ZYMETRIC

PRODUCT CATALOGUE 20/21



zymetric.pl

Midea

AIR-CONDITIONING

Discover Midea

OFFER GENERATOR 2020



An offer is ready in **JUST 2 min.**

.01 **Create offers** for Customers with logos of Midea and your own company

.02 Select **products**, add **prices**, specify **conditions**

.03 **Specifications of products** appear automatically

.04 **Offer archive**: save, print, send, edit at any time

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See how **simple** it is!

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ZYMETRIC

Midea

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CONTROL SYSTEM 140
.HOME .MULTI .BUSINESS .TECH

Midea **.OUTDOOR UNITS** 154
for air-handling units

Midea **.VRF** outdoor units 162

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.VRF CONTROL SYSTEM 306

Units technical specifications as at the day of publication.
The manufacturer reserves the right to implement changes in specifications without prior notice.
The units contain fluorinated greenhouse gases (R32 GWP=675, R410A GWP=2088).

World's No.1 BRAND OF AIR TREATMENT PRODUCTS

THE BLUE ANGEL ENVIRONMENTAL LABEL JURY

LAUR KLIENTA 2020

ZYMETRIC

we alter the face of

HVAC



11
regional offices in Poland

over
10 YEARS
of experience

training and service **INFRA-STRUCTURE**

5000+
of completed investments

Midea

MIDEA Group

World's No.1 BRAND OF AIR TREATMENT PRODUCTS

THE WORLD'S NO. 1 BRAND

among refrigerating and air-conditioning appliances
(according to the Euromonitor research)*



Midea

HVAC

worldwide leader
in HVAC and home appliance manufacture

more than
50 years
of experience

FORTUNE 500
on the list of the World's largest companies

AWARDS AND CERTIFICATES

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

PZH PRODUKT Z ATESTEM

LAUR KLIENTA 2020

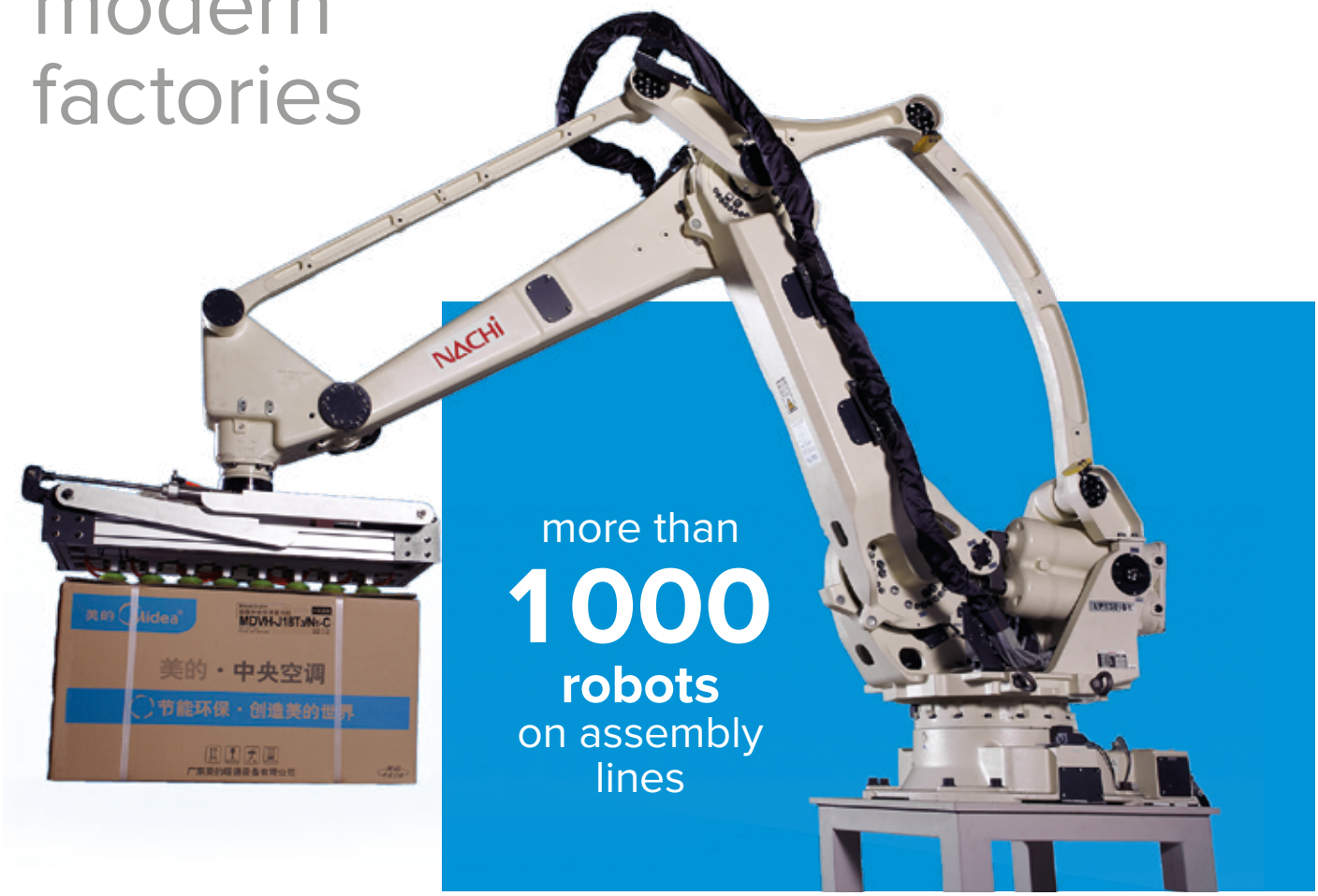
reddot

GOOD DESIGN

Forbes 2019 GLOBAL 2000 WORLD'S LARGEST PUBLIC COMPANIES

* World's No. 1 Brand of Air Treatment Products
- according to the Euromonitor research, based on the volume of retail sales in year 2019.

MIDEA 4.0
modern factories



more than
1000
robots
on assembly lines

assembly lines
automation



quality control

7 sec
to produce
a remote controller



Midea

HVAC TECHNOLOGY LEADER





over
26 000
technology
patents

more than
1300
specialists
and engineers





Advanced Technology, Research and Development Centre in Osaka /Japan/





THE BLUE ANGEL CERTIFICATE
World's 1st Air Conditioner

Midea units with R290 refrigerant have been awarded with a prestigious and the most widely recognized **The Blue Angel certificate**, issued by the German environmental protection agency. These highly energy efficient units contribute to the significant reduction of the greenhouse effect.

Energy Star – an international program that promotes energy efficient products and reduction of greenhouse gas emission.

CARING FOR THE PLANET EARTH

Midea units use the new generation refrigerants, which do not deplete the ozone layer and have a high impact on units performance and energy saving.

New F-gas regulations successively implement procedures aimed at minimizing the production of greenhouse gases. The use of refrigerants with GWP values over 750 shall be prohibited from year 2025. R32 has a low toxicity, low GWP value and very high energy efficiency. It belongs to a category of refrigerants with lower flammability (2L class according to ISO 817 standard) and can be safely used in air-conditioners and heat pumps.

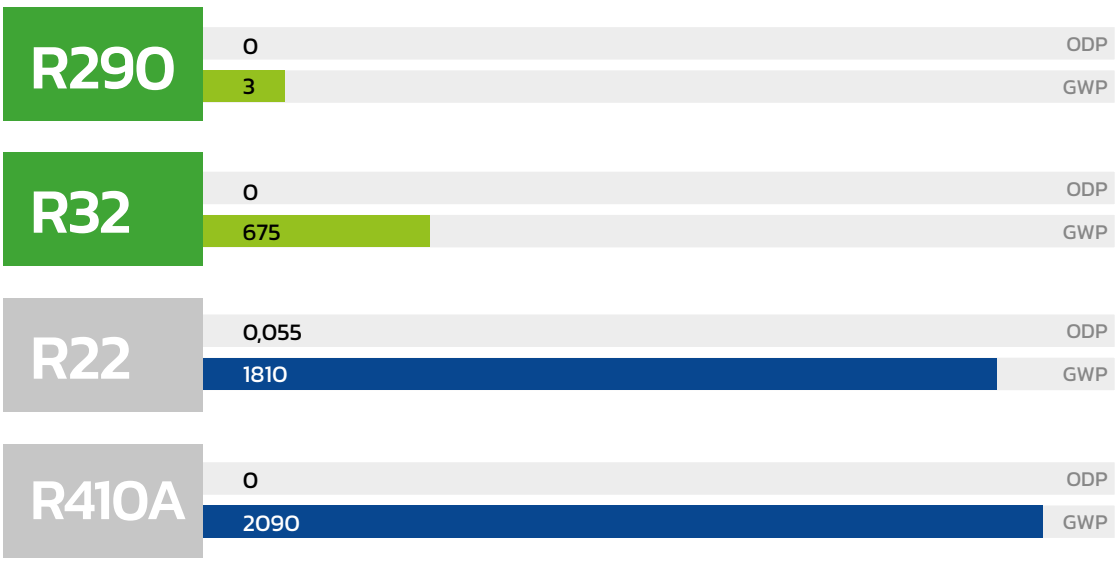
10 %

higher energy efficiency

of the units

COMPARISON OF REFRIGERANTS

ODP: Ozone Depletion Potential | **GWP**: Global Warming Potential





BreezeleSS+ style icon

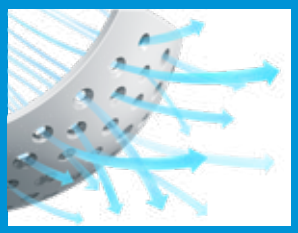
CLASS A+++

R32 ECO



Coanda effect

With Coanda effect, the cold air is directed upwards and then it evenly falls downwards. Now you may provide yourself with pleasant and gentle coolness, without the risk of feeling “cold neck”.



