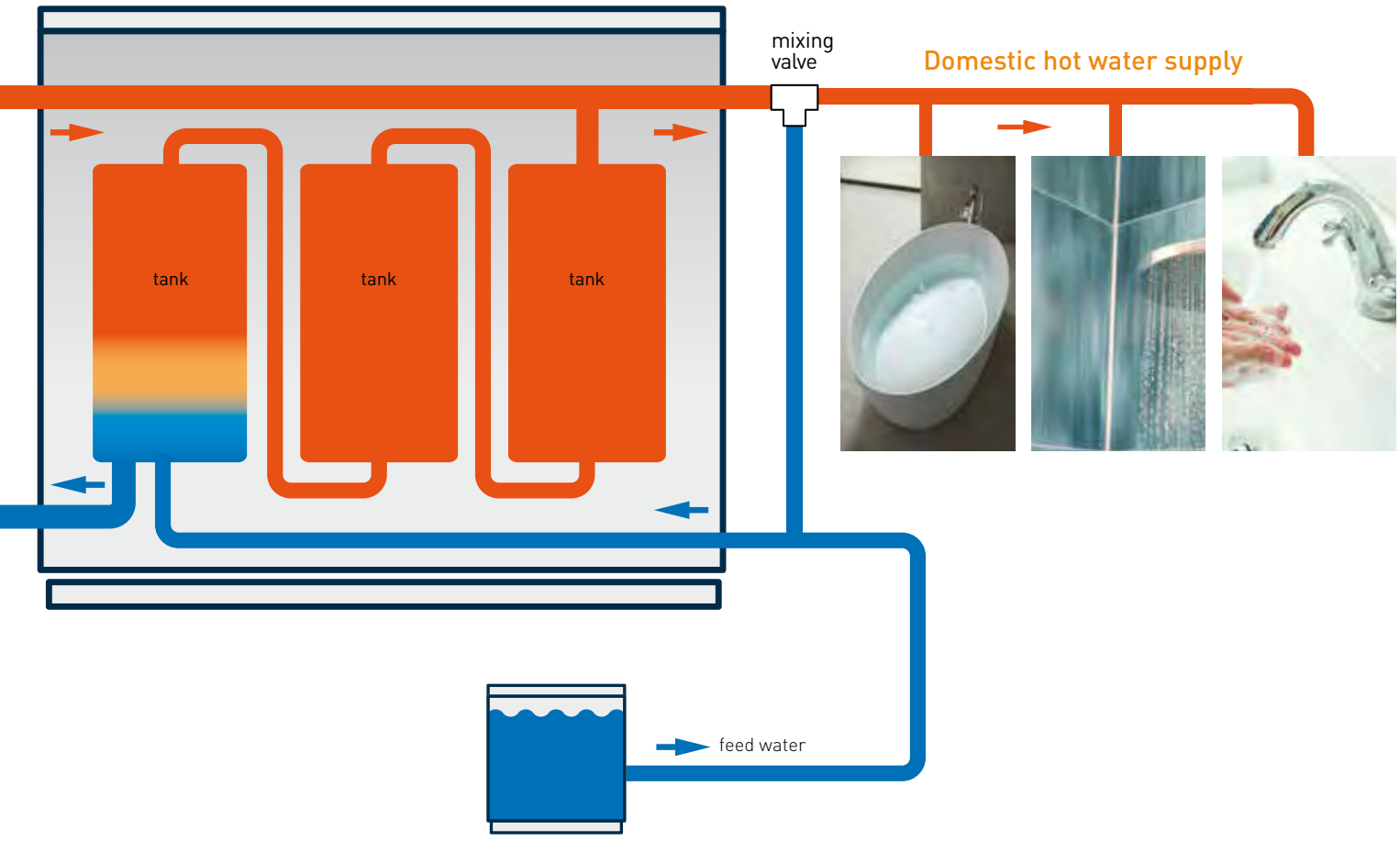
Each storage tank has five compartments in which temperature sensors can be inserted to detect the volume (in %) of hot water contained in the tank at a given time.

PROGRAMMING

The programming of the control system is made to maintain specific volumes of hot water at different times of the day, based on the user's needs.

REDUCED COSTS

Further savings for the user are given by the possibility of heating and storing water during times when electricity rates are lower.



MITSUBISHI HEAVY INDUSTRIES

Q-TON DHW

16 UNITS CONTROLLED BY A SINGLE DEVICE

Up to 480 kW of capacity by connecting 16 units of 30 kW each.The extremely flexible modular configuration allows the installation of Q-ton DHW production, adapting the power of the system to different application contexts. The entire system can be managed from a single control device.

THE BEST OF SAIE INNOVATION 2016 VERSO IMPATTO ZERO TOWARDS ZERO IMPACT

Depending on the applications and installation needs, a module from 30 kW it can produce 17,000 liters of DHW per day.

Model				ESA30EH2-25
Nominal data	Power output (DHW production)	A16/W65[1]	kW	30
	Power input			7.0
	Performance coefficient		COP	4.30
Seasonal data	Test cycle profile			XXL
	Energy efficiency (nwh)		%	114
	Energy efficiency class			A
	Annual energy consumption		kWh/y	1909
Operating range	Outdoor air temperature		°C	-25~43
	Delivery water temperature			60~90
Refrigerant circuit data	Refrigerant		type (GWP)	R744 (1)
	Quantity (tons CO2)		kg (t)	8.5 (0.00)
	Compressor		type	Double stage - DC Inverter
Hydraulic data	Heat exchanger		type	Shell and tube
	Circulation pump	Static pressure	m (kPa)	5 m (49 kPa) @ 17L/min
	Water connections	Size	Inches	3/4" (DN20)
	Operating pressure	Min/Max	bar	1/5
Electrical data	Power supply		Ph-V-Hz	3Ph-380~415V-50Hz
	Maximum current		A	21
	Power cable (recommended)		type	5x6 mm²
Product specifications	Fan	Air flow	m³/h	15600
		Static pressure	Pa	50
	Sound power level		dB(A)	70
	Dimensions	LxDxH	mm	1350x720x1690
	Weight	Net	kg	375
Controls	Wired control	Not included		RC-Q1EH2
	Modbus	Optional		RCI-MDQE2

The data reported above refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.1. Water conditions: inlet 17° C, outlet 65° C.

M-ACCESS

RM-CGW-E2

Management interface via M-ACCESS: this is a remote monitoring system for MHI products that adopts Cloud-type Gateway equipment and which allows centralized management of air conditioning and **DHW production** systems from multiple remote locations using the Internet of Things (IoT).

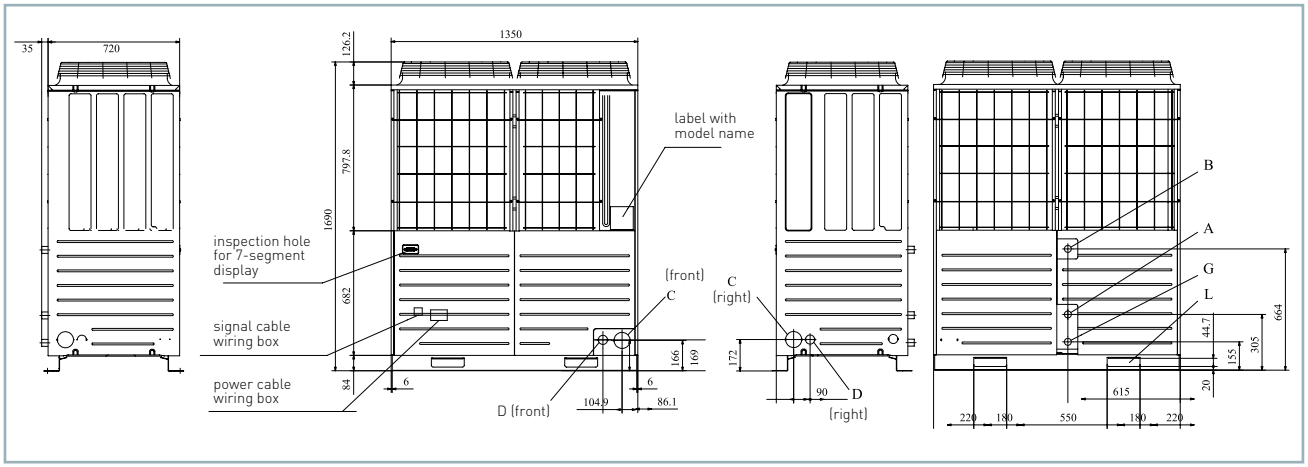
You can easily monitor and manage the status of external and internal drives via the Internet using, for example, a PC or tablet.

Some of the available functions are as follows:

- Real-time monitoring of machines.
- Management of operating parameters (on/off, mode, temperature and fan speed).
- Electricity consumption and alarm notifications via email.

All MHI residential, commercial, VRF and Q-ton products (with the necessary interface cards) can be connected to this new and innovative system.

ESA30EH2-25 DIAGRAMS AND DIMENSIONS



Item	Description	
A	Water inlet	RC 3/4 (copper tube 20A)
B	Hot water outlet	RC 3/4 (copper tube 20A)
C	Connection lines' output between the heat pump and the tank	0 88 (or 0 100)
D	Power cables' input	0 50 (right, front) lower hole 40x80
G	Waste water pipe outlet	RC 3/4 (copper tube 20A)
L	Opening for movement	180x44.7

CONTROLS

CONTROLS

254 STANDARD REMOTE CONTROLS

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MITSUBISHI HEAVY INDUSTRIES

REMOTE CONTROLS

SRK ZTX/ZSX/ZS/ZR | SRF ZS/ZSX | SRR ZS

FUNCTIONS

- ON/OFF.
- Operating modes: auto, cooling, heating, dehumidifying and ventilation.
- Fan speed.
- HIGH POWER function.
- ECO function.
- SILENT function
  (not available on SRR models).
- Air distribution with vertical swinging of air outlet flaps
  (not available on SRR models).
- Air distribution with horizontal swinging of air outlet flaps
  (not available on SRR and SRF models).
- 3D AUTO function
  (not available on SRR and SRF models).
- NIGHT SETBACK function.
- Daily ON/OFF timer.
- Weekly Timer.
- SLEEP.
- ALLERGEN CLEAR function
  (not available on SRR models).
- Key lock.
- Settings' reset (ACL).
- Clock setting (TIME SETUP).
- MENU button
  (available only on models ZSX and ZS series).

SRK ZTL

FUNCTIONS

- ON/OFF.
- Operating modes: auto, cooling, heating, dehumidifying and ventilation.
- Fan speed.
- Air distribution with vertical swinging of air outlet flaps.
- Air distribution with horizontal swinging of air outlet flaps.
- 3D AUTO function.
- HIGH POWER function.
- ECO function.
- SILENT function.
- FUZZY AUTO function.
- ALLERGEN CLEAR function.
- Self Clean operation.
- NIGHT SETBACK function.
- Daily ON/OFF timer.
- Child Lock.
- LED brightness adjustment.

DETAIL OF THE CONTROL FUNCTIONS

- **HIGH POWER**: the unit runs at very high speed to quickly reach the temperature in the set cooling or heating mode.
- **ECO**: the set temperature will be automatically adjusted to avoid excessive cooling or heating.
- **SILENT**: reduction in the speed of the external fan and compressor.
- **3D AUTO**: automatic swinging of air outlet flaps (vertical and/or horizontal) according to the room temperature and to the set temperature.
- **NIGHT SETBACK**: prevents the room temperature from falling below 10° C.
- **SLEEP**: night-time dampening function.
- **ALLERGEN CLEAR**: activation of anti-allergenic filter.
- **MENU**: button to adjust the brightness of the indicators on the indoor unit, to select the AUTO OFF function, the CLEAN function and the PRESET function.
- **AUTO OFF**: if after 1 hour (settable from 1 to 2 hours by remote control) the environment continues to be free of people, the air conditioner stops operation and switches to "stand-by" mode.
- **CLEAN**: this function identifies the automatic mold sanitization program and can be performed at the end of the machine's operating cycle.
- **PRESET:** activation of the pre-set heating or cooling operating mode.

STANDARD CONTROLS

REMOTE CONTROLS

SRK ZSP | SKM ZSP

FUNCTIONS

- ON/OFF.
- Operating modes: auto, cooling, heating, dehumidifying and ventilation.
- Fan speed.
- HIGH POWER function.
- ECO function.
- Air distribution with vertical swinging of air outlet flaps.
- Daily ON/OFF timer.
- SLEEP.
- CLEAN function.
- Settings' reset (ACL).
- Clock setting.

OPTIONAL INDIVIDUAL CONTROLS

WIRED CONTROLS

WIRED CONTROL WITH LCD DISPLAY RC-E5

Wired remote control with LCD display: this display is large and high-contrast for excellent display of information.
The wired remote control is capable of controlling up to 16 indoor units.

Main functions:

- Standard weekly timer.
- Built-in temperature sensor.
- Settable temperature ranges.
- Data saving function.
- 4 fan speeds.
- Control for adjusting the static pressure (for FDU and FDUM models).

SIMPLIFIED WIRED CONTROL RCH-E3

Particularly suitable for use in hotels and small offices, it enables the selection of 3 different ventilation modes.

The simplified wired remote control is capable of controlling up to 16 indoor units.

Simple to use, it has the following essential buttons:

- On/Off.
- Mode.
- Temp. setting.
- Fan speed.
- Built-in temperature sensor.

MITSUBISHI HEAVY INDUSTRIES

DESIGN WIRED CONTROL

MULTILANGUAGE DESIGN CONTROL RC-ES1

Design wired control with color LCD display and touch buttons: compact and without frames, this control is particularly suitable for integrating into environments such as hotel rooms.

Through a dedicated smartphone app, through which it is possible to connect up to 5 devices to the control at the same time, it is possible to have complete access to all the functions of the control and also makes configuring the units extremely simple.

Finally, the use of this app allows you to obtain data regarding the operation of the machine (electricity consumption based on the operating mode, error reporting, etc.).

The wired controller can control up to 16 indoor units.

Simple to use, the command has the following main functions:

- compact only 86x86 mm;
- Bluetooth connection;
- on/off;
- operating modes: heating, cooling, ventilation, dehumidification and automatic;
- fan speed;
- high power function;
- timer;
- weekly timer via App only;
- airflow orientation;
- built-in temperature sensor.

Air conditioning control via M-Air PRO app. Downloadable from Google Play and App Store.

reddot winner 2025

RC-ES1 received the Gold Award at the A' Design Award and the Red Dot Design Award 2025.

WIRELESS CONNECTION

- Remote control with Bluetooth technology.
- Easy setup of indoor units.
- Notifications about abnormal conditions and operating data are sent from the control to the smartphone.

INTUITIVE DISPLAY

The screen conveys information clearly and immediately.

SMARTPHONE CONTROL

You can select and change settings for multiple rooms directly from your smartphone.

EASY INSTALLATION WITH THE NEW CASE

The case is divided into two parts. One part is fixed to the wall and the other is easily applied to it by interlocking.

OPERATIONAL SETTINGS

- Operating mode.
- High power.
- Fan.
- Timer.
- Air flow direction.

CONNECTIVITY

- Bluetooth.
- Pair device.
- QR code app.

DISPLAY SETTINGS

- Brightness.
- Lighting time.
- Sound alerts.

ON-SCREEN INFORMATION

- Temporary stop.
- Off- Forced thermo.
- Fan mode.
- Cooling test.
- Static pressure adjustment.
- Dew drop prevention.
- "Away from home" operation.
- High power.
- Eco mode.
- Temperature change.
- Preheating.
- Preparing heating.
- Defrost in progress.
- O.U. in silent mode.
- Motion sensor active.
- Anti-draft control.
- On-demand active.
- Filter cleaning.
- Back-up function active.
- Back-up control error.
- Periodic inspection.
- Timer on setting.
- Timer off setting.
- Weekly timer.
- Sleep timer.