Wind Sprayer

With thousands of small holes in a special Wind Sprayer louver, the uniform airstream become dispersed. Even at the highest speed, the air discharged from the unit is like a gentle breeze of wind.

XTREME SAVE WARMER

HEAT IN THE COLDEST FROST

ALL-YEAR-ROUND operation

drain pan HEATER

-30°C in HEAT mode



multi COMFORT

more info on p. 68

HOT WATER AND SPACE COOLING IN ONE SYSTEM



dR.Smart

SERVICE INTERFACE

FOR FAST AND EFFECTIVE TROUBLESHOOTING

more info on page 153



Midea



NEW
2020

more info on p. 118

M-THERMAL

EFFICIENT HEATING SYSTEM
MONO AND SPLIT

DIRECT CONNECTION OF CENTRAL CONTROLLERS

more info on p. 313



INVERTER QUATTRO



INVERTER QUATTRO
combines 4 functionalities:

GEAR and iECO

Flash Cooling/Heating

Operation in extreme conditions

Stepless control

- **Gear and iECO** – due to the possibility of adjusting the compressor operation and supplied air temperature, the energy consumption can be controlled by the user who also decides about the maximum intensity of unit's operation.
- **Flash Cooling/Heating** – it only takes 30 seconds to cool down/heat up the room, regardless of outdoor conditions.
- **Operation in extreme conditions** – operating range for outdoor temperatures: -25 ~ +50˚C.
- **Stepless control** – faster adaptation of unit capacity to the cooling or heating load.

Midea

HEAT RECOVERY TECHNOLOGY V6R



NEW 2020

up to 150 kW capacity

high performance **EVI compressor**

heat **recovery**

100% refrigerant load

data recorder last 30 min. of operation register

Versatility of application

possibility to connect: D.H.W. hydraulic module, air-handling units, air-curtains, fresh air supply

PRESTIGIOUS FACILITIES
in Poland and in the world



POZNAŃ

PALACZA OFFICE CENTRE



WARSZAWA

HOTEL BEST WESTERN



KRAKÓW

KS BIEŻANOWIANKA



LUBLIN

POINT 75 OFFICE BUILDING



BRAZIL

COMMERCIAL CENTRE



MALAYSIA

LAKE FRONT RESIDENCE



UNITED ARAB EMIRATES

AIN AL-FAYDA



RUSSIA

FIFA ‘18 WORLD CUP STADIUM



BIELSKO-BIAŁA

PANATTONI PARK



WROCŁAW

TOWN HALL



KOWALE

METROPOLITAN SCHOOL

FUNCTIONS



RELIABILITY



AUTO-DIAGNOSIS – Air-conditioner's microcomputer monitors undesired operation or malfunction and automatically turns the unit off. An error or protection code shall be displayed on the indoor unit's control panel.



REFRIGERANT LEAKAGE DETECTION – This function allows the indoor unit to display an error code when the outdoor unit detects refrigerant leakage.



OPERATION IN LOW AMBIENT TEMPERATURE – The air-conditioner is equipped with a kit enabling operation in low ambient temperature. This kit provides operation in cooling/heating recommended operating range.



DRAIN PAN HEATER – The heater installed on the outdoor unit drain pan prevents water from freezing and guarantees its free drainage, ensuring efficient operation of the unit in temperatures below -30°C.



SMART CONTROL OF THE OPERATION IN LOW AMBIENT TEMPERATURES – The outdoor unit checks the state of refrigerant thermodynamic process in the heat exchanger and decides about switching the fan on.

COMFORT



TURBO MODE – This function allows to achieve the desired cooling effect quicker, and at the same time, the set room temperature is reached faster.



5 SPEEDS OF OUTDOOR UNIT'S FAN – With inverter technology, the outdoor unit has 5 operation modes, that increase system energy efficiency.



TEMPERATURE COMPENSATION – Various heights of indoor unit installation causes a difference of temperature sensor reading in relation to the real room temperature above the floor. This difference can be compensated by exchanging the combination of wire connection on the PCB board.



PYROMETRIC TEMPERATURE MEASUREMENT – A sensor, which makes the pyrometric measurement of the body temperature of person occupying the room. Depending on this temperature, the air-conditioner adjusts room temperature by decreasing the fan rotational speed.



COLD AIR-FLOW SENSOR – The unit automatically decreases fan rotations during start-up of operation in the heat mode, in order to avoid cold air-flow and user discomfort.



8°C HEATING – In the heating mode, the unit can maintain minimum temperature hold of 8°C. This protects the room from considerable cooling down during longer periods of user absence.



3D AIR-FLOW – Automatic, vertical and horizontal swing function, which provides more even and comfortable air-flow.



FOLLOW ME FUNCTION – The temperature sensor is built in the wireless remote controller. Therefore, the temperature measurement may be taken closer to the user and the air-conditioner operation shall be more precisely adapted to real conditions in a room.



HEAT PUMP – Units operate as the reversible heat pumps, successfully providing thermal comfort, even at very low ambient temperatures.

ENERGY SAVING



ECO FUNCTION – Thanks to the smart technology of switching the unit into ECO mode, we can gain 60% energy saving by reducing the electric current consumption.



1W STANDBY FUNCTION – This function allows the unit to automatically turn into energy save mode, reducing input power to 1W - resulting in approx. 60% savings.



GEAR MODE – The air-conditioner precisely adjusts compressor operating frequency and air supply temperature, in order to achieve the highest energy efficiency and comfort in the room.



SLEEP MODE – This function allows the air-conditioner to increase (cooling) or decrease (heating) the set temperature.



SMART MODULATION OF FAN SPEED – Application of 12 speeds of the outdoor unit fan makes the air-flow adjustment more precise and allows to individually adapt comfort conditions in a room.

CONVENIENCE



2 WAY PIPING CONNECTION – Refrigerant piping as well as drainage installation can be connected from both sides of the indoor unit.



LOUVER POSITION MEMORY – After the unit is restarted, the louvers will automatically return to the most recent position.



MONO & MULTI – Indoor unit can be applied both in Split and Multi systems.



AUTO RESTART – In case of power failure, the air-conditioner saves the last settings and restores them automatically after power is resumed.



HORIZONTAL/VERTICAL LOUVERS – Horizontal or vertical louver swing provides air distribution in both planes, ensuring comfort in the whole room.



BUILT-IN DRAIN PUMP – The built-in drain pump with a lift height up to 750 mm, facilitates flexible connection of the drain hose in the space above the suspended ceiling.



EASY PANEL CLEANING – Front panel design and easy way of its disassembly make the indoor unit cleaning and maintenance easy.

HEALTH



HIGH DENSITY FILTER – In comparison to the common dust filters, high density filters efficiency can rise above 50%, and capability of removing dust and pollens up to 80%.



SUPER AIR IONISER – Releases positive and negative ions, neutralises unpleasant odours, dust, smoke and pollens, providing fresh and healthy air.



BIOHEPA FILTER – It is made of material with pores size of 0,3µm. By using the bioHEPA filters in air-conditioning, 99% of particles down to 0,3µm can be captured. This filter stops fungal cells (including mold), up to 95% of bacteria and some of the viruses, which contributes to the effect of sterilisation and air purity.



CATALYTIC FILTER – Removes formaldehyde and other volatile organic compounds (VOC) as well as harmful gases and odours.



FRESH AIR – Indoor units are equipped with a special opening that enables connection of the duct supplying fresh air to a room, making conditions inside the building even more comfortable.



FILTER WITH ACTIVE CARBON – The filter traps the fine particles, bacteria and fungi, making the conditioned space full of healthy and clean air.



FILTER WITH VITAMIN C – Releases vitamin C - active antioxidant factor, working nutritionally for the skin.



ANTI-MITES FILTER – Catches smaller dust and dirt particles, which contain the biggest amount of mite allergens.



SELF-CLEANING FUNCTION – This process cleans indoor unit and prevents bacterial growth. With this function, the indoor unit starts in cooling mode at low fan speed, while the condensed water gathers part of dust accumulated on exchanger fins. Next, the unit turns into heating mode and as a result, its interior is dried. At the end, the unit operation is switched to fan mode and the moisture air is being blown out.

CONTROL



WIRED REMOTE CONTROLLER – The controller is permanently attached to a wall, to prevent it from being lost. Furthermore, depending on its Type, it has many useful functions that allow to adjust comfort conditions in a room.