TOUCH SCREEN CONTROLS

MULTILANGUAGE TOUCH SCREEN CONTROL RC-EX3A

- Touch screen wired remote control with LCD display.
- Large size: 3.8" with backlighting.
  Simple 3-button interface.
  All settings can be made via the touch screen panel.
- Possibility of selecting up to 9 languages.

ENERGY SAVING FUNCTIONS

- Off timer.
- Peak-cut timer.
- Automatic temp setback.
- Weekly timer.
- Set On/Off timer by hour.
- Set On/Off timer by clock.

FUNCTIONS THAT GUARANTEE COMFORT

- Individual control of air outlet flaps.
- Silent mode.
- Temperature maintenance function.
- Restoring the last set temperature.
- 0.5° C temperature increase setting.

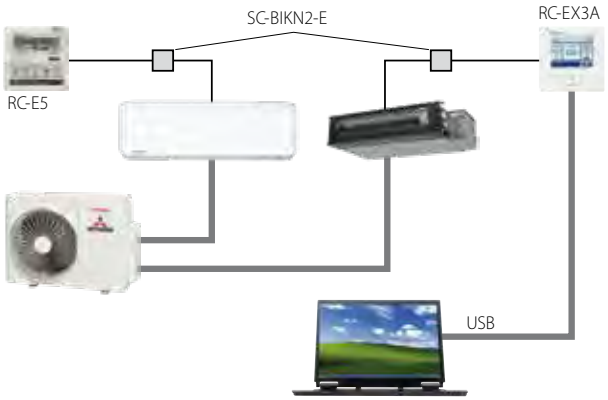
SERVICES

- Error code display.
- Filter cleaning signal.
- Next display data.
- Contact company display.
- USB connection (mini-B).

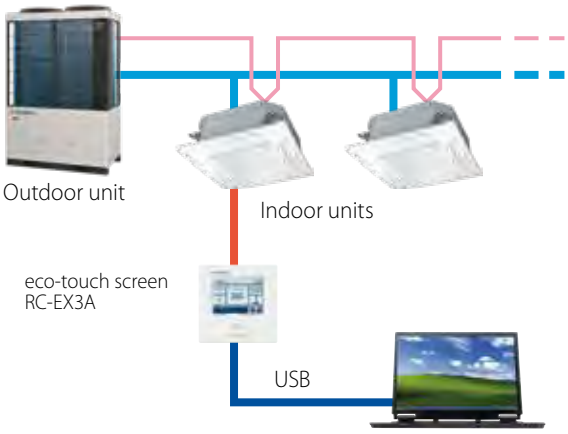
ADVANTAGES

- LCD display contrast setting.
- Backlighting.
- Filter icon.
- Sound control.
- Outdoor unit silent mode.
- Summer time setting.
- "Home leave" mode.
- Indoor and outdoor temperature display.
- Heating stand-by display.
- Defrost operation display.
- Modes: auto, cooling, heating.
- Display ºC / ºF.
- Administrator settings.
- Room name setting.
- Anti-draft panel control (for FDT and FDTC models only).

RC-EX3A control via software



RC-EX 3A control can be controlled via computer by using a special software.



RC-EX 3A control can be controlled via computer by using a special software.

REMOTE CONTROL KIT

RCN-KIT4-E2

FDUM, FDU, FDTQ, FDQS, FDUT, FDUH, FDFL, FDFU, FDF, FDU-F, SAF-DX

RCN-TW-E2

FDTW

RCN-T-5BW-E2
RCN-TC-5AW-E3

FDT, FDTC

RCN-T-5BB-E2

FDT

RCN-TS-E2

FDTS

RCN-K-E2

FDK

RCN-K71-E2

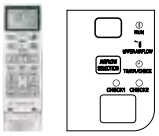
FDK71KXZE1

RCN-E-E3

FDE

RCN-FW-E2

FDFW



CONTROL DEVICES WITH SUPERLINK II

	Type		Model	nb. of connectable I.U.
Individual controls	Wired control		RC-EX3A; RC-EXZ3A; RC-E5; RCH-E3	16
	IR remote control		RCN-KIT4-E2; RCN-T-5BB-E2;RCN-T-5BW-E2; RCN-TC-5AW-E3; RCN-TW-E2; RCN-TS-E2; RCN-K-E2; RCN-K71-E2; RCN-E-E3; RCN-FW-E2	16
Centralized control panel	Keyboard		SC-SL1N-E	16
			SC-SL2NA-E	64
	PC Windows interface	Touch screen	SC-SL4-AE3	128
			SC-SL4-BE3	128
	PC Windows interface BMS interface	WEBnet BACnet	SC-WBGW256	256 (128x2)
	BMS interface	Lonworks	SC-LGWNB	96 (48x2)

REMOTE CONTROL KIT

SC-ADNA-E INTERFACE BOARD

This interface board makes it possible to connect the indoor units to the Superlink II network, thus ensuring they can be managed using the SC-SL2N-E device and other central controllers.

Functions:

- transmission of Superlink II data bus information directed towards the indoor units connected;
- ability to block the settings of the single indoor units from a centraliser (remote);
- transmission of the signal showing any faults with the indoor units connected to the Superlink II device, displaying an error code.

SUPERLINK II CONNECTION

Model	Interface	Controls
SRK ZSX SRK ZS SRK ZTL SRK ZTX SRK ZR SRF ZS, ZSX, SRR ZS,	SC-BIKN2-E SC-ADNA-E	RC-E5 RC-EX3A
FDTC VH1, VH FDT VH FDUM VH FDU VH FDE VH FDF VH	SC-ADNA-E	

SC-BIKN2-E OPTIONAL KIT

This interface board makes it possible to create a 2-wire X, Y network on the SRK units, enabling management using the RC-E5 wired remote control. Furthermore, using the SC-ADNA-E card connected directly to the SC-BIKN2-E card, it is possible to connect the unit to the Superlink II network and centralise management of SRK units using remote controls for all functions. The interface card is contained in a box fastened to the wall measuring 120x135x29 mm. The card is also equipped with a CnT connector, which enables the SRK units to exchange the digital inputs/outputs with an external control.

WIRED CONTROL CONNECTION

Model	Interface	Controls
SRK ZSX SRK ZS SRK ZTL SRK ZTX SRK ZR SRF ZS, ZSX, SRR ZS,	SC-BIKN2-E	RC-E5 RC-EX3A
FDTC VH1, VH FDT VH FDUM VH FDU VH FDE VH FDF VH	not required	

WI-FI CONTROL

WI-FI CONTROL SYSTEM FOR SRK, SRR, SRF UNITS

Thanks to the Smart M-Air app it is possible to have the remote control of your air conditioner always with you, conveniently on your smartphone and/or tablet.

The Wi-Fi control allows you to set the ideal climate in your home, even while away from home, thus generating the right comfort when you come back.

EXAMPLE OF SCREEN

Available for iOS smartphone and tablet

Available for Android smartphone and tablet

MAIN FUNCTIONS OF THE APP

- On & Off control.
- Adjustment of the set temperature.
- Selection of operation mode.
- Fan speed.
- Flaps' control.
- Room temperature control.
- Multilanguage.
- Weekly timer with 6 daily settings.
- Yearly timer with specific day settings.
- High/low room temperature warning function; temperature limits can be set to be informed when they are exceeded inside the air-conditioned room.
- High and low temperature control function: by this function the system automatically reactivates operation once the set temperature limits are exceeded.
- Cooling only operation block.
- Consumption control function in kW/h with monthly graph and economic quantification of consumption in euros.
- Error detection and description.
- Auto updates of the App.

WI-FI CONTROL

INWFIUNI001I000 Universal Wi-Fi interface for all models of indoor units
INWFIMHI001R100 Wi-Fi interface for Light Commercial, PAC & VRF indoor units (excluding SRK models)

HOME AIR CONDITIONING CONTROL, EVEN FROM OUTSIDE YOUR HOME

Termal presents the new Wi-Fi Intesis AC Cloud module which allows access to remote air conditioner control through a downloadable smartphone app.

Thanks to the Intesis AC Cloud App, it is possible to manage the main operating parameters from your home with a simple Wi-Fi home connection, or away from home, with a simple Internet connection.

The Intesis AC Cloud App allows you to individually and uniquely control different internal units, effectively regulating the air conditioning of multiple rooms.

EXAMPLE OF SCREEN AND CONNECTION DIAGRAM

Available for iOS smartphone and tablet

Available for Android smartphone and tablet

MAIN FUNCTIONS OF THE APP

- On &Off control.
- Adjustment of the set temperature.
- Selection of operation mode.
- Fan speed.
- Flaps' control.
- Room temperature control.
- Timer.
- 26 different languages.
- Anti-frost mode setting for overheat.
- Error detection and description.
- Auto updates of the App.
- Filter cleaning.
- Calendar.
- 3 mobile devices can control a single unit.
- Room presence detector.
- Energy Saving function.

COMPATIBLE WITH THIRD-PARTY VOICE CONTROLLED SYSTEMS

works with the Google Assistant

WORKS WITH amazon alexa

works with Siri Shortcuts

connect with IFTTT

CENTRALIZED CONTROLS

CENTRALIZED CONTROL PANEL SC-SL4-AE3/BE3

MHI introduces SC-SL4-AE3/BE3, the new centralized control with 9" interactive (Full Color Touch) LCD display.

Users can perform monitoring, programming and maintenance from the panel.

It can control up to 128 indoor units.

Users can connect with a PC or tablet through an Internet Explorer (IPad, Windows) WEB interface.

ALL THE FUNCTIONS OF THE NEW VERSION

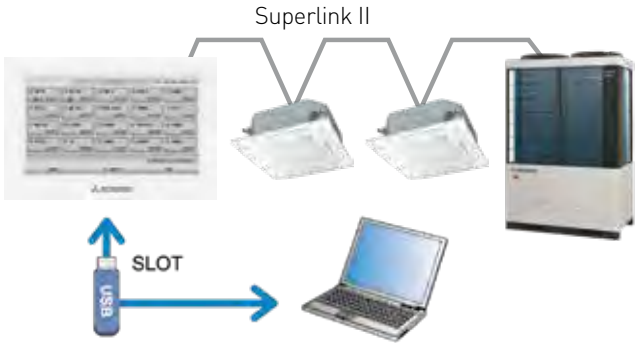
The indoor units can be programmed, monitored and interrogated individually, in groups, and in blocks of groups with the following functions:

Control	Monitoring	Scheduling	Management/Service
ON/OFF	Operating status	Annual scheduling	Definition of blocks
Modes cool/heat/fan/dry/Auto	Mode	Daily scheduling	Groups' definition
T° setting	Temperature settings	Special days' scheduling	Unit's definition
Permitted/prohibited operations	Ambient temperature	Seasonal scheduling	Date & Hour setting
Fan speed	Permitted/prohibited operations		Alarm history
Air direction	Fan speed		Consumption calculation period
Filter signal reset	Air direction		Cumulative operating time
Request control (3 steps)	Filter signal		Energy consumption
Emergency stop	Maintenance		
	Request control		

ELECTRICAL CONSUMPTION CALCULATION FUNCTION (SC-SL4-BE3 ONLY)

SC-SL4-BE3 is able to monitor electrical consumption in kW/h for each indoor unit in a single group on the Superlink system, using a USB memory.

	SC-SL4-BE3
Data export method	USB
Calculation software	Included
Number of inputs for pulse detector (wattmeter)	8
Connectable units (MAX)	128 (Superlink II)



Model		SC-SL4-AE3/SC-SL4-BE3
Ambient temperature	°C	0°C~40°C
Power supply		1-Phase 100-240V 50/60Hz
Consumption	W	18
Dimensions (H x L x P)	mm	172x250x23(+70)
Net weight	kg	2.00
Nb. of connectable I.U.	nb.	128 (Superlink II) / 144 (Supelink I)
LCD touch panel		LCD colori, 9"
Superlink input		1 (Superlink II) / 3 (Superlink I)

CENTRALIZED CONTROLS

CENTRALIZED CONTROL PANEL SC-SL2NA-E

The SC-SL2NA-E panel is connected to the Superlink II system via a non-polarised 2-wire cable. It enables the user to start up/stop and monitor up to 16 groups simultaneously, for a total of 64 units. It also monitors and controls the following functions for each unit, group of units or for the whole network: temperature setting, position of the louvers, operating errors. The number of units in operation can be seen on the LCD, as can those that require assistance. The timer facilitates the power on and power off cycles. The panel can be connected at any point in the Superlink II network, to both indoor and outdoor units, reducing the length of the wiring used for the connections.

CENTRALIZED CONTROL PANEL SC-SL1N-E

The SC-SL1N-E panel is connected to the Superlink II system via a non-polarised 2-wire cable. It enables the user to start up/stop and monitor up to 16 indoor units simultaneously. The number of units in operation can be seen on the special LEDs, as can those that require assistance. In the context of a Superlink II system, up to 12 SC-SL1N-E panels can coexist, for a total of 128 indoor units controlled.

DEVICES FOR CONTROLLING THE SUPERLINK II NETWORK

LONWORKS GATEWAY SC-LGWNB

This platform enables users to connect and centrally control the indoor units, converting the LonWorks communication data into Superlink II communication data. Up to 96 units can be controlled, the highest number possible for the LON systems on the market.

WEB GATEWAY + BACNET GATEWAY SC-WBGW256

This platform makes a simple monitoring system possible for small and medium-sized installations: it includes metering functions and enables users to control up to 256 indoor units (96 groups - 128 indoor units on 2 Superlink II networks).

Safe and easy: all you need is Internet Explorer, without using any additional software. Using a filter on the IP address, the system lets users select and limit access to the platform through 3 different levels of account authentication.