TIMER – Operation time settings can be enabled or disabled within 24 hours.



REMOTE ON/OFF – Thanks to the integration with BMS system by means of potential-free signals, it is possible to remotely turn the unit on/off and signal alarms.



WIFI – The possibility to control via WiFi communication module for all Type of units.



ALARM CONTACT – The unit is equipped with potential-free alarm output contact, indicating air-conditioner malfunction.





Midea HOME

UNIT CLASSES

Midea HOME

PREMIUM

SYSTEM DESIGNED FOR CUSTOMERS EXPECTING THE HIGHEST QUALITY.

The products feature latest technology, unique design and the highest parameters. Devices from this class of solutions have the highest energy efficiency coefficients, both for cooling and heating, what allows to lower the operating costs to a minimum.

MORE INFO ON PAGES 26 – 47

CLASSIC

DEVICES THAT FULLY MEETS CUSTOMERS' EXPECTATIONS.

This class devices ensure rich functionality, innovative solutions and low operating costs. They feature low operation noise level and low electric energy consumption.

MORE INFO ON PAGES 48 – 61

ECONOMY

DEVICES FOR EVERYONE AT REASONABLE PRICE.

This products provide rich functionality and guarantee maintenance of optimal conditions in a room. They state a combination of comfort, attractive appearance and affordable price.

MORE INFO ON PAGES 62 – 67

AVAILABLE INDOOR UNIT MODELS

PREMIUM



BREEZELESS+ SERIES

REFRIGERANT	SEER	SCOP
R32	A+++	A++

NEW



XTREME SAVE WARMER SERIES

REFRIGERANT	SEER	SCOP
R32	A+++	A+



MISSION Xtreme SERIES

REFRIGERANT	SEER	SCOP
R32	A++	A++

CLASSIC

NEW



XTREME SAVE SERIES

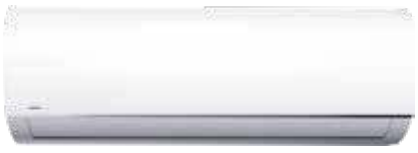
REFRIGERANT	SEER	SCOP
R32	A+++	A+



MISSION Smart SERIES

REFRIGERANT	SEER	SCOP
R32	A++	A++

ECONOMY



BLANC SERIES

REFRIGERANT	SEER	SCOP
R32	A++	A+





SERIES

BreezeleSS+

PREMIUM

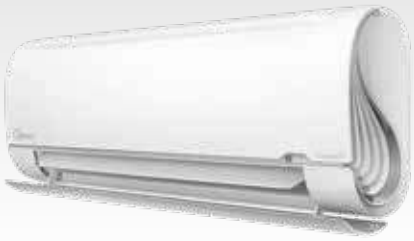
Breezeless+ is definitely one of the major innovations on the HVAC market, both in terms of technology and aesthetics. Dedicated to all those who appreciate the real comfort. Enjoy the evenly spread air over 360° degrees, the highest energy efficiency A+++ and original style.

REFRIGERANT
R32

SEER
A+++

SCOP
A++

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com



INDOOR UNIT



OUTDOOR UNIT



CONTROLLER

UNIQUE FEATURES:

1 TWIN FLAP™ PATENTED COOLING TECHNOLOGY

A 70 mm high louver, covered with 7928 holes ensures wide, even and most of all gentle distribution of the cooled air in the whole room.



2 360° AIR-FLOW

Thanks to the innovative casing, air coming out from the unit can be distributed forward and sideways offering a sense of 3D air-flow.



3 INVERTER QUATTRO

Units use the green R32 refrigerant. Moreover, they are equipped with the newest technology Midea Inverter Quattro, which thanks to innovative solutions, ensures the lowest energy consumption, the highest efficiency and economy operation. It is a combination of 4 functions: Gear and iECO, Flash Cooling/Heating, operation in extreme conditions and stepless control.



ECO-FRIENDLY REFRIGERANT **R32**

The R32 refrigerant has almost three time lower impact on global warming in comparison to the conventional R410A gas and provides up to 10% higher unit's energy efficiency!



GENTLE BREEZE

Adjust the air-flow strength to your needs. Now you can choose the flow mode, that ensures the most gentle way of cooling the space. Minimum breeze – maximum comfort.



MODERN DESIGN

A snow-white casing of the unit with original S-shaped sides, present modern and dynamic character of these products. In combination with the innovative appearance of the louver, the whole makes up a unique design of walls in any room.



COANDA EFFECT

With Coanda effect, the cold air is directed upwards and then it evenly falls downwards. Now you may provide yourself with pleasant and gentle coolness, without the risk of feeling "cold neck".



ENERGY EFFICIENCY

Thanks to the modern inverter technology, the outdoor units obtain the highest classes of energy efficiency A+++.



GEAR MODE

Due to the possibility of adjusting the compressor operation and supplied air temperature, the energy consumption can be controlled and user decides about maximum intensity of unit operation.



QUIETEST **ON THE MARKET**

Very quiet operation of the Breezeless+ units provides conditions for uninterrupted work and relax.



OPERATION IN **EXTREME CONDITIONS**

Outdoor temperature range for outdoor units it -25 ~ +50˚C. This ensures continuous operation all year round.



iECO

A single press of a button is all it takes to switch the air-conditioning system into the energy saving mode. Application of the smart iECO technology results in reduction of power consumption to a minimum, without decreasing a feel of comfort coolness in a room.



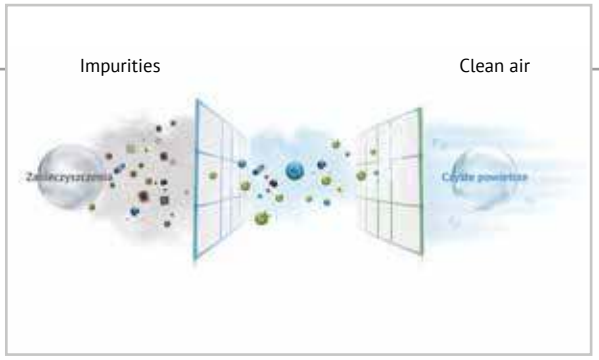
COOLING **IN 40 SECONDS**

The supply air temperature of 23°C can be obtained in just 40 second in cooling mode and only 1 minute is enough to achieve 35°C in the heating mode.



HEALTHY AIR

Functionality of the high density filters is over twice as effective as the common dust filters. Midea filters allows to purify the air of dust, so you can enjoy healthy and fresh air in a room.



SELF-CLEANING

This feature includes cleaning of the indoor unit heat exchanger by drying it after operation in cooling mode and also cleaning of the outdoor unit heat exchanger. Cleaning of the outdoor exchanger is realized by switching the fan on in the opposite direction to the standard operation.



FOLLOW ME FUNCTION

The temperature sensor is built in the wireless remote controller. Therefore, the temperature measurement may be taken closer to the user and the air-conditioner operation shall be more precisely adapted to real conditions in a room.



SLEEP MODE

This function allows the air-conditioner to increase or decrease the set temperature at night. Owing to this, electric energy consumption shall be significantly limited.



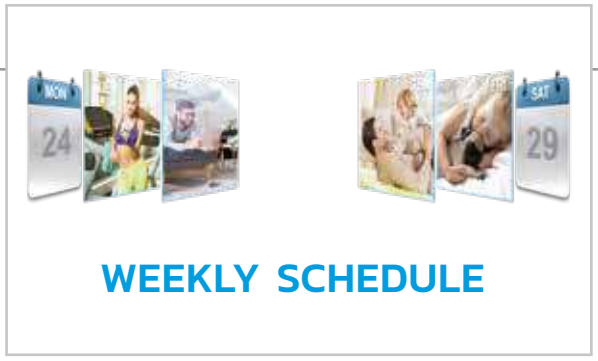
WIFI CONTROL

A small interface (USB size) makes it possible to add the WIFI control function at any time. This enables you to control the air-conditioner operation with the use of, for instance, a tablet or smartphone. From now on, you can control your air-conditioner from anywhere in the world.



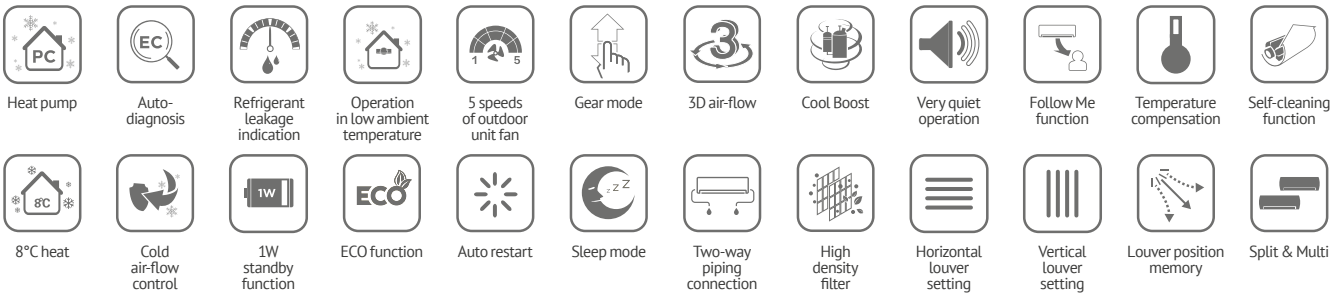
WEEKLY TIMER

A timer available for the WiFi control function, enables setting of the air-conditioner operation schedule for the whole week.