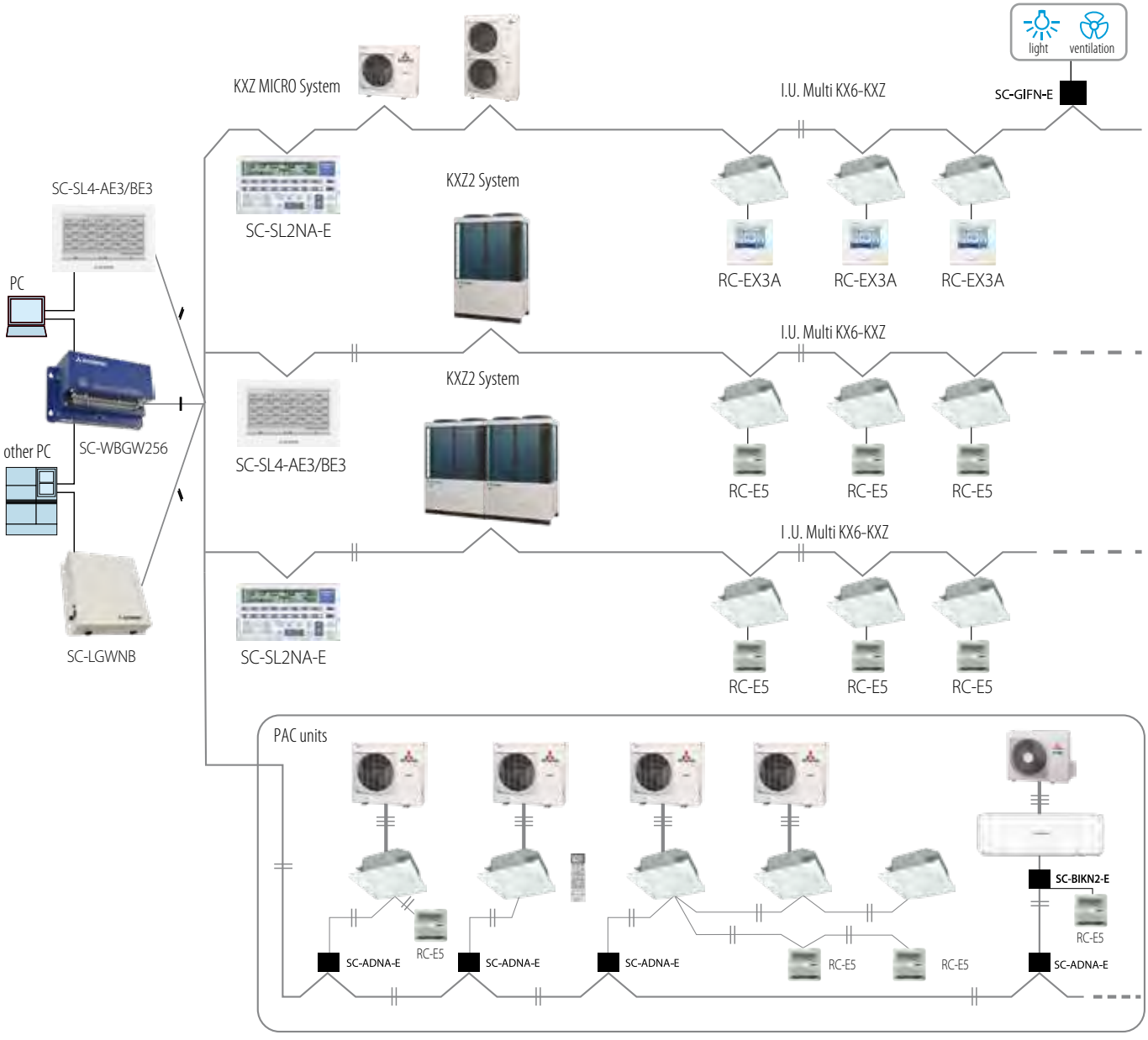
Integrated metering function.

SUPERLINK II

THE ADVANCED FAST DATA TRANSMISSION SYSTEM

Superlink II is able to connect up to 128 indoor units and 32 outdoor units on a network.

It is a centralized control system that meets the different needs of large, medium and small buildings. The implementation of the Superlink II system greatly reduces installation costs by reducing the size of the wiring area using a non-polarised 2-wire cable. In order to harmonise air conditioning and its management, Mitsubishi Heavy Industries also offers a wide range of controls and instruments for a reliable control system. Easy access can thus be made for computerised management of the building to be air-conditioned, guaranteeing the highest standard on the market in a fully affordable system.



MITSUBISHI HEAVY INDUSTRIES

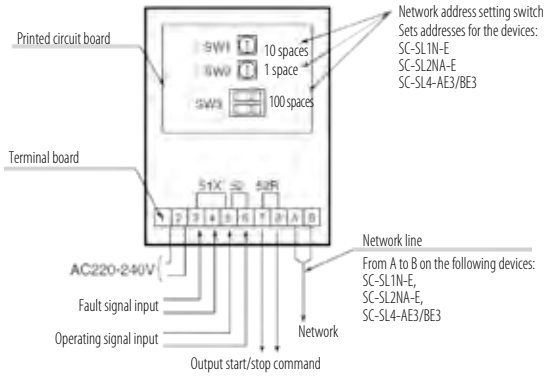
SUPERLINK II

OPTIONAL KIT SC-BIKN2-E

This interface card makes it possible to create a 2-wire X, Y network on units (SRK, SRR, SRF), enabling management using the RC-E5 wired remote control. Furthermore, using the SC-ADNA-E card connected directly to the SC-BIKN2-E card, it is possible to connect the unit to the Superlink II network and centralise management the units (SRK, SRR, SRF) using remote controls for all functions. The interface card is contained in a box fastened to the wall measuring 120x135x29 mm. The card is also equipped with a CnT connector, which enables the units (SRK, SRR, SRF) to exchange the digital inputs/outputs with an external control.

OPTIONAL KIT SC-GIFN-E

The SC-GIFN-E interface card connected to the centralised Mitsubishi SC-SL1N-E, SC-SL2NA-E and SC-SL4-AE3/BE3 control systems, lets you control the switching on and off of other equipment, including non-Mitsubishi devices (telephone dialler, home automation systems, etc.).



SCHEME OF USE OF DIGITAL INTERFACES

Superlink II connection

Model	Interface	Controls
SRK ZSX-S(T) SRK ZS-S(T) SRK ZR-S SRF ZMX-S SRR ZM-S SRR 25~60 ZM-S	SC-BIKN2-E SC-ADNA-E	RC-E5 RC-EX3A Centralized
FD unit (no KX)	SC-ADNA-E	Centralized

Wired control connection

Model	Interface	Controls
SRK ZSX-S(T) SRK ZS-S(T) SRK ZR-S SRF ZMX-S SRR ZM-S	SC-BIKN2-E	RC-EX3A RC-E5

M-ACCESS

RM-CGW-E2

Management interface via M-ACCESS: this is a remote monitoring system for MHI products that adopts Cloud-type Gateway equipment and which allows centralized management of air conditioning systems from multiple remote locations using the Internet of Things (IoT) .

You can easily monitor and manage the status of external and internal drives via the Internet using, for example, a PC or tablet.

Some of the available functions are as follows:

- real-time monitoring of machines;
- management of operating parameters (on/off, mode, temperature and fan speed);
- electricity consumption and alarm notifications via email.

All MHI residential, commercial, VRF and Q-ton products (with the necessary interface cards) can be connected to this new and innovative system.

CLEAN AIR UV-KIT AIR PURIFIYING DEVICE FOR DUCTED SYSTEMS

TMS-UV04

AN ALL-IN-ONE SOLUTION FOR ELIMINATING VIRUSES AND BACTERIA

The UV-C air purification device has the ability to modify the DNA or RNA of micro-organisms, preventing them from reproducing and thus being harmful.

UV-C light is able to inactivate 99.99% of viruses.

Use in ducted systems is recommended as it does not expose humans to UV-C light and allows disinfection and air purification.

The device technology is able to degrade numerous organic compounds by oxidation.

The filter attracts and retains moisture molecules that are naturally present in the air, capturing fine dust and oxides.

This process encourages faster decomposition of substances that are harmful to humans.

This product is therefore capable of:

- effectively eliminating micro-organisms that are harmful to human health, such as moulds and viruses;
- decomposing organic compounds present in the air such as benzene, formaldehyde, ammonia, ether, TVOC and other organic chemical compounds;
- eliminating unpleasant odours.

This device can be connected to ducted indoor units so that they only operate when the air conditioning system is switched on.

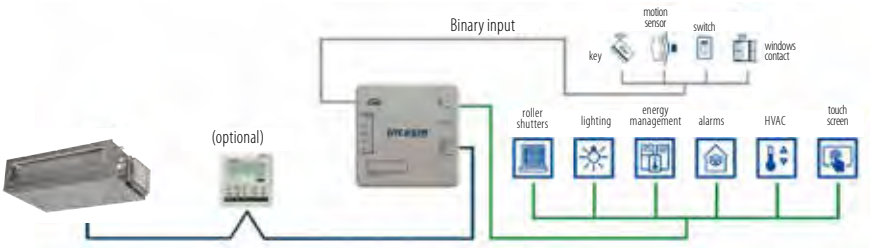
TMS-UV04: for FDUM 140 VH, FDU 140/200/250/280 VH (PAC) models; for FDUM/FDU models from size 140 and up (VRF KX).

INTESIS - INTERFACCE BMS

KNX

By means of the INKNXMHI001R000, INKNXUNI001I000 (infrared communication) and IN776MHIO0SO000, IN776MHIO0MO000, IN776MHIO0LO000 interfaces, it is possible to integrate Mitsubishi Heavy Industries units with supervision that uses the KNX standard.

Example of integration of a light commercial unit with individual control



INKNXMHI001R000 INKNXUNI001I000

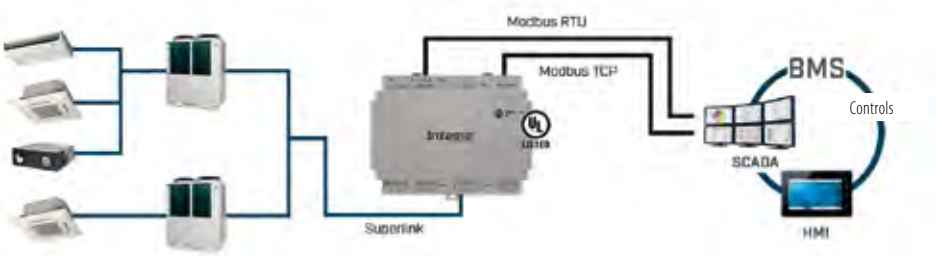
IN776MHIO0SO000
IN776MHIO0MO000
IN776MHIO0LO000

MODBUS

By means of the INMBSMHI001R000, IN485UNI001I000 (infrared communication) and IN776MHIO0SO000, IN776MHIO0MO000, IN776MHIO0LO000 interfaces, it is possible to integrate Mitsubishi Heavy Industries units with supervision that uses the Modbus standard.

Example of integration of a light commercial unit with individual control

INMBSMHI001R000 IN485UNI001I000



IN776MHIO0SO000
IN776MHIO0MO000
IN776MHIO0LO000

INTESIS - INTERFACCE BMS

BACNET

The BACnet Gateways INBACMHI001R000, IN485UNI001I000 (infrared communication) and IN776MHI00SO000, IN776MHI00MO000, IN776MHI00LO000 allow two-way communication between Mitsubishi Heavy Industries Commercial and VRF units and BACnet IP and BACnet MS/TP or BACnet MS/TP only networks, respectively.

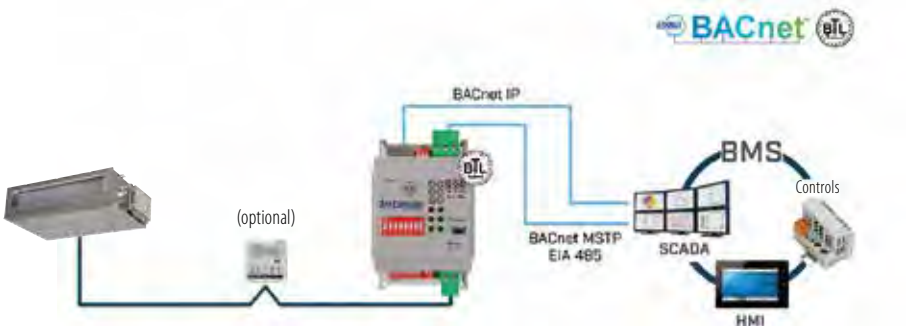
BACNET MS/TP NETWORK

Example of integration of a commercial unit with individual control

INBACMHI001R100 IN485UNI001I000

BACNET MS/TP & BACNET IP NETWORK

Example of integration of a commercial unit with individual control



INBACMHI001R000

BACNET MS/TP NETWORK

Example of integration of a commercial unit with individual control

IN776MHI00SO000
IN776MHI00MO000
IN776MHI00LO000

ICON KEY

ENERGY SAVING

FUZZY AUTO OPERATION

The unit automatically determines the operating mode and temperature setting based on fuzzy calculation by adjusting the frequency of the Inverter.

HUMAN SENSOR

This sensor detects the activity and movement of people present in the environment, inhibiting the operation of the unit when it is not necessary.

ECO MODE

The temperature and humidity in the environment are monitored, using a sensor that automatically controls the operation. In combination with the motion sensor, the system enables an energy saving mode ensuring that comfort is maintained.

AUTO-OFF

If the air conditioner does not detect the presence of any activity by people in the room for a certain period of time, operation is automatically stopped.

ECONOMIC MODE

The unit carries out an effective energy saving operation, while maintaining comfort in cooling and heating at the same time.

AIRFLOW

JET AIR

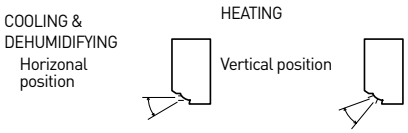
Aviation technology is used to design the components of the air flow system of the air conditioner.

3D AUTO

By pressing a single button, you can choose the optimal 3D cooling/heating mode.

AUTOMATIC SELECTION OF FLAPS' MOVEMENT

In any operating mode, the unit automatically selects the optimal angle of the air diffusion fin.



FLAP POSITION MEMORY

In any operating mode, the unit automatically selects the optimal angle of the air diffusion louver.

VERTICAL SWINGING OF FLAPS

The air outlet flap moves continuously from top to bottom and vice versa. The up/down swing of the flap can be fixed at the desired operating angle.

HORIZONTAL SWINGING OF FLAPS

The air deflector moves continuously from left to right and vice versa. The swing of the right/left flap can be fixed at the desired operating angle.

AIR DRAFT PREVENTION SETTING

This function can be used via the remote control in both cooling and heating modes. This allows for a homogeneous and accurately assistive air flow out of the indoor unit.

FILTERS AND SANITIZATION

ALLERGEN CLEAR FUNCTION

The system is equipped with an allergen elimination function: the filter captures allergens, controlling temperature and humidity

SELF CLEAN FUNCTION

Once the unit has finished operating, the automatic cleaning procedure starts and continues for 2 hours. The function involves drying the internal unit and prevents the formation of mould.

ALLERGEN CLEAR FILTER

The filter neutralizes pollen and all parasites that live on the skin of animals, eliminating all allergens.

PHOTOCATALYTIC FILTER

The filter keeps the air clean by deodorizing the molecules that cause bad odors. The deodorizing capacity can be easily restored by simply washing the filter and exposing it to sunlight.

REMOVABLE PANEL

Maintenance is easy, as the front panel can be easily removed for trouble-free cleaning and maintenance.

ICON KEY

COMFORT

DEHUMIDIFICATION

The unit dehumidifies the room through an intermittent cooling operation.

HIGH POWER FUNCTION

The unit is capable of operating in enhanced "HI POWER" mode for 15 consecutive minutes. This mode is useful for reaching the desired temperature quickly.

SILENT FUNCTION

The sound level of the outdoor units is at least 3 dB(A) lower than the nominal level.

NIGHT FUNCTION

During cold seasons, temperatures can be maintained at a comfortable level even when there are no people inside the room. The air conditioner maintains the temperature at 10° C.

FIREPLACE FUNCTION

The fan continues to operate when the room temperature is constant, the warm air accumulated at the top is kept circulating in the room.

WEEKLY TIMER

For each day of the week, up to 4 timer programming (ON-TIMER/OFF-TIMER) are available. It is possible to set MAX 28 schedules per week.

PROGRAMMABLE TIMER 24 HOURS

By combining a Start Timer with a Stop Timer, you can record two Timer selections per day.
Once set, the Timers will faithfully start and stop the system at the scheduled time, repeating the operation every day.

TIMER SLEEP

During the Sleep mode setting period, the room temperature is automatically controlled, so that it neither feels excessively cold nor excessively hot.

TIMER ON/OFF

Unit operation will start and stop at the set time.

COMFORT START-UP

In ON-TIMER operation, the unit automatically starts operation a little earlier, so that the room can approach the optimal temperature at the time set for start.

PRE-SET FUNCTION

By simply pressing a button, you can activate the pre-set operating mode.

CHILD LOCK

Button lock function, to prevent tampering and inadvertent operations. This feature is useful for families with small children.

LED INTENSITY ADJUSTMENT

The brightness of the LED display can be adjusted according to your needs.