STANDARD FUNCTIONS

With wireless remote controller: RG58F2.



OPTIONAL FUNCTIONS



TECHNICAL SPECIFICATIONS

Set				KFA-09N8-A1	KFA-12N8-A1
Indoor unit				MSFAAU-09HRFN8-QRD6GW	MSFAAU-12HRFN8-QRD6GW
Outdoor unit				MOB01-09HFN8-QRD6GW(A)	MOB01-12HFN8-QRD6GW(A)
Power supply (V/phase/Hz)				220-240/1/50	
Version				Reversible heat pump	
Cooling	Capacity	Rated	kW	2.6	3.5
		Min-Max	kW	0.8~3.3	1.3~4.4
	Rated input power		kW	0.64	0.86
	EER		kW/kW	4.04	4.08
	Annual power consumption		kWh/year	115	170
	SEER			8.5	8.5
	Energy efficiency class			A+++	A+++
Heating	Capacity	Rated	kW	2.9	3.8
		Min-Max	kW	0.8~3.4	0.9~4.5
	Rated input power		kW	0.64	0.95
	COP		kW/kW	4.55	3.99
	Annual power consumption		kWh/year	691	704
	SCOP			4.6	4.6
	Energy efficiency class			A++	A++
Maximum input current			A	10.5	10.5
Indoor unit	Dimensions (width x depth x height)		mm	940x193x325	940x193x325
	Weight		kg	10.7	10.7
	Air-flow (low/medium/high)		m^3/h	380/500/610	400/520/640
	Sound pressure level (quiet/low/medium/high mode)		dB(A)	19/20/35/38	20/21/35/38
	Sound power level		dB(A)	55	57
Outdoor unit	Dimensions (width x depth x height)		mm	800x333x554	800x333x554
	Weight		kg	29.3	29.3
	Air-flow		m^3/h	2000	2000
	Sound pressure level		dB(A)	55	55
	Sound power level		dB(A)	59	63
Refrigerant	Type			R32	R32
	Factory charged		kg	0.69	0.69
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52
	Max. length / Max. height difference		m	25 / 10	25 / 10
Ambient temp. range		Cooling	°C	-25 ~ 50	
		Heating	°C	-25 ~ 30	

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





SERIES

PREMIUM

NEW

Xtreme Save Warmer

The newest solution of Midea for extreme outdoor conditions. The Xtreme Save Warmer series ensures thermal comfort throughout the year. Unit operating as the heat pumps provides space heating, even when the outside temperature falls below -30°C.

REFRIGERANT R32

SEER A+++

SCOP A+



EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

NEW



INDOOR UNIT



OUTDOOR UNIT

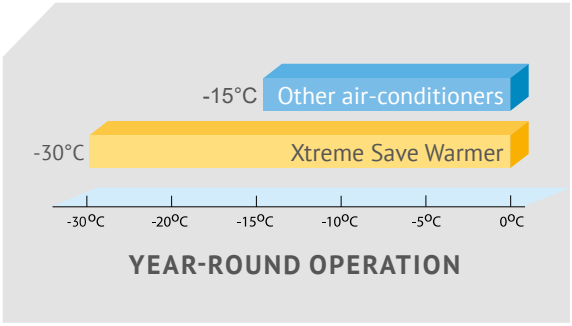


CONTROLLER

UNIQUE FEATURES:

1 OPERATION UP TO –30°C

Operating capacity range at outdoor temperature below -30 °C means comfort in a room in the coldest days during a year. Outdoor units are equipped with a drain pan heater, a compressor crankcase heater and the smart defrost function, increase the operating capacity at extremely low outdoor air temperatures.



2 ADDITIONAL HEATERS

Outdoor unit is equipped with a compressor crankcase heater, which heats up the inverter during the start-up, in order to get rid of outside cold and prepare the compressor for the fast heating-up and also a drain pan heater. Enlarged heat exchange surface of the pipes improves efficiency and provides faster heating.



3 CONSTANT TEMPERATURE

Unit provides thermal comfort at the constant temperature within ±0,5 °C, thanks to the accurate inverter microprocessor control. The air-conditioner can easily maintain the requested temperature, by changing the compressor speed without multiple switching on and off.



INVERTER **QUATTRO**

Units are equipped with the world's best DC compressor. Midea Inverter Quattro ensures the lowest energy consumption, the highest efficiency and economy operation. It is a combination of 4 functions: cooling in high temperatures and heating in low temperatures, ultra energy-saving, fast, powerful cooling/heating and comfort provided by the constant temperature.



GEAR MODE

Midea air-conditioner offers three operating power options: 50%, 75% and 100%. If you feel too much cold, you can choose a lower power mode by enabling the GEAR mode on your remote. This shall also reduce the electric energy consumption.



FOLLOW ME FUNCTION

The temperature sensor is built in the wireless remote controller. Therefore, the temperature measurement may be taken closer to the user and the air-conditioner operation shall be more precisely adapted to real conditions in a room.



3D **AIR-FLOW**

Directional air outlet moves automatically, both horizontally and vertically, filling every corner of the room with pleasant and cool air.



EXTREMELY ENERGY-SAVING

After choosing the iECO mode, the air-conditioner consumes the minimum amount of electric energy, while still ensuring a cool comfort for the whole night. During 8 hours of operation in cooling mode, you can save up to 60% of electric energy.



RAPID COOLING

Application of the High Frequency Race Tech Inverter Quattro, the air-conditioner can lower the room temperature in just 30 seconds.



ACTIVE CLEAN
CLEANING TECHNOLOGY

Active Clean technology removes dust, mold and grease that adhere to the heat exchanger and which can cause the unpleasant odours. The air-conditioner freezes water, and then rapidly defrosts it. The indoor fan blows the evaporator, keeping the unit's interior clean.



VERY QUIET OPERATION

Quiet operation lets you rest without disturbance. Xtreme Save Warmer air-conditioner is one of the quietest appliances on the market.



LIGHT SENSITIVE **DISPLAY**

Clear and large display on the front panel, shows the current temperature settings and other functions of the unit. The unit has a built-in light sensor – when it is off, the display gradually dims, saving energy and providing comfortable sleep.



OPERATION IN A **WIDE RANGE OF VOLTAGES**

The PCB board has been improved in order to boost its ability to withstand the voltage fluctuations (overloads), thus providing stable operation of the air-conditioner, within a wide range of voltages, without the need of a separate voltage regulator.



NEW CASING OF THE **OUTDOOR UNIT**

The diamond-shaped construction, air outlet in the shape of Archimedean screw and the T-shaped cover, protect the product from rain and sand, ensuring stable operation of the unit. Moreover, all internal components like PCB board are protected with a shield with a triple protective layer CorrodeFREE. Midea outdoor units are resistant to moisture, fungi, salt, corrosion, acids and bases, providing years of great performance.



OPERATION IN **EXTREME CONDITIONS**

Outdoor temperature range for outdoor units it -30 ~ +50°C. This ensures continuous operation all year round.



PRIMEGUARD COATING

The heat exchanger's fins are coated with PrimeGuard layer which is highly resistant to oxidation and corrosion, providing stable and long-standing operation conditions. This coating effectively prevents the growth and spread of bacteria and protects components exposed to the risk of corrosion.



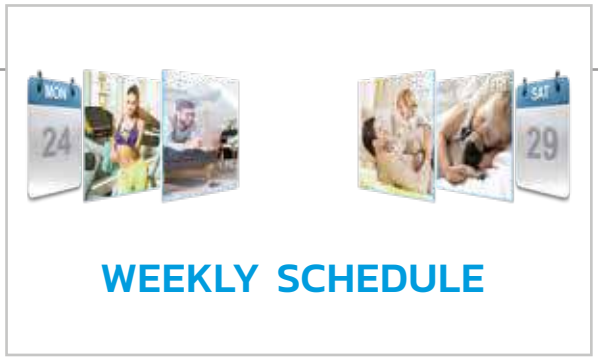
SMART CONTROL

MideaAir application, based on the cloud access under the M-Smart Security Protocol, makes the use of air-conditioning at home much easier, smarter and more comfortable, thanks to the comprehensive functions available at hand.



WEEKLY TIMER

A timer available for the WiFi control function, enables setting of the air-conditioner operation schedule for the whole week.