INSTALLATION POSITION

If the air conditioner is installed near the side wall, you can set the left-right air flow directions using the remote controller.

WI-FI MODULE

With the wireless device, you can control the air conditioner at home or on the go by installing the Smart M-Air app on your smartphone or tablet.

OTHER FUNCTIONS

DEFROST FUNCTION

This mode automatically eliminates frost, minimizing excessive operation in other modes.

SELF-DIAGNOSIS FUNCTION

In case of malfunctions of the air conditioner, an internal microprocessor automatically performs a self-diagnosis (inspection and repair must be carried out by the Authorized Technical Service).

AUTORESTART FUNCTION

The automatic restart after power failure function is a function that records the operating conditions of the air conditioner immediately before the blackout, so that the same settings are restored when the power supply returns.

BACKUP FUNCTION

On the main unit, there is a backup/off button, which is useful when you can't use the remote control, or because the batteries are low.

MITSUBISHI HEAVY INDUSTRIES

PERFORMANCE TABLES MULTISPLIT **R32**

PERFORMANCE TABLES MULTISPLIT R32

SCM 30 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)					Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)		Total capacity (kW)								
		SCOP		A	B	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	15		3.92	2.0	-	1.0	2.0	3.2	250	510	940	2.4	2.3	2.2
	20		3.85	3.0	-	1.0	3.0	4.3	250	780	1260	3.7	3.6	3.4
	25		3.74	3.4	-	1.0	3.4	4.5	250	910	1310	4.4	4.2	4.0
2 units	15 + 15	4.80	5.41	2.00	2.00	1.1	4.0	5.7	250	740	1490	3.5	3.4	3.2
	15 + 20	4.80	5.41	1.71	2.29	1.1	4.0	5.7	250	740	1490	3.5	3.4	3.2
	15 + 25	4.80	5.41	1.50	2.50	1.1	4.0	5.7	250	740	1490	3.5	3.4	3.2
	20 + 20	4.80	5.41	2.00	2.00	1.1	4.0	5.7	250	740	1490	3.5	3.4	3.2
	20 + 25	4.80	5.41	1.78	2.22	1.1	4.0	5.7	250	740	1490	3.5	3.4	3.2
	25 + 25	4.80	5.41	2.00	2.00	1.1	4.0	5.7	250	740	1490	3.5	3.4	3.2

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)					Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)		Total capacity (kW)								
		SEER		A	B	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	15		4.29	1.50	-	1.4	1.5	2.2	320	350	710	1.8	1.7	1.6
	20		3.92	2.00	-	1.4	2.0	2.9	320	510	930	2.6	2.5	2.4
	25		3.52	2.50	-	1.4	2.5	3.1	320	710	990	3.6	3.5	3.3
2 units	15 + 15	8.60	5.77	1.50	1.50	1.6	3.0	4.4	320	520	1280	2.7	2.5	2.4
	15 + 20	8.60	5.77	1.29	1.71	1.6	3.0	4.9	320	520	1520	2.7	2.5	2.4
	15 + 25	8.60	5.77	1.13	1.88	1.6	3.0	5.0	320	520	1600	2.7	2.5	2.4
	20 + 20	8.60	5.77	1.50	1.50	1.6	3.0	5.0	320	520	1600	2.7	2.5	2.4
	20 + 25	8.60	5.77	1.33	1.67	1.6	3.0	5.0	320	520	1600	2.7	2.5	2.4
	25 + 25	8.60	5.77	1.50	1.50	1.6	3.0	5.0	320	520	1600	2.7	2.5	2.4

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

SCM 40 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)					Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)		Total capacity (kW)								
		SCOP		A	B	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		4.41	3.0	-	1.0	3.0	4.5	250	680	1140	3.2	3.1	3.0
	25		4.30	3.4	-	1.0	3.4	4.9	250	790	1270	3.7	3.5	3.4
	35		3.95	4.5	-	1.0	4.5	5.4	250	1140	1470	5.3	5.1	4.8
2 units	20 + 20	4.70	5.42	2.25	2.25	1.2	4.5	6.3	250	830	1480	3.8	3.7	3.5
	20 + 25	4.70	5.42	2.00	2.50	1.2	4.5	6.3	250	830	1480	3.8	3.7	3.5
	20 + 35	4.70	5.42	1.64	2.86	1.2	4.5	6.3	250	830	1480	3.8	3.7	3.5
	25 + 25	4.70	5.42	2.25	2.25	1.2	4.5	6.3	250	830	1480	3.8	3.7	3.5
	25 + 35	4.70	5.42	1.88	2.63	1.2	4.5	6.3	250	830	1480	3.8	3.7	3.5

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)					Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)		Total capacity (kW)								
		SEER		A	B	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		4.65	2.00	-	1.5	2.0	3.4	340	430	930	2.2	2.1	2.0
	25		4.17	2.50	-	1.5	2.5	3.8	340	600	1110	3.0	2.9	2.8
	35		3.50	3.50	-	1.5	3.5	4.5	340	1000	1470	4.7	4.5	4.3
2 units	20 + 20	9.10	5.00	2.00	2.00	1.7	4.0	5.9	340	800	2100	3.7	3.5	3.4
	20 + 25	9.10	5.00	1.78	2.22	1.7	4.0	5.9	340	800	2100	3.7	3.5	3.4
	20 + 35	9.10	5.00	1.45	2.55	1.7	4.0	5.9	340	800	2100	3.7	3.5	3.4
	25 + 25	9.10	5.00	2.00	2.00	1.7	4.0	5.9	340	800	2100	3.7	3.5	3.4
	25 + 35	9.10	5.00	1.67	2.33	1.7	4.0	5.9	340	800	2100	3.7	3.5	3.4

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 45 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)					Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)		Total capacity (kW)								
		SCOP		A	B	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		4.41	3.00	-	1.0	3.0	4.5	250	680	1140	3.2	3.1	3.0
	25		4.30	3.40	-	1.0	3.4	4.9	250	790	1270	3.7	3.5	3.4
	35		3.95	4.50	-	1.0	4.5	5.4	250	1140	1470	5.3	5.1	4.8
2 units	20 + 20		5.42	2.25	2.25	1.2	4.5	6.5	250	830	1480	3.8	3.7	3.5
	20 + 25	4.70	5.00	2.36	2.94	1.2	5.3	6.5	250	1060	1480	4.9	4.7	4.5
	20 + 35	4.70	5.00	1.93	3.37	1.2	5.3	6.5	250	1060	1480	4.9	4.7	4.5
	25 + 25	4.70	5.00	2.65	2.65	1.2	5.3	6.5	250	1060	1480	4.9	4.7	4.5
	25 + 35	4.70	5.00	2.21	3.09	1.2	5.3	6.5	250	1060	1480	4.9	4.7	4.5
	35 + 35	4.70	5.00	2.65	2.65	1.2	5.3	6.5	250	1060	1480	4.9	4.7	4.5

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)					Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)		Total capacity (kW)								
		SEER		A	B	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		4.65	2.00	-	1.5	2.0	3.4	340	430	930	2.2	2.1	2.0
	25		4.17	2.50	-	1.5	2.5	3.8	340	600	1110	3.0	2.9	2.8
	35		3.50	3.50	-	1.5	3.5	4.5	340	1000	1470	4.7	4.5	4.3
2 units	20 + 20		4.65	2.00	2.00	1.7	4.0	6.2	340	860	2100	4.0	3.8	3.7
	20 + 25	9.10	4.69	2.00	2.50	1.7	4.5	6.4	340	960	2300	4.5	4.3	4.1
	20 + 35	9.10	4.69	1.64	2.86	1.7	4.5	6.4	340	960	2300	4.5	4.3	4.1
	25 + 25	9.10	4.69	2.25	2.25	1.7	4.5	6.4	340	960	2300	4.5	4.3	4.1
	25 + 35	9.10	4.69	1.88	2.63	1.7	4.5	6.4	340	960	2300	4.5	4.3	4.1
	35 + 35	9.10	4.69	2.25	2.25	1.7	4.5	6.4	340	960	2300	4.5	4.3	4.1

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

SCM 41 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)								
		SCOP		A	B	C	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	15		3.64	2.00	-	-	-	1.0	2.0	3.2	250	550	990	2.6	2.5	2.4
	20		3.45	3.00	-	-	-	1.0	3.0	4.3	250	870	1330	4.1	3.9	3.8
	25		3.37	3.40	-	-	-	1.0	3.4	4.5	250	1010	1390	4.8	4.6	4.4
	35		3.24	4.50	-	-	-	1.0	4.5	5.0	250	1390	1550	6.6	6.3	6.0
2 units	15 + 15	4.50	4.86	1.70	1.70	-	-	1.1	3.4	6.6	250	700	1580	3.3	3.2	3.0
	15 + 20	4.50	4.64	1.67	2.23	-	-	1.1	3.9	6.6	250	840	1580	4.0	3.8	3.6
	15 + 25	4.50	4.41	1.69	2.81	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
	15 + 35	4.50	4.41	1.35	3.15	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
	20 + 20	4.50	4.41	2.25	2.25	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
	20 + 25	4.50	4.41	2.00	2.50	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
	20 + 35	4.50	4.41	1.64	2.86	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
	25 + 25	4.50	4.41	2.25	2.25	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
	25 + 35	4.50	4.41	1.88	2.63	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
	35 + 35	4.50	4.41	2.25	2.25	-	-	1.1	4.5	6.6	250	1020	1580	4.8	4.6	4.4
3 units	15 + 15 + 15	4.60	5.56	1.50	1.50	1.50	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	15 + 15 + 20	4.60	5.56	1.35	1.35	1.80	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	15 + 15 + 25	4.60	5.56	1.23	1.23	2.05	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	15 + 15 + 35	4.60	5.56	1.04	1.04	2.42	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	15 + 20 + 20	4.60	5.56	1.23	1.64	1.64	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	15 + 20 + 25	4.60	5.56	1.13	1.50	1.88	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	15 + 20 + 35	4.60	5.56	0.96	1.29	2.25	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	20 + 20 + 20	4.60	5.56	1.50	1.50	1.50	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	20 + 20 + 25	4.60	5.56	1.38	1.38	1.73	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5
	20 + 25 + 25	4.60	5.56	1.29	1.61	1.61	-	1.2	4.5	6.9	250	810	1580	3.8	3.7	3.5

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 41 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SEER		A	B	C	D	Min.	Standard	Max.						
1 unit	15		4.17	1.50	-	-	-	1.4	1.5	2.2	320	360	740	1.7	1.6	1.6
	20		3.77	2.00	-	-	-	1.4	2.0	2.9	320	530	970	2.5	2.4	2.3
	25		3.42	2.50	-	-	-	1.4	2.5	3.1	320	730	1040	3.5	3.3	3.2
	35		3.13	3.50	-	-	-	1.4	3.5	4.0	320	1120	1330	5.4	5.1	4.9
2 units	15 + 15	8.40	5.45	1.50	1.50	-	-	1.5	3.0	4.9	320	550	1400	2.6	2.5	2.4
	15 + 20	8.40	5.00	1.50	2.00	-	-	1.5	3.5	5.5	320	700	1600	3.3	3.2	3.1
	15 + 25	8.40	4.40	1.50	2.50	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
	15 + 35	8.40	4.40	1.20	2.80	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
	20 + 20	8.40	4.40	2.00	2.00	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
	20 + 25	8.40	4.40	1.78	2.22	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
	20 + 35	8.40	4.40	1.45	2.55	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
	25 + 25	8.40	4.40	2.00	2.00	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
	25 + 35	8.40	4.40	1.67	2.33	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
	35 + 35	8.40	4.40	2.00	2.00	-	-	1.5	4.0	5.7	320	910	1650	4.4	4.2	4.0
3 units	15 + 15 + 15	9.20	5.56	1.33	1.33	1.33	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	15 + 15 + 20	9.20	5.56	1.20	1.20	1.60	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	15 + 15 + 25	9.20	5.56	1.09	1.09	1.82	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	15 + 15 + 35	9.20	5.56	0.92	0.92	2.15	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	15 + 20 + 20	9.20	5.56	1.09	1.45	1.45	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	15 + 20 + 25	9.20	5.56	1.00	1.33	1.67	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	15 + 20 + 35	9.20	5.56	0.86	1.14	2.00	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	20 + 20 + 20	9.20	5.56	1.33	1.33	1.33	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	20 + 20 + 25	9.20	5.56	1.23	1.23	1.54	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2
	20 + 25 + 25	9.20	5.56	1.14	1.43	1.43	-	1.6	4.0	6.3	320	720	1650	3.4	3.3	3.2

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

SCM 50 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SCOP		A	B	C	D	Min.	Standard	Max.						
1 unit	20		3.85	3.00	-	-	-	1.0	3.0	3.7	320	780	1100	3.6	3.5	3.3
	25		3.58	3.40	-	-	-	1.0	3.4	4.2	320	950	1240	4.4	4.2	4.0
	35		3.54	4.50	-	-	-	1.0	4.5	5.0	320	1270	1490	5.9	5.6	5.4
	50		3.39	5.80	-	-	-	1.0	5.8	6.5	320	1710	2310	7.9	7.6	7.3
2 units	20+20		5.14	2.70	2.70	-	-	1.2	5.4	7.3	290	1050	2500	4.9	4.7	4.5
	20+25		5.00	2.62	3.28	-	-	1.2	5.9	7.3	290	1180	2500	5.5	5.2	5.0
	20+35	4.70	5.00	2.18	3.82	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	20+50	4.70	5.00	1.71	4.29	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	25+25	4.70	5.00	3.00	3.00	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	25+35	4.70	5.00	2.50	3.50	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	25+50	4.70	5.00	2.00	4.00	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	35+35	4.70	5.00	3.00	3.00	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
	35+50	4.70	5.00	2.47	3.53	-	-	1.2	6.0	7.3	290	1200	2500	5.6	5.3	5.1
3 units	20+20+20	4.60	5.17	2.00	2.00	2.00	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	20+20+25	4.60	5.17	1.85	1.85	2.31	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	20+20+35	4.60	5.17	1.60	1.60	2.80	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	20+25+25	4.60	5.17	1.71	2.14	2.14	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	20+25+35	4.60	5.17	1.50	1.88	2.63	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	25+25+25	4.60	5.17	2.00	2.00	2.00	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9
	25+25+35	4.60	5.17	1.76	1.76	2.47	-	1.4	6.0	7.5	270	1160	2500	5.4	5.1	4.9

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 50 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SEER		A	B	C	D	Min.	Standard	Max.						
1 unit	20		4.00	2.00	-	-	-	1.7	2.0	2.8	430	500	950	2.4	2.3	2.2
	25		3.68	2.50	-	-	-	1.7	2.5	3.4	430	680	1070	3.2	3.1	3.0
	35		3.47	3.50	-	-	-	1.7	3.5	3.9	430	1010	1230	4.7	4.5	4.3
	50		3.27	5.00	-	-	-	1.7	5.0	5.5	430	1530	2000	7.0	6.7	6.4
2 units	20+20		5.33	2.00	2.00	-	-	1.8	4.0	5.7	390	750	1750	3.5	3.3	3.2
	20+25		4.55	2.00	2.50	-	-	1.8	4.5	5.9	390	990	1910	4.6	4.4	4.2
	20+35	8.60	4.50	1.82	3.18	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	20+50	8.60	4.50	1.43	3.57	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	25+25	8.60	4.50	2.50	2.50	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	25+35	8.60	4.50	2.08	2.92	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	25+50	8.60	4.50	1.67	3.33	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	35+35	8.60	4.50	2.50	2.50	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	35+50	8.60	4.50	2.06	2.94	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
3 units	20+20+20	8.80	4.90	1.67	1.67	1.67	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	20+20+25	8.80	4.90	1.54	1.54	1.92	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	20+20+35	8.80	4.90	1.33	1.33	2.33	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	20+25+25	8.80	4.90	1.43	1.79	1.79	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	20+25+35	8.80	4.90	1.25	1.56	2.19	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	25+25+25	8.80	4.90	1.67	1.67	1.67	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3
	25+25+35	8.80	4.90	1.47	1.47	2.06	-	2.1	5.0	7.1	350	1020	2150	4.7	4.5	4.3

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

SCM 60 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SCOP		A	B	C	D	Min.	Standard	Max.						
1 unit	20		3.85	3.00	-	-	-	1.0	3.0	3.7	320	780	1100	3.6	3.5	3.3
	25		3.58	3.40	-	-	-	1.0	3.4	4.2	320	950	1240	4.4	4.2	4.0
	35		3.54	4.50	-	-	-	1.0	4.5	5.0	320	1270	1490	5.9	5.6	5.4
	50		3.39	5.80	-	-	-	1.0	5.8	6.5	320	1710	2310	7.9	7.6	7.3
	60		3.33	6.80	-	-	-	1.0	6.8	7.3	320	2040	2660	9.5	9.1	8.7
2 units	20+20		5.14	2.70	2.70	-	-	1.2	5.4	7.3	290	1050	2100	4.9	4.7	4.5
	20+25		5.00	2.62	3.28	-	-	1.2	5.9	7.5	290	1180	2550	5.5	5.2	5.0
	20+35		4.85	2.40	4.20	-	-	1.2	6.6	7.6	290	1360	2800	6.3	6.0	5.8
	20+50	4.70	4.72	1.94	4.86	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	20+60	4.70	4.72	1.70	5.10	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	25+25		4.89	3.20	3.20	-	-	1.2	6.4	7.6	290	1310	2800	6.1	5.8	5.6
	25+35	4.70	4.72	2.83	3.97	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	25+50	4.70	4.72	2.27	4.53	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	25+60	4.70	4.72	2.00	4.80	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	35+35	4.70	4.72	3.40	3.40	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	35+50	4.70	4.72	2.80	4.00	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	35+60	4.70	4.72	2.51	4.29	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	50+50	4.70	4.72	3.40	3.40	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
	50+60	4.70	4.72	3.09	3.71	-	-	1.2	6.8	7.6	290	1440	2800	6.7	6.4	6.1
3 units	20+20+20	4.60	4.86	2.27	2.27	2.27	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+20+25	4.60	4.86	2.09	2.09	2.62	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+20+35	4.60	4.86	1.81	1.81	3.17	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+20+50	4.60	4.86	1.51	1.51	3.78	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+20+60	4.60	4.86	1.36	1.36	4.08	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+25+25	4.60	4.86	1.94	2.43	2.43	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+25+35	4.60	4.86	1.70	2.13	2.98	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+25+50	4.60	4.86	1.43	1.79	3.58	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+25+60	4.60	4.86	1.30	1.62	3.89	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+35+35	4.60	4.86	1.51	2.64	2.64	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	20+35+50	4.60	4.86	1.30	2.27	3.24	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+25	4.60	4.86	2.27	2.27	2.27	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+35	4.60	4.86	2.00	2.00	2.80	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+50	4.60	4.86	1.70	1.70	3.40	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+25+60	4.60	4.86	1.55	1.55	3.71	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+35+35	4.60	4.86	1.79	2.51	2.51	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	25+35+50	4.60	4.86	1.55	2.16	3.09	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0
	35+35+35	4.60	4.86	2.27	2.27	2.27	-	1.4	6.8	7.8	270	1400	2800	6.5	6.2	6.0

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 60 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SEER		A	B	C	D	Min.	Standard	Max.						
1 unit	20		4.00	2.00	-	-	-	1.7	2.0	2.8	430	500	950	2.4	2.3	2.2
	25		3.68	2.50	-	-	-	1.7	2.5	3.4	430	680	1080	3.2	3.1	3.0
	35		3.47	3.50	-	-	-	1.7	3.5	3.9	430	1010	1240	4.7	4.5	4.3
	50		3.27	5.00	-	-	-	1.7	5.0	6.1	430	1530	2100	7.0	6.7	6.4
	60		3.19	6.00	-	-	-	1.7	6.0	6.3	430	1880	2280	8.6	8.3	7.9
2 units	20+20		5.33	2.00	2.00	-	-	1.8	4.0	5.7	390	750	1750	3.5	3.3	3.2
	20+25		4.55	2.00	2.50	-	-	1.8	4.5	5.9	390	990	1910	4.6	4.4	4.2
	20+35		4.17	2.00	3.50	-	-	1.8	5.5	6.7	390	1320	2200	6.1	5.8	5.6
	20+50	8.20	3.85	1.71	4.29	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	20+60	8.20	3.85	1.50	4.50	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	25+25		4.50	2.50	2.50	-	-	1.8	5.0	6.5	390	1110	2150	5.1	4.9	4.7
	25+35	8.20	3.85	2.50	3.50	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	25+50	8.20	3.85	2.00	4.00	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	25+60	8.20	3.85	1.76	4.24	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	35+35	8.20	3.85	3.00	3.00	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	35+50	8.20	3.85	2.47	3.53	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	35+60	8.20	3.85	2.21	3.79	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	50+50	8.20	3.85	3.00	3.00	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
	50+60	8.20	3.85	2.73	3.27	-	-	1.8	6.0	6.9	390	1560	2280	7.2	6.9	6.6
3 units	20+20+20	8.80	4.55	2.00	2.00	2.00	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+25	8.80	4.55	1.85	1.85	2.31	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+35	8.80	4.55	1.60	1.60	2.80	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+50	8.80	4.55	1.33	1.33	3.33	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+20+60	8.80	4.55	1.20	1.20	3.60	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+25+25	8.80	4.55	1.71	2.14	2.14	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+25+35	8.80	4.55	1.50	1.88	2.63	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+25+50	8.80	4.55	1.26	1.58	3.16	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+25+60	8.80	4.55	1.14	1.43	3.43	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+35+35	8.80	4.55	1.33	2.33	2.33	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	20+35+50	8.80	4.55	1.14	2.00	2.86	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+25	8.80	4.55	2.00	2.00	2.00	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+35	8.80	4.55	1.76	1.76	2.47	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+50	8.80	4.55	1.50	1.50	3.00	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+25+60	8.80	4.55	1.36	1.36	3.27	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+35+35	8.80	4.55	1.58	2.21	2.21	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	25+35+50	8.80	4.55	1.36	1.91	2.73	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6
	35+35+35	8.80	4.55	2.00	2.00	2.00	-	2.1	6.0	7.5	350	1320	2280	6.1	5.8	5.6