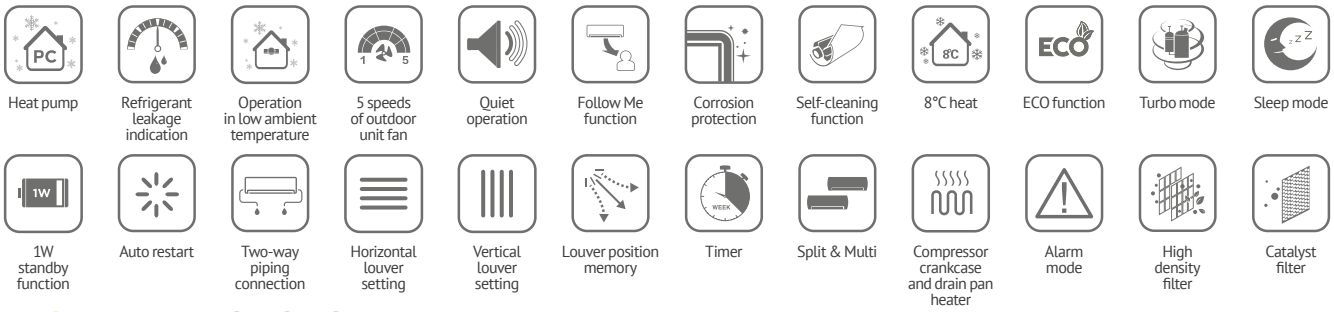
SLEEP MODE

This function allows the air-conditioner to increase or decrease the set temperature at night. Owing to this, electric energy consumption shall be significantly limited.



STANDARD FUNCTIONS

With wireless remote controller: RG10A.



OPTIONAL FUNCTIONS



TECHNICAL SPECIFICATIONS

Set				**KAG-W09NXD1-B1**	**KAG-W12NXD1-B1**	**KAG-W18NXD0-B1**	**KAG-W24NXD0-B1**
Indoor unit				AG-09NXD1-IH	AG-12NXD1-IH	AG-18NXD0-IH	AG-24NXD0-IH
Outdoor unit				X2-09N8D1-OH	X2-12N8D1-OH	X3-18N8D0-OH	X4-24N8D0-OH
Power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Capacity	Rated	kW	2.6	3.5	5.3	7.0
		Min-Max	kW	1.02-3.22	1.38-4.31	3.39-5.9	2.11-8.21
	Rated input power		kW	0.66	1.00	1.55	2.4
	EER		kW/kW	3.94	3.5	3.42	2.92
	SEER			8.5	8.5	7.0	6.4
	Energy efficiency class			A+++	A+++	A++	A++
Heating	Capacity	Rated	kW	2.9	3.8	5.6	7.3
		Min-Max	kW	0.82-3.37	1.07-4.38	3.08-5.85	1.55-8.21
	Rated input power		kW	0.67	0.97	1.75	2.13
	COP		kW/kW	4.37	3.92	3.20	3.43
	SCOP			4.2	4.3	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+
Maximum input current			A	10	10	13	19
Indoor unit	Dimensions (width x depth x height)		mm	835x208x295	835x208x295	969x241x320	1083x244x336
	Weight		kg	8.7	8.7	11.2	13.6
	Air-flow (low/medium/high)		m^3/h	300/360/510	310/370/520	500/600/800	610/770/1090
	Sound pressure level (quiet/low/medium/high mode)		dB(A)	19/22/30/37	19/22/33/38	25/31/37/41	27/34,5/37/46
	Sound power level		dB(A)	56	60	56	62
Outdoor unit	Dimensions (width x depth x height)		mm	765x303x555	765x303x555	874x330x554	955x342x673
	Weight		kg	26.2	26.4	33.5	43.9
	Air-flow		m^3/h	2150	2200	2100	3500
	Sound pressure level		dB(A)	56	55	57	60
	Sound power level		dB(A)	60	64	65	67
Refrigerant	Type			R32	R32	R32	R32
	Factory charged		kg	0.62	0.62	1.1	1.45
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	25 / 10	25 / 10	30 / 20	50 / 25
Ambient temp. range		Cooling	°C	-25 ~ 50	-25 ~ 50	-25 ~ 50	-25 ~ 50
		Heating	°C	-30 ~ 30	-30 ~ 30	-30 ~ 30	-30 ~ 30

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





SERIES

PREMIUM

MISSION
Xtreme

Excellent efficiency even in extreme outdoor conditions. Mission Xtreme is a guarantee of the highest comfort in a room, both in summer and winter.

REFRIGERANT
R32

SEER
A++

SCOP
A++

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

*Availability until existing stocks are exhausted.



INDOOR UNIT



OUTDOOR UNIT

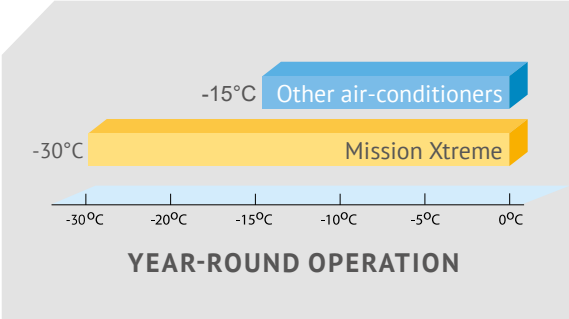


CONTROLLER

UNIQUE FEATURES:

1 OPERATION UP TO –30°C

Operating capacity range at outdoor temperature below -30 °C means comfort in a room in the coldest days during a year. Outdoor units are equipped with drain pan heater, smart defrost function and the heat exchanger is covered with hydrophilic coating in order to increase the operating capacity at extremely low outdoor air temperatures.



2 8°C HEAT FUNCTION

In the heating mode, the unit maintains minimum temperature hold of 8°C. This protects the room from considerable cooling down during longer periods of user absence in winter.



3 SELF-CLEANING

This feature includes cleaning of the indoor unit heat exchanger by drying it after operation in cooling mode and also cleaning of the outdoor unit heat exchanger. Cleaning of the outdoor exchanger is realized by switching the fan on in the opposite direction to the standard operation.



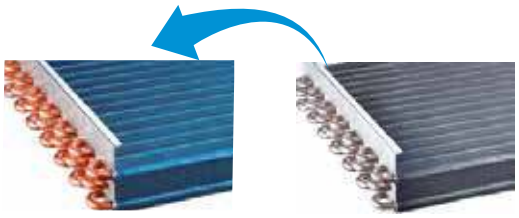
ECO-FRIENDLY REFRIGERANT **R32**

R32 refrigerant have nearly three time lower impact on global warming than the traditional R410A and 10% higher unit's energy efficiency!



HYDROPHILIC COATING

New design of exchangers, as well as the fins with hydrophilic coating, provide highly efficient heat exchange in any operation mode and prevent water drops from settling on the coil. As a consequence, water is drained faster and the effect of exchanger freezing is minimized.



Hydrophilic fins
+ female threaded pipes

FOLLOW ME FUNCTION

The temperature sensor is built in the wireless remote controller. Therefore, the temperature measurement may be taken closer to the user and the air-conditioner operation shall be more precisely adapted to real conditions in a room.



ECO MODE

ECO function automatically adjusts the indoor unit air-flow speed and the set temperature in order to obtain the maximal energy efficient operation. Electric energy consumption is significantly reduced, resulting in more than 60% savings in comparison with standard operation of the unit.



GEAR MODE

Due to the possibility of adjusting the compressor operation and supplied air temperature, the energy consumption can be controlled and user decides about maximum intensity of unit operation.



LONG RANGE

Specially designed air-flow ducts, together with ultrafast fan, are able to supply cool and pleasant air in every corner of a room.



TURBO

Feel comfortable within 30 sec. Now, you can achieve the desired cooling effect in half the standard time. Super strong air-flow quickly cools down your room.



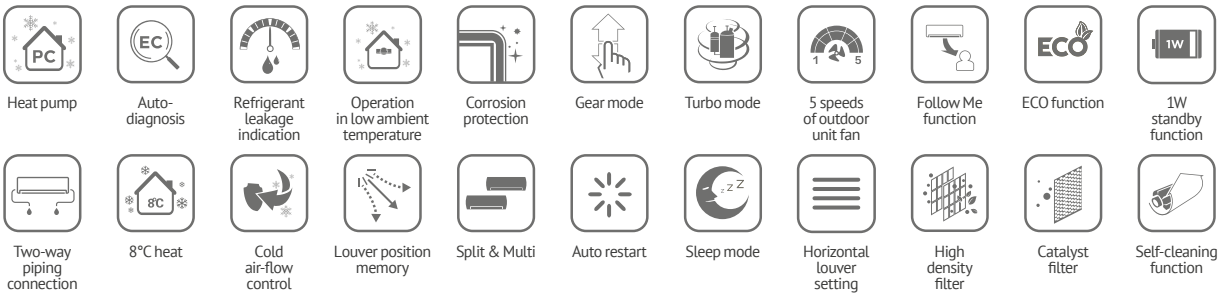
WIFI CONTROL

A small interface (USB size) makes it possible to add the WIFI control function at any time. This enables you to control the air-conditioner operation with the use of, for instance, a tablet or smartphone. From now on, you can control your air-conditioner from anywhere in the world.



STANDARD FUNCTIONS

With wireless remote controller: RG58F1.