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 71 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)								
		SCOP		A	B	C	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		3.57	3.00	-	-	-	1.1	3.0	3.7	390	840	1330	4.0	3.8	3.6
	25		3.40	3.40	-	-	-	1.1	3.4	4.2	390	1000	1510	4.7	4.5	4.3
	35		3.38	4.50	-	-	-	1.1	4.5	5.0	390	1330	1790	6.2	5.9	5.7
	50		3.26	5.80	-	-	-	1.1	5.8	6.5	390	1780	2310	8.3	7.9	7.6
	60		3.24	6.80	-	-	-	1.1	6.8	7.5	390	2100	2660	9.7	9.3	8.9
2 units	20 + 20		4.22	2.70	2.70	-	-	1.5	5.4	7.4	350	1280	1870	6.0	5.7	5.5
	20 + 25		4.18	2.62	3.28	-	-	1.5	5.9	7.7	350	1410	2130	6.6	6.3	6.0
	20 + 35		4.11	2.51	4.39	-	-	1.5	6.9	8.3	350	1680	2650	7.8	7.5	7.1
	20 + 50	4.20	4.10	2.46	6.14	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	20 + 60	4.20	4.10	2.15	6.45	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	25 + 25		4.16	3.20	3.20	-	-	1.5	6.4	8.1	350	1540	2480	7.1	6.8	6.5
	25 + 35		4.09	3.08	4.32	-	-	1.5	7.4	8.6	350	1810	2910	8.4	8.0	7.7
	25 + 50	4.20	4.10	2.87	5.73	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	25 + 60	4.20	4.10	2.53	6.07	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	35 + 35	4.20	4.10	4.30	4.30	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	35 + 50	4.20	4.10	3.54	5.06	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	35 + 60	4.20	4.10	3.17	5.43	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	50 + 50	4.20	4.10	4.30	4.30	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	50 + 60	4.20	4.10	3.91	4.69	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	60 + 60	4.20	4.10	4.30	4.30	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
3 units	20 + 20 + 20		4.21	2.57	2.57	2.57	-	1.6	7.7	9.1	370	1830	3000	8.5	8.1	7.8
	20 + 20 + 25		4.15	2.46	2.46	3.08	-	1.6	8.0	9.1	370	1930	3000	9.0	8.6	8.2
	20 + 20 + 35	4.30	4.17	2.29	2.29	4.01	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 20 + 50	4.30	4.17	1.91	1.91	4.78	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 20 + 60	4.30	4.17	1.72	1.72	5.16	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 25	4.30	4.17	2.46	3.07	3.07	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 35	4.30	4.17	2.15	2.69	3.76	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 50	4.30	4.17	1.81	2.26	4.53	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 60	4.30	4.17	1.64	2.05	4.91	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 35 + 35	4.30	4.17	1.91	3.34	3.34	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 35 + 50	4.30	4.17	1.64	2.87	4.10	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 35 + 60	4.30	4.17	1.50	2.62	4.49	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 50 + 50	4.30	4.17	1.43	3.58	3.58	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 25	4.30	4.17	2.87	2.87	2.87	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 35	4.30	4.17	2.53	2.53	3.54	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 50	4.30	4.17	2.15	2.15	4.30	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 60	4.30	4.17	1.95	1.95	4.69	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 35 + 35	4.30	4.17	2.26	3.17	3.17	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 35 + 50	4.30	4.17	1.95	2.74	3.91	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 35 + 60	4.30	4.17	1.79	2.51	4.30	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 50 + 50	4.30	4.17	1.72	3.44	3.44	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	35 + 35 + 35	4.30	4.17	2.87	2.87	2.87	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	35 + 35 + 50	4.30	4.17	2.51	2.51	3.58	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
4 units	20 + 20 + 20 + 20	4.60	4.91	2.15	2.15	2.15	2.15	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 25	4.60	4.91	2.02	2.02	2.02	2.53	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 35	4.60	4.91	1.81	1.81	1.81	3.17	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 50	4.60	4.91	1.56	1.56	1.56	3.91	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 60	4.60	4.91	1.43	1.43	1.43	4.30	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 25	4.60	4.91	1.91	1.91	2.39	2.39	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 35	4.60	4.91	1.72	1.72	2.15	3.01	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 50	4.60	4.91	1.50	1.50	1.87	3.74	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 60	4.60	4.91	1.38	1.38	1.72	4.13	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 35 + 35	4.60	4.91	1.56	1.56	2.74	2.74	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 35 + 50	4.60	4.91	1.38	1.38	2.41	3.44	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25+ 25 + 25	4.60	4.91	1.81	2.26	2.26	2.26	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25 + 25 + 35	4.60	4.91	1.64	2.05	2.05	2.87	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25 + 25 + 50	4.60	4.91	1.43	1.79	1.79	3.58	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25 + 35 + 35	4.60	4.91	1.50	1.87	2.62	2.62	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 35 + 35 + 35	4.60	4.91	1.38	2.41	2.41	2.41	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 25 + 25	4.60	4.91	2.15	2.15	2.15	2.15	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 25 + 35	4.60	4.91	1.95	1.95	1.95	2.74	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 25 + 50	4.60	4.91	1.72	1.72	1.72	3.44	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 35 + 35	4.60	4.91	1.79	1.79	2.51	2.51	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 71 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SEER		A	B	C	D	Min.	Standard	Max.						
1 unit	20		4.00	2.00	-	-	-	1.8	2.0	3.4	480	500	950	2.4	2.3	2.2
	25		3.68	2.50	-	-	-	1.8	2.5	3.8	480	680	1080	3.2	3.1	3.0
	35		3.47	3.50	-	-	-	1.8	3.5	4.5	480	1010	1240	4.7	4.5	4.3
	50		3.27	5.00	-	-	-	1.8	5.0	6.2	480	1530	2100	7.0	6.7	6.4
	60		3.19	6.00	-	-	-	1.8	6.0	6.9	480	1880	2700	8.6	8.3	7.9
2 units	20 + 20		4.76	2.00	2.00	-	-	3.0	4.0	6.1	550	840	1910	4.0	3.8	3.6
	20 + 25		4.55	2.00	2.50	-	-	3.0	4.5	6.4	550	990	2060	4.6	4.4	4.3
	20 + 35		4.17	2.00	3.50	-	-	3.0	5.5	6.9	550	1320	2320	6.1	5.8	5.6
	20 + 50	7.20	3.60	2.03	5.07	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	20 + 60	7.20	3.60	1.78	5.33	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	25 + 25		4.35	2.50	2.50	-	-	3.0	5.0	6.8	550	1150	2270	5.4	5.1	4.9
	25 + 35		4.01	2.46	3.44	-	-	3.0	5.9	7.2	550	1470	2470	6.8	6.5	6.2
	25 + 50	7.20	3.60	2.37	4.73	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	25 + 60	7.20	3.60	2.09	5.01	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	35 + 35	7.20	3.60	3.55	3.55	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	35 + 50	7.20	3.60	2.92	4.18	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	35 + 60	7.20	3.60	2.62	4.48	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	50 + 50	7.20	3.60	3.55	3.55	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	50 + 60	7.20	3.60	3.23	3.87	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	60 + 60	7.20	3.60	3.55	3.55	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
3 units	20 + 20 + 20	7.80	4.84	2.00	2.00	2.00	-	3.7	6.0	8.2	670	1240	2750	5.8	5.5	5.3
	20 + 20 + 25	7.80	4.68	2.00	2.00	2.50	-	3.7	6.5	8.2	670	1390	2750	6.4	6.1	5.9
	20 + 20 + 35	7.80	4.67	1.89	1.89	3.31	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 20 + 50	7.80	4.67	1.58	1.58	3.94	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 20 + 60	7.80	4.67	1.42	1.42	4.26	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 25	7.80	4.67	2.03	2.54	2.54	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 35	7.80	4.67	1.78	2.22	3.11	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 50	7.80	4.67	1.49	1.87	3.74	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 60	7.80	4.67	1.35	1.69	4.06	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 35 + 35	7.80	4.67	1.58	2.76	2.76	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 35 + 50	7.80	4.67	1.35	2.37	3.38	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 35 + 60	7.80	4.67	1.23	2.16	3.70	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 50 + 50	7.80	4.67	1.18	2.96	2.96	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 25	7.80	4.67	2.37	2.37	2.37	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 35	7.80	4.67	2.09	2.09	2.92	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 50	7.80	4.67	1.78	1.78	3.55	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 60	7.80	4.67	1.61	1.61	3.87	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 35 + 35	7.80	4.67	1.87	2.62	2.62	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 35 + 50	7.80	4.67	1.61	2.26	3.23	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 35 + 60	7.80	4.67	1.48	2.07	3.55	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 50 + 50	7.80	4.67	1.42	2.84	2.84	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	35 + 35 + 35	7.80	4.67	2.37	2.37	2.37	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	35 + 35 + 50	7.80	4.67	2.07	2.07	2.96	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
4 units	20 +20 + 20 + 20		5.00	1.78	1.78	1.78	1.78	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 20 + 25		5.00	1.67	1.67	1.67	2.09	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 20 + 35	8.30	5.00	1.49	1.49	1.49	2.62	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 20 + 50	8.30	5.00	1.29	1.29	1.29	3.23	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 20 + 60	8.30	5.00	1.18	1.18	1.18	3.55	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 25 + 25	8.30	5.00	1.58	1.58	1.97	1.97	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 25 + 35	8.30	5.00	1.42	1.42	1.78	2.49	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 25 + 50	8.30	5.00	1.23	1.23	1.54	3.09	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 25 + 60	8.30	5.00	1.14	1.14	1.42	3.41	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 35 + 35	8.30	5.00	1.29	1.29	2.26	2.26	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 20 + 35 + 50	8.30	5.00	1.14	1.14	1.99	2.84	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 25+ 25 + 25	8.30	5.00	1.49	1.87	1.87	1.87	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 25 + 25 + 35	8.30	5.00	1.35	1.69	1.69	2.37	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 25 + 25 + 50	8.30	5.00	1.18	1.48	1.48	2.96	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 25 + 35 + 35	8.30	5.00	1.23	1.54	2.16	2.16	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	20 + 35 + 35 + 35	8.30	5.00	1.14	1.99	1.99	1.99	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	25 + 25 + 25 + 25	8.30	5.00	1.78	1.78	1.78	1.78	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	25 + 25 + 25 + 35	8.30	5.00	1.61	1.61	1.61	2.26	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	25 + 25 + 25 + 50	8.30	5.00	1.42	1.42	1.42	2.84	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0
	25 + 25 + 35 + 35	8.30	5.00	1.48	1.48	2.07	2.07	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 80 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)								
		SCOP		A	B	C	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		3.57	3.00	-	-	-	1.1	3.0	3.7	390	840	1330	4.0	3.8	3.6
	25		3.40	3.40	-	-	-	1.1	3.4	4.2	390	1000	1510	4.7	4.5	4.3
	35		3.38	4.50	-	-	-	1.1	4.5	5.0	390	1330	1790	6.2	5.9	5.7
	50		3.26	5.80	-	-	-	1.1	5.8	6.5	390	1780	2310	8.3	7.9	7.6
	60		3.24	6.80	-	-	-	1.1	6.8	7.5	390	2100	2660	9.7	9.3	8.9
2 units	20 + 20		4.22	2.70	2.70	-	-	1.5	5.4	7.4	350	1280	1870	6.0	5.7	5.5
	20 + 25		4.18	2.62	3.28	-	-	1.5	5.9	7.7	350	1410	2130	6.6	6.3	6.0
	20 + 35		4.11	2.51	4.39	-	-	1.5	6.9	8.3	350	1680	2650	7.8	7.5	7.1
	20 + 50		4.10	2.46	6.14	-	-	1.5	8.6	9.5	350	2100	3120	9.7	9.3	8.9
	20 + 60	4.20	4.04	2.33	6.98	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	25 + 25		4.16	3.20	3.20	-	-	1.5	6.4	8.1	350	1540	2480	7.1	6.8	6.5
	25 + 35		4.09	3.08	4.32	-	-	1.5	7.4	8.6	350	1810	2910	8.4	8.0	7.7
	25 + 50		4.10	2.87	5.57	-	-	1.5	8.6	9.5	350	2100	3120	9.7	9.3	8.9
	25 + 60	4.20	4.04	2.74	6.56	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	35 + 35		4.10	4.30	4.30	-	-	1.5	8.6	9.5	350	2100	3120	9.7	9.3	8.9
	35 + 50	4.20	4.04	3.83	5.47	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	35 + 60	4.20	4.04	3.43	5.87	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	50 + 50	4.20	4.04	4.65	4.65	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	50 + 60	4.20	4.04	4.23	5.07	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	60 + 60	4.20	4.04	4.65	4.65	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
3 units	20 + 20 + 20		4.21	2.57	2.57	2.57	-	1.6	7.7	9.6	370	1830	3120	8.5	8.1	7.8
	20 + 20 + 25		4.15	2.46	2.46	3.08	-	1.6	8.0	9.6	370	1930	3120	9.0	8.6	8.2
	20 + 20 + 35		4.17	2.29	2.29	4.01	-	1.6	8.6	9.6	370	2060	3120	9.6	9.1	8.8
	20 + 20 + 50	4.30	4.13	2.07	2.07	5.17	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 20 + 60	4.30	4.13	1.86	1.86	5.58	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 25 + 25		4.17	2.46	3.07	3.07	-	1.6	8.6	9.6	370	2060	3120	9.6	9.1	8.8
	20 + 25 + 35	4.30	4.13	2.33	2.91	4.07	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 25 + 50	4.30	4.13	1.96	2.45	4.89	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 25 + 60	4.30	4.13	1.77	2.21	5.31	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 35 + 35	4.30	4.13	2.07	3.62	3.62	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 35 + 50	4.30	4.13	1.77	3.10	4.43	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 35 + 60	4.30	4.13	1.62	2.83	4.85	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 50 + 50	4.30	4.13	1.55	3.88	3.88	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 50 + 60	4.30	4.13	1.43	3.58	4.29	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 25 + 25		4.17	2.87	2.87	2.87	-	1.6	8.6	9.6	370	2060	3120	9.6	9.1	8.8
	25 + 25 + 35	4.30	4.13	2.74	2.74	3.83	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 25 + 50	4.30	4.13	2.33	2.33	4.65	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 25 + 60	4.30	4.13	2.11	2.11	5.07	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 35 + 35	4.30	4.13	2.45	3.43	3.43	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 35 + 50	4.30	4.13	2.11	2.96	4.23	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 35 + 60	4.30	4.13	1.94	2.71	5.65	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 50 + 50	4.30	4.13	1.86	3.72	3.72	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 50 + 60	4.30	4.13	1.72	3.44	4.13	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 35 + 35	4.30	4.13	3.10	3.10	3.10	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 35 + 50	4.30	4.13	2.71	2.71	3.88	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 35 + 60	4.30	4.13	2.50	2.50	4.29	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 50 + 50	4.30	4.13	2.41	3.44	3.44	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
4 units	20 + 20 + 20 + 20	4.60	4.77	2.33	2.33	2.33	2.33	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 25	4.60	4.77	2.19	2.19	2.19	2.74	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 35	4.60	4.77	1.96	1.96	1.96	3.43	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 50	4.60	4.77	1.69	1.69	1.69	4.23	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 60	4.60	4.77	1.55	1.55	1.55	4.65	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 25	4.60	4.77	2.07	2.07	2.58	2.58	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 35	4.60	4.77	1.86	1.86	2.33	3.26	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 50	4.60	4.77	1.62	1.62	2.02	4.04	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 60	4.60	4.77	1.49	1.49	1.86	4.46	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 35 + 35	4.60	4.77	1.69	1.69	2.96	2.96	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 35 + 50	4.60	4.77	1.49	1.49	2.60	3.72	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 35 + 60	4.60	4.77	1.38	1.38	2.41	4.13	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 25 + 25	4.60	4.77	1.96	2.45	2.45	2.45	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 25 + 35	4.60	4.77	1.77	2.21	2.21	3.10	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 25 + 50	4.60	4.77	1.55	1.94	1.94	3.88	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 25 + 60	4.60	4.77	1.43	1.79	1.79	4.29	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 35 + 35	4.60	4.77	1.62	2.02	2.83	2.83	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 35 + 50	4.60	4.77	1.43	1.79	2.50	3.58	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 35 + 35 + 35	4.60	4.77	1.49	2.60	2.60	2.60	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 25	4.60	4.77	2.33	2.33	2.33	2.33	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 35	4.60	4.77	2.11	2.11	2.11	2.96	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 50	4.60	4.77	1.86	1.86	1.86	3.72	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 60	4.60	4.77	1.72	1.72	1.72	4.13	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 35 + 35	4.60	4.77	1.94	1.94	2.71	2.71	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 35 + 50	4.60	4.77	1.72	1.72	2.41	3.44	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 35 + 35 + 35	4.60	4.77	1.79	2.50	2.50	2.50	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 80 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)							Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)				Total capacity (kW)								
		SEER		A	B	C	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		4.00	2.00	-	-	-	1.8	2.0	2.8	480	500	950	2.4	2.3	2.2
	25		3.68	2.50	-	-	-	1.8	2.5	3.4	480	680	1080	3.2	3.1	3.0
	35		3.47	3.50	-	-	-	1.8	3.5	3.9	480	1010	1240	4.7	4.5	4.3
	50		3.27	5.00	-	-	-	1.8	5.0	6.1	480	1530	2100	7.0	6.7	6.4
	60		3.19	6.00	-	-	-	1.8	6.0	7.0	480	1880	2700	8.6	8.3	7.9
2 units	20 + 20		4.76	2.00	2.00	-	-	3.0	4.0	6.1	550	840	1910	4.0	3.8	3.6
	20 + 25		4.55	2.00	2.50	-	-	3.0	4.5	6.4	550	990	2060	4.6	4.4	4.3
	20 + 35		4.17	2.00	3.50	-	-	3.0	5.5	6.9	550	1320	2320	6.1	5.8	5.6
	20 + 50		3.60	2.03	5.07	-	-	3.0	7.1	8.5	550	1970	2830	9.0	8.7	8.3
	20 + 60	7.10	3.31	2.00	6.00	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	25 + 25		4.35	2.50	2.50	-	-	3.0	5.0	6.8	550	1150	2270	5.4	5.1	4.9
	25 + 35		3.78	2.46	3.44	-	-	3.0	5.9	7.2	550	1560	2470	7.2	6.9	6.6
	25 + 50		3.54	2.47	4.93	-	-	3.0	7.4	8.5	550	2090	2830	9.6	9.2	8.8
	25 + 60	7.10	3.31	2.35	5.65	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	35 + 35		3.60	3.55	3.55	-	-	3.0	7.1	8.5	550	1970	2830	9.0	8.7	8.3
	35 + 50	7.10	3.31	3.29	4.71	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	35 + 60	7.10	3.31	2.95	5.05	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	50 + 50	7.10	3.31	4.00	4.00	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	50 + 60	7.10	3.31	3.64	4.36	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	60 + 60	7.10	3.31	4.00	4.00	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
3 units	20 + 20 + 20		4.84	2.00	2.00	2.00	-	3.7	6.0	8.8	670	1240	2830	5.8	5.5	5.3
	20 + 20 + 25		4.68	2.00	2.00	2.50	-	3.7	6.5	8.8	670	1390	2830	6.4	6.1	5.9
	20 + 20 + 35		4.67	1.89	1.89	3.31	-	3.7	7.1	8.8	670	1520	2830	7.0	6.7	6.4
	20 + 20 + 50	7.70	4.19	1.78	1.78	4.44	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 20 + 60	7.70	4.19	1.60	1.60	4.80	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 25 + 25		4.67	2.03	2.54	2.54	-	3.7	7.1	8.8	670	1520	2830	7.0	6.7	6.4
	20 + 25 + 35	7.70	4.19	2.00	2.50	3.50	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 25 + 50	7.70	4.19	1.68	2.11	4.21	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 25 + 60	7.70	4.19	1.52	1.90	4.57	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 35 + 35	7.70	4.19	1.78	3.11	3.11	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 35 + 50	7.70	4.19	1.52	2.67	3.81	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 35 + 60	7.70	4.19	1.39	2.43	4.17	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 50 + 50	7.70	4.19	1.33	3.33	3.33	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 50 + 60	7.70	4.19	1.23	3.08	3.69	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 25 + 25		4.67	2.37	2.37	2.37	-	3.7	7.1	8.8	670	1520	2830	7.0	6.7	6.4
	25 + 25 + 35	7.70	4.19	2.35	2.35	3.29	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 25 + 50	7.70	4.19	2.00	2.00	4.00	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 25 + 60	7.70	4.19	1.82	1.82	4.36	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 35 + 35	7.70	4.19	2.11	2.95	2.95	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 35 + 50	7.70	4.19	1.82	2.55	3.64	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 35 + 60	7.70	4.19	1.67	2.33	4.00	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 50 + 50	7.70	4.19	1.60	3.20	3.20	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 50 + 60	7.70	4.19	1.48	2.96	3.56	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 35 + 35	7.70	4.19	2.67	2.67	2.67	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 35 + 50	7.70	4.19	2.33	2.33	3.33	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 35 + 60	7.70	4.19	2.15	2.15	3.69	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 50 + 50	7.70	4.19	2.07	2.96	2.96	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
4 units	20 + 20 + 20 + 20	8.20	4.71	2.00	2.00	2.00	2.00	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 25	8.20	4.71	1.88	1.88	1.88	2.35	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 35	8.20	4.71	1.68	1.68	1.68	2.95	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 50	8.20	4.71	1.45	1.45	1.45	3.64	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 60	8.20	4.71	1.33	1.33	1.33	4.00	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 25	8.20	4.71	1.78	1.78	2.22	2.22	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 35	8.20	4.71	1.60	1.60	2.00	2.80	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 50	8.20	4.71	1.39	1.39	1.74	3.48	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 60	8.20	4.71	1.28	1.28	1.60	3.84	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 35 + 35	8.20	4.71	1.45	1.45	2.55	2.55	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 35 + 50	8.20	4.71	1.28	1.28	2.24	3.20	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 35 + 60	8.20	4.71	1.19	1.19	2.07	3.56	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 25 + 25	8.20	4.71	1.68	2.11	2.11	2.11	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 25 + 35	8.20	4.71	1.52	1.90	1.90	2.67	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 25 + 50	8.20	4.71	1.33	1.67	1.67	3.33	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 25 + 60	8.20	4.71	1.23	1.54	1.54	3.69	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 35 + 35	8.20	4.71	1.39	1.74	2.43	2.43	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 35 + 50	8.20	4.71	1.23	1.54	2.15	3.08	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 35 + 35 + 35	8.20	4.71	1.28	2.24	2.24	2.24	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 25	8.20	4.71	2.00	2.00	2.00	2.00	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 35	8.20	4.71	1.82	1.82	1.82	2.55	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 50	8.20	4.71	1.60	1.60	1.60	3.20	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 60	8.20	4.71	1.48	1.48	1.48	3.56	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 35 + 35	8.20	4.71	1.67	1.67	2.33	2.33	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 35 + 50	8.20	4.71	1.48	1.48	2.07	2.96	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 35 + 35 + 35	8.20	4.71	1.54	2.15	2.15	2.15	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

MITSUBISHI HEAVY INDUSTRIES

PERFORMANCE TABLES MULTISPLIT R32

SCM 100 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)								Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)					Total capacity (kW)								
		SCOP		A	B	C	D	E	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		2.83	3.00	-	-	-	-	0.9	3.0	3.5	490	1060	1330	5.1	4.8	4.6
	25		2.98	3.40	-	-	-	-	0.9	3.4	4.0	490	1140	1400	5.4	5.2	5.0
	35		3.33	4.50	-	-	-	-	0.9	4.5	4.8	490	1350	1570	6.3	6.1	5.8
	50		3.60	5.80	-	-	-	-	0.9	5.8	6.2	490	1610	1770	7.4	7.1	6.8
	60		3.78	6.80	-	-	-	-	0.9	6.8	7.1	490	1800	1920	8.3	7.9	7.6
	71		3.94	8.00	-	-	-	-	0.9	8.0	8.1	490	2030	2110	9.3	8.9	8.5
	80		4.05	9.00	-	-	-	-	0.9	9.0	9.1	490	2220	2260	10.2	9.7	9.3
2 units	20 + 20		4.62	2.70	2.70	-	-	-	1.2	5.4	7.0	460	1170	1610	5.5	5.2	5.0
	20 + 25		4.50	2.62	3.28	-	-	-	1.2	5.9	7.3	460	1310	1690	6.0	5.8	5.5
	20 + 35		4.37	2.51	4.39	-	-	-	1.2	6.9	7.9	460	1580	1860	7.3	6.9	6.6
	20 + 50		4.13	2.51	6.29	-	-	-	1.2	8.8	9.2	460	2130	2240	9.8	9.4	9.0
	20 + 60		4.03	2.45	7.35	-	-	-	1.2	9.8	10.3	460	2430	2580	11.2	10.7	10.2
	20 + 71	4.10	4.00	2.31	8.19	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	20 + 80	4.10	4.00	2.10	8.40	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	25 + 25		4.44	3.20	3.20	-	-	-	1.2	6.4	7.7	460	1440	1810	6.6	6.3	6.1
	25 + 35		4.26	3.25	4.55	-	-	-	1.2	7.8	8.2	460	1830	1950	8.4	8.0	7.7
	25 + 50		4.11	3.07	6.13	-	-	-	1.2	9.2	9.6	460	2240	2370	10.3	9.8	9.4
	25 + 60		4.00	3.00	7.20	-	-	-	1.2	10.2	10.7	460	2550	2710	11.7	11.2	10.7
	25 + 71	4.10	4.00	2.73	7.77	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	25 + 80	4.10	4.00	2.50	8.00	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	35 + 35		4.13	4.50	4.50	-	-	-	1.2	9.0	9.4	460	2180	2310	10.0	9.6	9.2
	35 + 50		4.02	4.24	6.06	-	-	-	1.2	10.3	10.8	460	2560	2740	11.8	11.2	10.8
	35 + 60	4.10	4.00	3.87	6.63	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	35 + 71	4.10	4.00	3.47	7.03	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	35 + 80	4.10	4.00	3.20	7.30	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	50 + 50	4.10	4.00	5.25	5.25	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	50 + 60	4.10	4.00	4.77	5.73	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	50 + 71	4.10	4.00	4.34	6.16	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	50 + 80	4.10	4.00	4.04	6.46	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	60 + 60	4.10	4.00	5.25	5.25	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	60 + 71	4.10	4.00	4.81	5.69	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	60 + 80	4.10	4.00	4.50	6.00	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	71 + 71	4.10	4.00	5.25	5.25	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	71 + 80	4.10	4.00	4.94	5.56	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
	80 + 80	4.10	4.00	5.25	5.25	-	-	-	1.2	10.5	11.2	460	2620	2900	12.0	11.5	11.0
3 units	20+20+20		4.21	3.00	3.00	3.00	-	-	1.4	9.0	9.6	430	2140	2320	9.8	9.4	9.0
	20+20+25		4.16	2.89	2.89	3.62	-	-	1.4	9.4	10.0	430	2260	2440	10.4	9.9	9.5
	20+20+35		4.13	2.80	2.80	4.90	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+20+50	4.20	4.13	2.33	2.33	5.83	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+20+60	4.20	4.13	2.10	2.10	6.30	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+20+71	4.20	4.13	1.89	1.89	6.72	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+20+80	4.20	4.13	1.75	1.75	7.00	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+25+25		4.13	3.00	3.75	3.75	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+25+35		4.13	2.63	3.28	4.59	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+25+50	4.20	4.13	2.21	2.76	5.53	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+25+60	4.20	4.13	2.00	2.50	6.00	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+35+35	4.20	4.13	2.33	4.08	4.08	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+35+50	4.20	4.13	2.00	3.50	5.00	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+35+60	4.20	4.13	1.83	3.20	5.48	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+35+71	4.20	4.13	1.67	2.92	5.92	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+35+80	4.20	4.13	1.56	2.72	6.22	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+50+50	4.20	4.13	1.75	4.38	4.38	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+50+60	4.20	4.13	1.62	4.04	4.85	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+50+71	4.20	4.13	1.49	3.72	5.29	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+50+80	4.20	4.13	1.40	3.50	5.60	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+60+60	4.20	4.13	1.50	4.50	4.50	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+60+71	4.20	4.13	1.39	4.17	4.94	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	20+60+80	4.20	4.13	1.31	3.94	5.25	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+25+25		4.13	3.50	3.50	3.50	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+25+35		4.13	3.09	3.09	4.32	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+25+50	4.20	4.13	2.63	2.63	5.25	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+25+60	4.20	4.13	2.39	2.39	5.73	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+25+71	4.20	4.13	2.17	2.17	6.16	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+25+80	4.20	4.13	2.02	2.02	6.46	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+35+35	4.20	4.13	2.76	3.87	3.87	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+35+50	4.20	4.13	2.39	3.34	4.77	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+35+60	4.20	4.13	2.19	3.06	5.25	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+35+71	4.20	4.13	2.00	2.81	5.69	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+35+80	4.20	4.13	1.88	2.63	6.00	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+50+50	4.20	4.13	2.10	4.20	4.20	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+50+60	4.20	4.13	1.94	3.89	4.67	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+50+71	4.20	4.13	1.80	3.60	5.11	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+50+80	4.20	4.13	1.69	3.39	5.42	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 100 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)								Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)					Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SCOP		A	B	C	D	E	Min.	Standard	Max.						
3 units	25+60+60	4.20	4.13	1.81	4.34	4.34	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	25+60+71	4.20	4.13	1.68	4.04	4.78	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+35+35	4.20	4.13	3.50	3.50	3.50	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+35+50	4.20	4.13	3.06	3.06	4.38	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+35+60	4.20	4.13	2.83	2.83	4.85	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+35+71	4.20	4.13	2.61	2.61	5.29	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+35+80	4.20	4.13	2.45	2.45	5.60	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+50+50	4.20	4.13	2.72	3.89	3.89	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+50+60	4.20	4.13	2.53	3.62	4.34	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+50+71	4.20	4.13	2.36	3.37	4.78	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	35+60+60	4.20	4.13	2.37	4.06	4.06	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	50+50+50	4.20	4.13	3.50	3.50	3.50	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
	50+50+60	4.20	4.13	3.28	3.28	3.94	-	-	1.4	10.5	11.3	430	2540	2900	11.7	11.2	10.7
4 units	20+20+20+20		4.27	2.63	2.63	2.63	2.63	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+20+25		4.27	2.47	2.47	2.47	3.09	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+20+35	4.40	4.27	2.21	2.21	2.21	3.87	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+20+50	4.40	4.27	1.91	1.91	1.91	4.77	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+20+60	4.40	4.27	1.75	1.75	1.75	5.25	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+20+71	4.40	4.27	1.60	1.60	1.60	5.69	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+20+80	4.40	4.27	1.50	1.50	1.50	6.00	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+25+25	4.40	4.27	2.33	2.33	2.92	2.92	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+25+35	4.40	4.27	2.10	2.10	2.63	3.68	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+25+50	4.40	4.27	1.83	1.83	2.28	4.57	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+25+60	4.40	4.27	1.68	1.68	2.10	5.04	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+25+71	4.40	4.27	1.54	1.54	1.93	5.48	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+25+80	4.40	4.27	1.45	1.45	1.81	5.79	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+35+35	4.40	4.27	1.91	1.91	3.34	3.34	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+35+50	4.40	4.27	1.68	1.68	2.94	4.20	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+35+60	4.40	4.27	1.56	1.56	2.72	4.67	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+35+71	4.40	4.27	1.44	1.44	2.52	5.11	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+35+80	4.40	4.27	1.35	1.35	2.37	5.42	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+50+50	4.40	4.27	1.50	1.50	3.75	3.75	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+50+60	4.40	4.27	1.40	1.40	3.50	4.20	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+20+60+60	4.40	4.27	1.31	1.31	3.94	3.94	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+25+25	4.40	4.27	2.21	2.76	2.76	2.76	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+25+35	4.40	4.27	2.00	2.50	2.50	3.50	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+25+50	4.40	4.27	1.75	2.19	2.19	4.38	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+25+60	4.40	4.27	1.62	2.02	2.02	4.85	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+25+71	4.40	4.27	1.49	1.86	1.86	5.29	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+25+80	4.40	4.27	1.40	1.75	1.75	5.60	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+35+35	4.40	4.27	1.83	2.28	3.20	3.20	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+35+50	4.40	4.27	1.62	2.02	2.83	4.04	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+35+60	4.40	4.27	1.50	1.88	2.63	4.50	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+35+71	4.40	4.27	1.39	1.74	2.43	4.94	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+35+80	4.40	4.27	1.31	1.64	2.30	5.25	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+50+50	4.40	4.27	1.45	1.81	3.62	3.62	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+25+50+60	4.40	4.27	1.35	1.69	3.39	4.06	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+35+35+35	4.40	4.27	1.68	2.94	2.94	2.94	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+35+35+50	4.40	4.27	1.50	2.63	2.63	3.75	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+35+35+60	4.40	4.27	1.40	2.45	2.45	4.20	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	20+35+50+50	4.40	4.27	1.35	2.37	3.39	3.39	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+25+25	4.40	4.27	2.63	2.63	2.63	2.63	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+25+35	4.40	4.27	2.39	2.39	2.39	3.34	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+25+50	4.40	4.27	2.10	2.10	2.10	4.20	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+25+60	4.40	4.27	1.94	1.94	1.94	4.67	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+25+71	4.40	4.27	1.80	1.80	1.80	5.11	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+25+80	4.40	4.27	1.69	1.69	1.69	5.42	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+35+35	4.40	4.27	2.19	2.19	3.06	3.06	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+35+50	4.40	4.27	1.94	1.94	2.72	3.89	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+35+60	4.40	4.27	1.81	1.81	2.53	4.34	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+35+71	4.40	4.27	1.68	1.68	2.36	4.78	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+50+50	4.40	4.27	1.75	1.75	3.50	3.50	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+25+50+60	4.40	4.27	1.64	1.64	3.28	3.94	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+35+35+35	4.40	4.27	2.02	2.83	2.83	2.83	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+35+35+50	4.40	4.27	1.81	2.53	2.53	3.62	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+35+35+60	4.40	4.27	1.69	2.37	2.37	4.06	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	25+35+50+50	4.40	4.27	1.64	2.30	3.28	3.28	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	35+35+35+35	4.40	4.27	2.63	2.63	2.63	2.63	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4
	35+35+35+50	4.40	4.27	2.37	2.37	2.37	3.39	-	1.6	10.5	11.4	400	2460	2900	11.3	10.8	10.4

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 100 ZS-W

HEATING		Seasonal energy efficiency	COP	Heating capacity (kW)								Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)					Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SCOP		A	B	C	D	E	Min.	Standard	Max.						
5 units	20+20+20+20+20	4.50	4.41	2.10	2.10	2.10	2.10	2.10	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+20+25	4.50	4.41	2.00	2.00	2.00	2.00	2.50	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+20+35	4.50	4.41	1.83	1.83	1.83	1.83	3.20	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+20+50	4.50	4.41	1.62	1.62	1.62	1.62	4.04	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+20+60	4.50	4.41	1.50	1.50	1.50	1.50	4.50	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+25+25	4.50	4.41	1.91	1.91	1.91	2.39	2.39	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+25+35	4.50	4.41	1.75	1.75	1.75	2.19	3.06	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+25+50	4.50	4.41	1.56	1.56	1.56	1.94	3.89	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+25+60	4.50	4.41	1.45	1.45	1.45	1.81	4.34	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+35+35	4.50	4.41	1.62	1.62	1.62	2.83	2.83	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+35+50	4.50	4.41	1.45	1.45	1.45	2.53	3.62	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+20+35+60	4.50	4.41	1.35	1.35	1.35	2.37	4.06	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+25+25+25	4.50	4.41	1.83	1.83	2.28	2.28	2.28	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+25+25+35	4.50	4.41	1.68	1.68	2.10	2.10	2.94	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+25+25+50	4.50	4.41	1.50	1.50	1.88	1.88	3.75	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+25+25+60	4.50	4.41	1.40	1.40	1.75	1.75	4.20	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+25+35+35	4.50	4.41	1.56	1.56	1.94	2.72	2.72	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+25+35+50	4.50	4.41	1.40	1.40	1.75	2.45	3.50	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+25+35+60	4.50	4.41	1.31	1.31	1.64	2.30	3.94	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+35+35+35	4.50	4.41	1.45	1.45	2.53	2.53	2.53	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+20+35+35+50	4.50	4.41	1.31	1.31	2.30	2.30	3.28	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+25+25+25+25	4.50	4.41	1.75	2.19	2.19	2.19	2.19	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+25+25+25+35	4.50	4.41	1.62	2.02	2.02	2.02	2.83	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+25+25+25+50	4.50	4.41	1.45	1.81	1.81	1.81	3.62	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+25+25+25+60	4.50	4.41	1.35	1.69	1.69	1.69	4.06	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+25+25+35+35	4.50	4.41	1.50	1.88	1.88	2.63	2.63	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+25+25+35+50	4.50	4.41	1.35	1.69	1.69	2.37	3.39	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+25+35+35+35	4.50	4.41	1.40	1.75	2.45	2.45	2.45	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	20+35+35+35+35	4.50	4.41	1.31	2.30	2.30	2.30	2.30	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	25+25+25+25+25	4.50	4.41	2.10	2.10	2.10	2.10	2.10	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	25+25+25+25+35	4.50	4.41	1.94	1.94	1.94	1.94	2.72	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	25+25+25+25+50	4.50	4.41	1.75	1.75	1.75	1.75	3.50	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	25+25+25+25+60	4.50	4.41	1.64	1.64	1.64	1.64	3.94	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	25+25+25+35+35	4.50	4.41	1.81	1.81	1.81	2.53	2.53	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	25+25+25+35+50	4.50	4.41	1.64	1.64	1.64	2.30	3.28	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0
	25+25+35+35+35	4.50	4.41	1.69	1.69	2.37	2.37	2.37	1.8	10.5	11.5	370	2380	2900	10.9	10.5	10.0