Heat pump | Auto-diagnosis | Refrigerant leakage indication | Operation in low ambient temperature | Corrosion protection | Gear mode | Turbo mode | 5 speeds of outdoor unit fan | Follow Me function | ECO function | 1W standby function

Two-way piping connection | 8°C heat | Cold air-flow control | Louver position memory | Split & Multi | Auto restart | Sleep mode | Horizontal louver setting | High density filter | Catalyst filter | Self-cleaning function

OPTIONAL FUNCTIONS



WiFi | Wired remote controller | Drain pump | BioHEPA filter

TECHNICAL SPECIFICATIONS

Set				KMB-E09N8-A1	KMB-E12N8-A1	KMB-E18N8-A1	KMB-E24N8-A1
Indoor unit				MB-09N8D6-I	MB-12N8D6-I	MB-18N8D0-I	MB-24N8D0-I
Outdoor unit				MBT-09N8D6-OH	MBT-12N8D6-OH	MB-18N8D0-OH	MB-24N8D0-OH
Power supply (V/phase/Hz)				220-240/1/50			
Version				Reversible heat pump			
Cooling	Capacity	Rated	kW	2.5	3.4	5.4	7.0
		Min-Max	kW	1.0~3.2	1.4~4.3	2.0~6.2	2.1~8.4
	Rated input power		kW	0.67	0.92	1.50	2.21
	EER		kW/kW	3.72	3.71	3.60	3.17
	Annual power consumption		kWh/year	106	162	251	374
	SEER			8.2	7.4	7.3	6.8
	Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated	kW	2.9	3.8	5.4	7.7
		Min-Max	kW	0.8~3.4	1.1~4.4	1.4~7.0	1.6~9.4
	Rated input power		kW	0.65	0.95	1.42	2.03
	COP		kW/kW	4.46	3.99	3.80	3.79
	Annual power consumption		kWh/year	704	694	1590	2358
	SCOP			4.6	4.6	4.0	4.0
	Energy efficiency class			A++	A++	A+	A+
Maximum input current			A	9.0	10.0	15.0	16.0
Indoor unit	Dimensions (width x depth x height)		mm	795x185x305	795x185x305	955x208x323	1065x225x340
	Weight		kg	8.3	8.3	10.7	13.0
	Air-flow (low/medium/high)		m^3/h	240/370/440	270/440/500	500/590/750	550/700/1050
	Sound pressure level (quiet/low/medium/high mode)		dB(A)	20/24/31/39	21/24/32/40	22/24/33/42	21/26/36/47
	Sound power level		dB(A)	55	56	58	62
Outdoor unit	Dimensions (width x depth x height)		mm	800x333x554	800x333x554	800x333x554	845x363x702
	Weight		kg	28.5	28.5	36.9	49.7
	Air-flow		m^3/h	1980	1980	2100	3300
	Sound pressure level		dB(A)	55	60	59	61
	Sound power level		dB(A)	59	62	64	67
Refrigerant	Type			R32	R32	R32	R32
	Factory charged		kg	0.65	0.65	1.25	1.60
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	25 / 10	25 / 10	30 / 20	50 / 25
Ambient temp. range		Cooling	°C	-25 ~ 50			
		Heating	°C	-30 ~ 30			

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





SERIES

CLASSIC

NEW

Xtreme Save

Modern, wall-mounted Xtreme Save series air-conditioner features simple design line, which thanks to the classics, perfectly matches with any room. High energy efficiency ensures minimal electric energy consumption and maximal savings.

REFRIGERANT R32

SEER A+++

SCOP A+

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

NEW



INDOOR UNIT



OUTDOOR UNIT

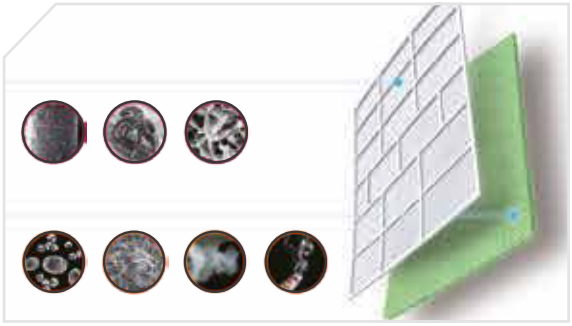


CONTROLLER

UNIQUE FEATURES:

1 DUAL **FILTRATION**

Dual filtration system thoroughly eliminates harmful substances in two stages: first through the high density pre-filter, then through the fine filter, which captures micro dust with particles of a size above 0,3 µm. Enjoy fresh and clean air in your room.



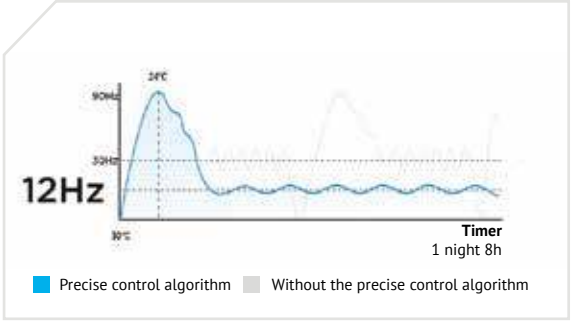
2 EXTREMELY **ENERGY-SAVING**

After choosing the iECO mode, the air-conditioner consumes the minimum amount of electric energy, while still ensuring a cool comfort for the whole night. During 8 hours of operation in cooling mode, you can save up to 60% of electric energy.



3 ENERGI **CHIP**

Midea Alpha Energi Chip means precise control - data processing is more accurate and the commands are transferred to the compressor much faster. Precise control algorithm enables the unit to operate at extremely low frequency of 12 Hz, with 16-times lower vibrations as compared to the traditional inverters.



INVERTER **QUATTRO**

Units are equipped with the world's best DC compressor. Midea Inverter Quattro ensures the lowest energy consumption, the highest efficiency and economy operation. It is a combination of 4 functions: cooling in high temperatures and heating in low temperatures, ultra energy-saving, fast, powerful cooling/heating and comfort provided by the constant temperature.



GEAR MODE

Midea air-conditioner offers three operating power options: 50%, 75% and 100%. If you feel too much cold, you can choose a lower power mode by enabling the GEAR mode on your remote. This shall also reduce the electric energy consumption.



STEADY **TEMPERATURE**

Unit provides thermal comfort at the constant temperature within ±0,5°C, thanks to the accurate inverter microprocessor control. The air-conditioner can easily maintain the requested temperature, by changing the compressor speed without multiple switching on and off.



FOLLOW ME FUNCTION

The temperature sensor is built in the wireless remote controller. Therefore, the temperature measurement may be taken closer to the user and the air-conditioner operation shall be more precisely adapted to real conditions in a room.



3D AIR-FLOW

Directional air outlet moves automatically, both horizontally and vertically, filling every corner of the room with pleasant and cool air.



SUPER IONISER

The built-in ioniser provides your room with fresh and healthy air. By releasing the negative and positive ions, it eliminates unpleasant odours, dust, smoke and pollens from the environment.



FAST COOLING

Application of the High Frequency Race Tech Inverter Quattro, the air-conditioner can lower the room temperature in just 30 seconds.



ACTIVE CLEAN CLEANING TECHNOLOGY

Active Clean technology removes dust, mold and grease that adhere to the heat exchanger and which can cause the unpleasant odours. The air-conditioner freezes water, and then rapidly defrosts it. The indoor fan blows the evaporator, keeping the unit's interior clean.



VERY **QUIET OPERATION**

Quiet operation lets you rest without disturbance. Xtreme Save air-conditioner is one of the quietest appliances on the market.



LIGHT SENSITIVE **DISPLAY**

Clear and large display on the front panel, shows the current temperature settings and other functions of the unit. The unit has a built-in light sensor – when it is off, the display gradually dims, saving energy and providing comfortable sleep.



OPERATION IN A **WIDE RANGE OF VOLTAGES**

The PCB board has been improved in order to boost its ability to withstand the voltage fluctuations (overloads), thus providing stable operation of the air-conditioner, within a wide range of voltages, without the need of a separate voltage regulator.



NEW CASING OF THE **OUTDOOR UNIT**

The diamond-shaped construction, air outlet in the shape of Archimedean screw and the T-shaped cover, protect the product from rain and sand, ensuring stable operation of the unit. Moreover, all internal components like PCB board are protected with a shield with a triple protective layer CorrodeFREE. Midea outdoor units are resistant to moisture, fungi, salt, corrosion, acids and bases, providing years of great performance.



OPERATION IN **EXTREME CONDITIONS**

Outdoor temperature range for outdoor units it -15 ~ +50˚C. This ensures continuous operation all year round.



PRIMEGUARD COATING

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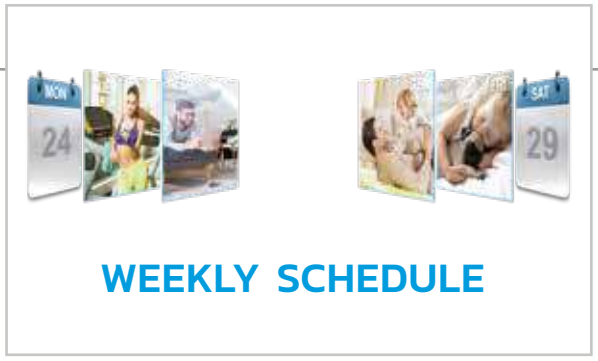
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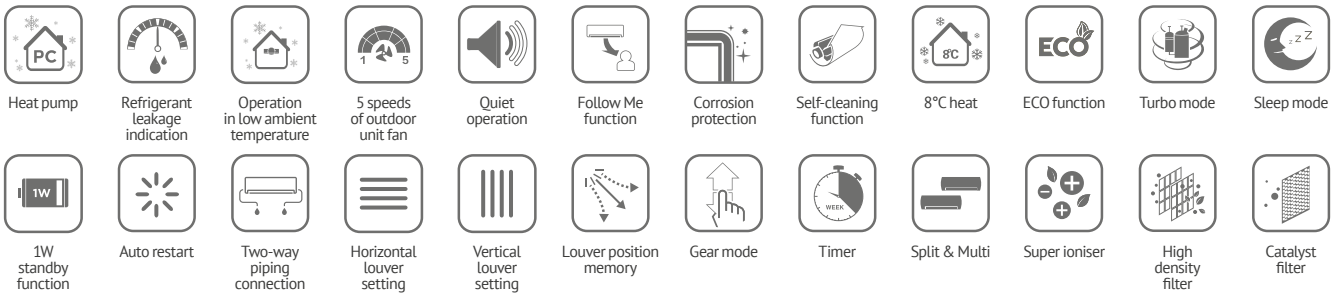
WEEKLY TIMER

A timer available for the WiFi control function, enables setting of the air-conditioner operation schedule for the whole week.

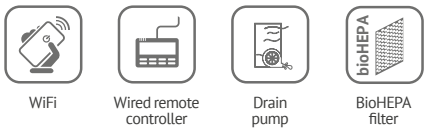


STANDARD FUNCTIONS

With wireless remote controller: RG10A.



OPTIONAL FUNCTIONS



TECHNICAL SPECIFICATIONS

Set				**KAG-09NXD1-B1**	**KAG-12NXD1-B1**	**KAG-18NXD0-B1**	**KAG-24NXD0-B1**
Indoor unit				AG-09NXD1-I	AG-12NXD1-I	AG-18NXD0-I	AG-24NXD0-I
Outdoor unit				X2-09N8D1-O	X2-12N8D1-O	X3-18N8D0-O	X4-24N8D0-O
Power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Capacity	Rated	kW	2.6	3.5	5.3	7.0
		Min-Max	kW	1.02-3.22	1.38-4.31	3.39-5.9	2.11-8.21
	Rated input power		kW	0.66	1.00	1.55	2.40
	EER		kW/kW	3.94	3.50	3.42	2.92
	SEER			8.5	8.5	7.0	6.4
	Energy efficiency class			A+++	A+++	A++	A++
Heating	Capacity	Rated	kW	2.9	3.8	5.6	7.3
		Min-Max	kW	0.82-3.37	1.07-4.38	3.08-5.85	1.55-8.21
	Rated input power		kW	0.67	0.97	1.75	2.13
	COP		kW/kW	4.37	3.92	3.20	3.43
	SCOP			4.2	4.3	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+
Maximum input current			A	10	10	13	19
Indoor unit	Dimensions (width x depth x height)		mm	835x208x295	835x208x295	969x241x320	1083x244x336
	Weight		kg	8.7	8.7	11.2	13.6
	Air-flow (low/medium/high)		m^3/h	300/360/510	310/370/520	500/600/800	610/770/1090
	Sound pressure level (quiet/low/medium/high mode)		dB(A)	19/22/30/37	19/22/33/38	25/31/37/41	27/34,5/37/46
	Sound power level		dB(A)	56	60	56	62
Outdoor unit	Dimensions (width x depth x height)		mm	765x303x555	765x303x555	874x330x554	955x342x673
	Weight		kg	26.2	26.4	33.5	43.9
	Air-flow		m^3/h	2150	2200	2100	3500
	Sound pressure level		dB(A)	56	55	57	60
	Sound power level		dB(A)	60	64	65	67
Refrigerant	Type			R32	R32	R32	R32
	Factory charged		kg	0.62	0.62	1.1	1.45
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	25 / 10	25 / 10	30 / 20	50 / 25
Ambient temp. range		Cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating	°C	-15 ~ 30	-15 ~ 30	-15 ~ 30	-15 ~ 30

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





SERIES

CLASSIC

MISSION
Smart

A world leader in terms of high energy efficiency and outstanding operating parameters. It works with green R32 refrigerant. The device is enclosed in a modern, snow-white casing.

REFRIGERANT
R32

SEER
A++

SCOP
A++

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

*Availability until existing stocks are exhausted



INDOOR UNIT



OUTDOOR UNIT



CONTROLLER

UNIQUE FEATURES:

1 WIFI CONTROL

A small interface (USB size) makes it possible to add the WiFi control function at any time. This enables you to control the air-conditioner operation with the use of, for instance, a tablet or smartphone. From now on, you can control your air-conditioner from anywhere in the world.



2 GEAR MODE

Due to the possibility of adjusting the compressor operation and supplied air temperature, the energy consumption can be controlled and user decides about maximum intensity of unit operation.



3 FOLLOW ME FUNCTION

The temperature sensor is built in the wireless remote controller. Therefore, the temperature measurement may be taken closer to the user and the air-conditioner operation shall be more precisely adapted to real conditions in a room.



iECO

A single press of a button is all it takes to switch the air-conditioning system into the energy saving mode. Application of the smart iECO technology results in reduction of power consumption to a minimum, without decreasing a feel of comfort coolness in a room.



TURBO

Feel comfortable within 30 sec. Now, you can achieve the desired cooling effect in half the standard time. Super strong air-flow quickly cools down your room.



LONG RANGE

Specially designed air-flow ducts, together with ultrafast fan, are able to supply cool and pleasant air in every corner of a room.



OPERATION IN EXTREME CONDITIONS

Outdoor temperature range for outdoor units it -25 ~ +50°C. This ensures continuous operation all year round.



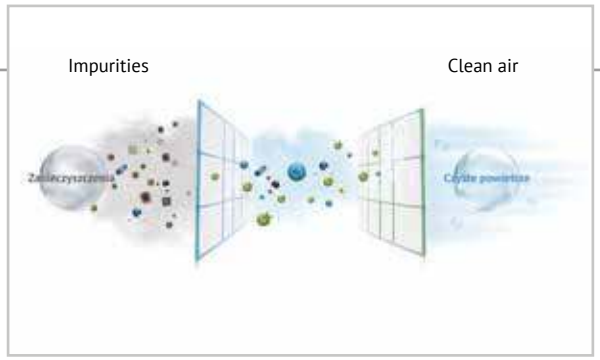
STEPLESS **CONTROL**

With the stepless operation control, unit capacity may be adjusted to a cooling or heating load more rapidly. This allows to maintain constant room temperature and reduce energy consumption.



HEALTHY AIR

Functionality of the high density filters is over twice as effective as the common dust filters. Midea filters allows to purify the air of dust, so you can enjoy healthy and fresh air in a room.



SELF-CLEANING

This feature includes cleaning of the indoor unit heat exchanger by drying it after operation in cooling mode and also cleaning of the outdoor unit heat exchanger. Cleaning of the outdoor exchanger is realized by switching the fan on in the opposite direction to the standard operation.



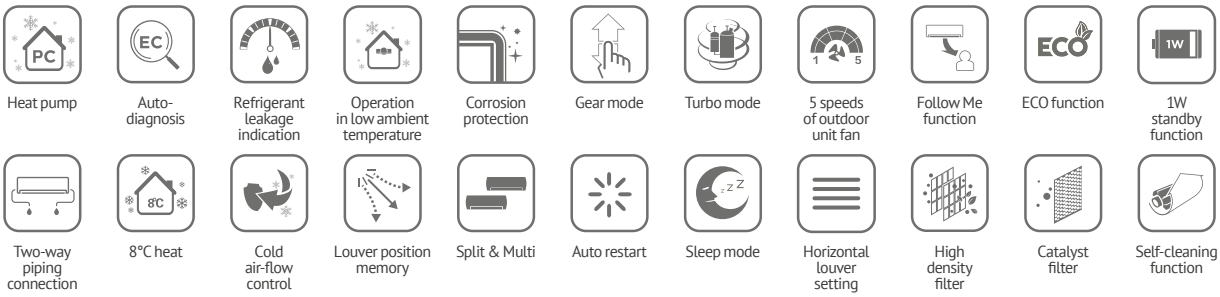
SLEEP MODE

This function allows the air-conditioner to increase or decrease the set temperature at night. Owing to this, electric energy consumption shall be significantly limited.



STANDARD FUNCTIONS

With wireless remote controller: RG58F1.