SCOP = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
COP = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 100 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)								Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)					Total capacity (kW)								
		SEER		A	B	C	D	E	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
1 unit	20		3.77	2.00	-	-	-	-	1.7	2.0	2.7	500	530	950	2.5	2.4	2.3
	25		3.62	2.50	-	-	-	-	1.7	2.5	3.2	500	690	1008	3.3	3.1	3.0
	35		3.47	3.50	-	-	-	-	1.7	3.5	3.7	500	1010	1340	4.8	4.6	4.4
	50		3.36	5.00	-	-	-	-	1.7	5.0	5.8	500	1490	1730	6.9	6.6	6.3
	60		3.31	6.00	-	-	-	-	1.7	6.0	6.7	500	1810	1990	8.3	8.0	7.6
	71		3.27	7.10	-	-	-	-	1.7	7.1	7.2	500	2170	2270	10.1	9.6	9.2
	80		3.27	8.00	-	-	-	-	1.7	8.0	8.1	500	2450	2500	11.4	10.9	10.4
2 units	20 + 20		4.71	2.00	2.00	-	-	-	1.9	4.0	5.8	495	850	1430	4.0	3.8	3.7
	20 + 25		4.46	2.00	2.50	-	-	-	1.9	4.5	6.1	495	1010	1540	4.7	4.5	4.3
	20 + 35		4.14	2.00	3.50	-	-	-	1.9	5.5	6.6	495	1330	1720	6.2	5.9	5.7
	20 + 50		3.72	2.00	5.00	-	-	-	1.9	7.0	7.7	495	1880	2170	8.6	8.2	7.9
	20 + 60		3.48	2.00	6.00	-	-	-	1.9	8.0	8.8	495	2300	2690	10.7	10.2	9.8
	20 + 71	6.60	3.19	2.00	7.10	-	-	-	1.9	9.1	10.0	495	2850	3420	13.2	12.6	12.1
	20 + 80	6.60	2.90	2.00	8.00	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	25 + 25		4.27	2.50	2.50	-	-	-	1.9	5.0	6.5	495	1170	1690	5.4	5.2	5.0
	25 + 35		3.75	2.50	3.50	-	-	-	1.9	6.0	6.8	495	1600	1800	7.4	7.1	6.8
	25 + 50		3.61	2.50	5.00	-	-	-	1.9	7.5	8.4	495	2080	2490	9.6	9.2	8.8
	25 + 60		3.23	2.50	6.00	-	-	-	1.9	8.5	9.4	495	2630	3020	12.2	11.7	11.2
	25 + 71	6.60	3.06	2.50	7.10	-	-	-	1.9	9.6	10.2	495	3140	3570	14.6	13.9	13.4
	25 + 80	6.60	2.90	2.38	7.62	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	35 + 35		3.72	3.50	3.50	-	-	-	1.9	7.0	7.7	495	1880	2170	8.6	8.2	7.9
	35 + 50		3.23	3.50	5.00	-	-	-	1.9	8.5	9.4	495	2630	3020	12.2	11.7	11.2
	35 + 60	6.60	3.08	3.50	6.00	-	-	-	1.9	9.5	10.2	495	3080	3570	14.3	13.7	13.1
	35 + 71	6.60	2.90	3.30	6.70	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	35 + 80	6.60	2.90	3.04	6.96	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	50 + 50	6.60	2.90	5.00	5.00	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	50 + 60	6.60	2.90	4.55	5.45	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	50 + 71	6.60	2.90	4.13	5.87	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	50 + 80	6.60	2.90	3.85	6.15	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	60 + 60	6.60	2.90	5.00	5.00	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	60 + 71	6.60	2.90	4.58	5.42	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	60 + 80	6.60	2.90	4.29	5.71	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	71 + 71	6.60	2.90	5.00	5.00	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	71 + 80	6.60	2.90	4.70	5.30	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
	80 + 80	6.60	2.90	5.00	5.00	-	-	-	1.9	10.0	10.3	495	3450	3650	16.0	15.3	14.7
3 units	20+20+20		4.20	2.00	2.00	2.00	-	-	2.1	6.0	7.4	490	1430	1930	6.6	6.3	6.1
	20+20+25		4.06	2.00	2.00	2.50	-	-	2.1	6.5	7.7	490	1600	2050	7.4	7.1	6.8
	20+20+35		3.81	2.00	2.00	3.50	-	-	2.1	7.5	8.6	490	1970	2430	9.1	8.7	8.4
	20+20+50	7.30	3.45	2.00	2.00	5.00	-	-	2.1	9.0	9.6	490	2610	2920	12.1	11.6	11.1
	20+20+60	7.30	3.10	2.00	2.00	6.00	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+20+71	7.30	3.10	1.80	1.80	6.40	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+20+80	7.30	3.10	1.67	1.67	6.67	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+25+25		3.93	2.00	2.50	2.50	-	-	2.1	7.0	8.0	490	1780	2170	8.2	7.8	7.5
	20+25+35		3.69	2.00	2.50	3.50	-	-	2.1	8.0	9.0	490	2170	2160	10.1	9.6	9.2
	20+25+50	7.30	3.31	2.00	2.50	5.00	-	-	2.1	9.5	10.3	490	2870	3340	13.3	12.7	12.2
	20+25+60	7.30	3.10	1.90	2.38	5.71	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+35+35	7.30	3.45	2.00	3.50	3.50	-	-	2.1	9.0	9.6	490	2610	2920	12.1	11.6	11.1
	20+35+50	7.30	3.10	1.90	3.33	4.76	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+35+60	7.30	3.10	1.74	3.04	5.22	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+35+71	7.30	3.10	1.59	2.78	5.63	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+35+80	7.30	3.10	1.48	2.59	5.93	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+50+50	7.30	3.10	1.67	4.17	4.17	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+50+60	7.30	3.10	1.54	3.85	4.62	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+50+71	7.30	3.10	1.42	3.55	5.04	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+50+80	7.30	3.10	1.33	3.33	5.33	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+60+60	7.30	3.10	1.43	4.29	4.29	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+60+71	7.30	3.10	1.32	3.97	4.70	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	20+60+80	7.30	3.10	1.25	3.75	5.00	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+25+25		3.81	2.50	2.50	2.50	-	-	2.1	7.5	8.6	490	1970	2430	9.1	8.7	8.4
	25+25+35		3.57	2.50	2.50	3.50	-	-	2.1	8.5	9.2	490	2380	2710	11.0	10.6	10.1
	25+25+50	7.30	3.10	2.50	2.50	5.00	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+25+60	7.30	3.10	2.27	2.27	5.45	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+25+71	7.30	3.10	2.07	2.07	5.87	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+25+80	7.30	3.10	1.92	1.92	6.15	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+35+35	7.30	3.31	2.50	3.50	3.50	-	-	2.1	9.5	10.3	490	2870	3340	13.3	12.7	12.2
	25+35+50	7.30	3.10	2.27	3.18	4.55	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+35+60	7.30	3.10	2.08	2.92	5.00	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+35+71	7.30	3.10	1.91	2.67	5.42	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+35+80	7.30	3.10	1.79	2.50	5.71	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+50+50	7.30	3.10	2.00	4.00	4.00	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+50+60	7.30	3.10	1.85	3.70	4.44	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+50+71	7.30	3.10	1.71	3.42	4.86	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+50+80	7.30	3.10	1.61	3.23	5.16	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 100 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)								Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)					Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SEER		A	B	C	D	E	Min.	Standard	Max.						
3 units	25+60+60	7.30	3.10	1.72	4.14	4.14	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	25+60+71	7.30	3.10	1.60	3.85	4.55	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+35+35	7.30	3.10	3.33	3.33	3.33	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+35+50	7.30	3.10	2.92	2.92	4.17	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+35+60	7.30	3.10	2.69	2.69	4.62	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+35+71	7.30	3.10	2.48	2.48	5.04	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+35+80	7.30	3.10	2.33	2.33	5.33	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+50+50	7.30	3.10	2.59	3.70	3.70	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+50+60	7.30	3.10	2.41	3.45	4.14	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+50+71	7.30	3.10	2.24	3.21	4.55	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	35+60+60	7.30	3.10	2.26	3.87	3.87	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	50+50+50	7.30	3.10	3.33	3.33	3.33	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
	50+50+60	7.30	3.10	3.13	3.13	3.75	-	-	2.1	10.0	10.7	490	3230	3650	15.0	14.3	13.7
4 units	20+20+20+20		3.96	2.00	2.00	2.00	2.00	-	2.3	8.0	8.8	485	2020	2330	9.4	9.0	8.6
	20+20+20+25		3.85	2.00	2.00	2.00	2.50	-	2.3	8.5	9.4	485	2210	2590	10.3	9.8	9.4
	20+20+20+35	7.90	3.60	2.00	2.00	2.00	3.50	-	2.3	9.5	10.5	485	2640	3150	12.2	11.7	11.2
	20+20+20+50	7.90	3.39	1.82	1.82	1.82	4.55	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+20+60	7.90	3.39	1.67	1.67	1.67	5.00	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+20+71	7.90	3.39	1.53	1.53	1.53	5.42	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+20+80	7.90	3.39	1.43	1.43	1.43	5.71	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+25+25	7.90	3.72	2.00	2.00	2.50	2.50	-	2.3	9.0	9.9	485	2420	2830	11.2	10.7	10.3
	20+20+25+35	7.90	3.39	2.00	2.00	2.50	3.50	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+25+50	7.90	3.39	1.74	1.74	2.17	4.35	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+25+60	7.90	3.39	1.60	1.60	2.00	4.80	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+25+71	7.90	3.39	1.47	1.47	1.84	5.22	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+25+80	7.90	3.39	1.38	1.38	1.72	5.52	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+35+35	7.90	3.39	1.82	1.82	3.18	3.18	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+35+50	7.90	3.39	1.60	1.60	2.80	4.00	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+35+60	7.90	3.39	1.48	1.48	2.59	4.44	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+35+71	7.90	3.39	1.37	1.37	2.40	4.86	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+35+80	7.90	3.39	1.29	1.29	2.26	5.16	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+50+50	7.90	3.39	1.43	1.43	3.57	3.57	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+50+60	7.90	3.39	1.33	1.33	3.33	4.00	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+20+60+60	7.90	3.39	1.25	1.25	3.75	3.75	-	2.3	10.0	11.3	485	2950	3650	13.7	13.1	12.5
	20+25+25+25	7.90	3.60	2.00	2.50	2.50	2.50	-	2.3	9.5	10.5	485	2640	3150	12.2	11.7	11.2
	20+25+25+35	7.90	3.39	1.90	2.38	2.38	3.33	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+25+50	7.90	3.39	1.67	2.08	2.08	4.17	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+25+60	7.90	3.39	1.54	1.92	1.92	4.62	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+25+71	7.90	3.39	1.42	1.77	1.77	5.04	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+25+80	7.90	3.39	1.33	1.67	1.67	5.33	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+35+35	7.90	3.39	1.74	2.17	3.04	3.04	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+35+50	7.90	3.39	1.54	1.92	2.69	3.85	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+35+60	7.90	3.39	1.43	1.79	2.50	4.29	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+35+71	7.90	3.39	1.32	1.66	2.32	4.70	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+35+80	7.90	3.39	1.25	1.56	2.19	5.00	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+50+50	7.90	3.39	1.38	1.72	3.45	3.45	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+25+50+60	7.90	3.39	1.29	1.61	3.23	3.87	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+35+35+35	7.90	3.39	1.60	2.80	2.80	2.80	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+35+35+50	7.90	3.39	1.43	2.50	2.50	3.57	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+35+35+60	7.90	3.39	1.33	2.33	2.33	4.00	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	20+35+50+50	7.90	3.39	1.29	2.26	3.23	3.23	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+25+25	7.90	3.39	2.50	2.50	2.50	2.50	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+25+35	7.90	3.39	2.27	2.27	2.27	3.18	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+25+50	7.90	3.39	2.00	2.00	2.00	4.00	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+25+60	7.90	3.39	1.85	1.85	1.85	4.44	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+25+71	7.90	3.39	1.71	1.71	1.71	4.86	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+25+80	7.90	3.39	1.61	1.61	1.61	5.16	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+35+35	7.90	3.39	2.08	2.08	2.92	2.92	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+35+50	7.90	3.39	1.85	1.85	2.59	3.70	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+35+60	7.90	3.39	1.72	1.72	2.41	4.14	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+35+71	7.90	3.39	1.60	1.60	2.24	4.55	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+50+50	7.90	3.39	1.67	1.67	3.33	3.33	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+25+50+60	7.90	3.39	1.56	1.56	3.13	3.75	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+35+35+35	7.90	3.39	1.92	2.69	2.69	2.69	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+35+35+50	7.90	3.39	1.72	2.41	2.41	3.45	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+35+35+60	7.90	3.39	1.61	2.26	2.26	3.87	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	25+35+50+50	7.90	3.39	1.56	2.19	3.13	3.13	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	35+35+35+35	7.90	3.39	2.50	2.50	2.50	2.50	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5
	35+35+35+50	7.90	3.39	2.26	2.26	2.26	3.23	-	2.3	10.0	11.1	485	2950	3650	13.7	13.1	12.5

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

PERFORMANCE TABLES MULTISPLIT R32

SCM 100 ZS-W

COOLING		Seasonal energy efficiency	EER	Cooling capacity (kW)								Power input (W)			Rated current (A)		
Combined units				Capacity for each room (kW)					Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		SEER		A	B	C	D	E	Min.	Standard	Max.						
5 units	20+20+20+20+20	8.60	3.70	2.00	2.00	2.00	2.00	2.00	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+20+25	8.60	3.70	1.90	1.90	1.90	1.90	2.38	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+20+35	8.60	3.70	1.74	1.74	1.74	1.74	3.04	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+20+50	8.60	3.70	1.54	1.54	1.54	1.54	3.85	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+20+60	8.60	3.70	1.43	1.43	1.43	1.43	4.29	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+25+25	8.60	3.70	1.82	1.82	1.82	2.27	2.27	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+25+35	8.60	3.70	1.67	1.67	1.67	2.08	2.92	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+25+50	8.60	3.70	1.48	1.48	1.48	1.85	3.70	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+25+60	8.60	3.70	1.38	1.38	1.38	1.72	4.14	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+35+35	8.60	3.70	1.54	1.54	1.54	2.69	2.69	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+35+50	8.60	3.70	1.38	1.38	1.38	2.41	3.45	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+20+35+60	8.60	3.70	1.29	1.29	1.29	2.26	3.87	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+25+25+25	8.60	3.70	1.74	1.74	2.17	2.17	2.17	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+25+25+35	8.60	3.70	1.60	1.60	2.00	2.00	2.80	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+25+25+50	8.60	3.70	1.43	1.43	1.79	1.79	3.57	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+25+25+60	8.60	3.70	1.33	1.33	1.67	1.67	4.00	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+25+35+35	8.60	3.70	1.48	1.48	1.85	2.59	2.59	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+25+35+50	8.60	3.70	1.33	1.33	1.67	2.33	3.33	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+25+35+60	8.60	3.70	1.25	1.25	1.56	2.19	3.75	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+35+35+35	8.60	3.70	1.38	1.38	2.41	2.41	2.41	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+20+35+35+50	8.60	3.70	1.25	1.25	2.19	2.19	3.13	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+25+25+25+25	8.60	3.70	1.67	2.08	2.08	2.08	2.08	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+25+25+25+35	8.60	3.70	1.54	1.92	1.92	1.92	2.69	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+25+25+25+50	8.60	3.70	1.38	1.72	1.72	1.72	3.45	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+25+25+25+60	8.60	3.70	1.29	1.61	1.61	1.61	3.87	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+25+25+35+35	8.60	3.70	1.43	1.79	1.79	2.50	2.50	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+25+25+35+50	8.60	3.70	1.29	1.61	1.61	2.26	3.23	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+25+35+35+35	8.60	3.70	1.33	1.67	2.33	2.33	2.33	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	20+35+35+35+35	8.60	3.70	1.25	2.19	2.19	2.19	2.19	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	25+25+25+25+25	8.60	3.70	2.00	2.00	2.00	2.00	2.00	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	25+25+25+25+35	8.60	3.70	1.85	1.85	1.85	1.85	2.59	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	25+25+25+25+50	8.60	3.70	1.67	1.67	1.67	1.67	3.33	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	25+25+25+25+60	8.60	3.70	1.56	1.56	1.56	1.56	3.75	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	25+25+25+35+35	8.60	3.70	1.72	1.72	1.72	2.41	2.41	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	25+25+25+35+50	8.60	3.70	1.56	1.56	1.56	2.19	3.13	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4
	25+25+35+35+35	8.60	3.70	1.61	1.61	2.26	2.26	2.26	2.5	10.0	11.5	480	2700	3650	12.4	11.9	11.4

SEER = EU Regulation N. 206/2012 – Value measured in according to harmonized rule EN14825.
EER = Value measured in according to harmonized rule EN 14511.

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Due to the continuous technological evolution of the products, we reserve the right to vary the technical specifications within this catalog at any time and without giving notice. The products depicted are only examples of the application types. The data is measured under the following conditions (ISO-T1). Cooling: internal ambient temperature 27°C DB, 19°C WB and external temperature 35°C DB; heating: internal ambient temperature 20° C DB, and external temperature 7° C DB, 6° C WB. The energy efficiency values refer to measurements carried out following the harmonized standard EN 14511:3.

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