Heat pump | Auto-diagnosis | Refrigerant leakage indication | Operation in low ambient temperature | Corrosion protection | Gear mode | Turbo mode | 5 speeds of outdoor unit fan | Follow Me function | ECO function | 1W standby function

Two-way piping connection | 8°C heat | Cold air-flow control | Louver position memory | Split & Multi | Auto restart | Sleep mode | Horizontal louver setting | High density filter | Catalyst filter | Self-cleaning function

OPTIONAL FUNCTIONS



WiFi | Wired remote controller | Drain pump | BioHEPA filter

TECHNICAL SPECIFICATIONS

Set				KMB-S09N8-A1	KMB-S12N8-A1	KMB-S18N8-A1	KMB-S24N8-A1
Indoor unit				MB-09N8D6-I	MB-12N8D6-I	MB-18N8D0-I	MB-24N8D0-I
Outdoor unit				MBT-09N8D6-O	MBT-12N8D6-O	MB-18N8D0-O	MB-24N8D0-O
Power supply (V/phase/Hz)				220-240/1/50			
Version				Reversible heat pump			
Cooling	Capacity	Rated	kW	2.5	3.4	5.4	7.0
		Min-Max	kW	1.0~3.2	1.4~4.3	2.0~6.2	2.1~8.4
	Rated input power		kW	0.67	0.92	1.50	2.21
	EER		kW/kW	3.72	3.71	3.60	3.17
	Annual power consumption		kWh/year	106	162	251	374
	SEER			8.2	7.4	7.3	6.8
	Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated	kW	2.9	3.8	5.4	7.7
		Min-Max	kW	0.8~3.4	1.1~4.4	1.4~7.0	1.6~9.4
	Rated input power		kW	0.65	0.95	1.42	2.03
	COP		kW/kW	4.46	3.99	3.80	3.79
	Annual power consumption		kWh/year	704	694	1590	2358
	SCOP			4.6	4.6	4.0	4.0
	Energy efficiency class			A++	A++	A+	A+
Maximum input current			A	9.0	10.0	15.0	16.0
Indoor unit	Dimensions (width x depth x height)		mm	795x185x305	795x185x305	955x208x323	1065x225x340
	Weight		kg	8.3	8.3	10.7	13.0
	Air-flow (low/medium/high)		m^3/h	240/370/440	270/440/500	500/590/750	550/700/1050
	Sound pressure level (quiet/low/medium/high mode)		dB(A)	20/24/31/39	21/24/32/40	22/24/33/42	21/26/36/47
	Sound power level		dB(A)	55	56	58	62
Outdoor unit	Dimensions (width x depth x height)		mm	800x333x554	800x333x554	800x333x554	845x363x702
	Weight		kg	28.5	28.5	36.9	49.7
	Air-flow		m^3/h	1980	1980	2100	3300
	Sound pressure level		dB(A)	55	60	59	61
	Sound power level		dB(A)	59	62	64	67
Refrigerant	Type			R32	R32	R32	R32
	Factory charged		kg	0.65	0.65	1.25	1.60
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	25 / 10	25 / 10	30 / 20	50 / 25
Ambient temp. range		Cooling	°C	-25 ~ 50			
		Heating	°C	-25 ~ 30			

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





SERIES

BLANC

ECONOMY

Elegant and compact air-conditioners, equipped with several economy operation modes, to ensure energy save operation and optimum conditions in a room.

REFRIGERANT
R32

SEER
A++

SCOP
A+

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com



INDOOR UNIT



OUTDOOR UNIT



CONTROLLER

UNIQUE FEATURES:

1 SUPER COOL

Feel comfortable within 30 sec. Now, you can achieve the desired cooling effect in half the standard time. Super strong air-flow quickly cools down your room, even up to 17 °C.



2 SUPER IONISER

The built-in ioniser provides your room with fresh and healthy air. By releasing the negative and positive ions, it eliminates unpleasant odours, dust, smoke and pollens from the environment.



3 ECO MODE

ECO function automatically adjusts the indoor unit air-flow speed and the set temperature in order to obtain the maximal energy efficient operation. Electric energy consumption is significantly reduced, resulting in more than 60% savings in comparison with standard operation of the unit.



ECO-FRIENDLY REFRIGERANT **R32**

The R32 refrigerant has almost three time lower impact on global warming in comparison to the conventional R410A gas and provides up to 10% higher unit's energy efficiency!



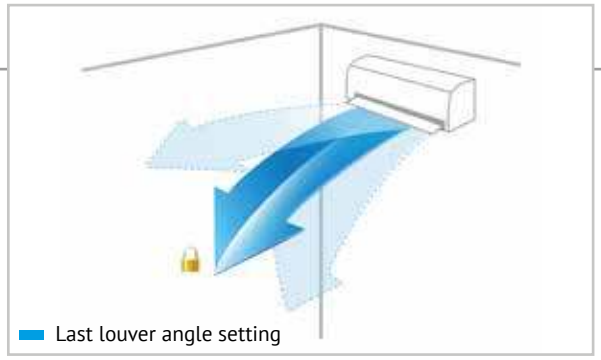
GEAR MODE

Due to the possibility of adjusting the compressor operation and air supply temperature, the energy consumption can be controlled and user decides about maximum intensity of unit operation.



LOUVRE SETTING MEMORY

After the unit is restarted, the vertical air-flow louvers will automatically return to the most recent position.



FOLLOW ME FUNCTION

The temperature sensor is built in the wireless remote controller. Therefore, the temperature measurement may be taken closer to the user and the air-conditioner operation shall be more precisely adapted to real conditions in a room.



HEALTHY AIR

A wide variety of air filters ensures thoroughly cleaned room air. bioHEPA filter as a standard – it stops up to 99% of dust particles of a size above 0,3 μm (including bacteria and viruses).



STANDBY 1W

Electric energy consumption in the Midea air-conditioner standby mode is just 1W.



SELF-CLEANING

This feature includes cleaning of the indoor unit heat exchanger by drying it after operation in cooling mode and also cleaning of the outdoor unit heat exchanger. Cleaning of the outdoor exchanger is realized by switching the fan on in the opposite direction to the standard operation.



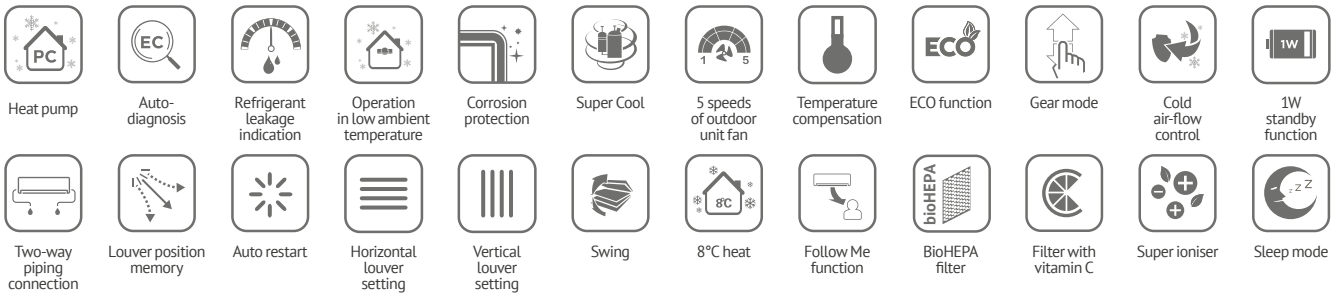
SMART CONTROL

MideaAir application, based on the cloud access under the M-Smart Security Protocol, makes the use of air-conditioning at home much easier, smarter and more comfortable, thanks to the comprehensive functions available at hand.



STANDARD FUNCTIONS

With wireless remote controller: RG70E3.



OPTIONAL FUNCTIONS



TECHNICAL SPECIFICATIONS

				NEW			
Set				**KMA-B09N8-B1**	**KMA-B12N8-B1**	**KMA-B18N8-A1**	**KMA-B24N8-A1**
Indoor unit				MA-09NXD0-XI	MA-12NXD0-XI	MA-18NXD0-I	MA-24NXD0-I
Outdoor unit				MA-09N8D0-XO	MA-12N8D0-XO	MA-18N8D0-O	MA-24N8D0-O
Power supply (V/phase/Hz)				220-240/1/50			
Version				Reversible heat pump			
Cooling	Capacity	Rated	kW	2.6	3.5	5.2	7.0
		Min-Max	kW	0.9~3.4	1.1~4.2	1.9~6.1	2.6~8.3
	Rated input power		kW	0.73	1.21	1.63	2.43
	EER		kW/kW	3,56	2.89	3.19	2.88
	SEER			6.2	6.1	6.6	6.1
	Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated	kW	2.9	3.8	5.6	7.3
		Min-Max	kW	0.8~3.4	1.1~4.2	1.0~6.9	2.9~8.5
	Rated input power		kW	0.73	1.10	1.54	2.43
	COP		kW/kW	3.97	3.45	3.64	3.01
	SCOP			4.0	4.0	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+
Maximum input current			A	10.0	10.0	13.5	17.5
Indoor unit	Dimensions (width x depth x height)		mm	805x205x285	805x205x285	958x223x302	1038x235x325
	Weight		kg	7.9	7.8	10.3	12.8
	Air-flow (low/medium/high)		m^3/h	340/460/520	314/430/540	560/690/860	700/860/1050
	Sound pressure level (quiet/low/medium/high mode)		dB(A)	21/24/31/38	21.5/27/34/40.5	22/30/36/43	22/33/40/47
	Sound power level		dB(A)	54	55	58	61
Outdoor unit	Dimensions (width x depth x height)		mm	720x270x495	720x270x495	800x333x554	845x363x702
	Weight		kg	23.2	23,2	34.0	51.5
	Air-flow		m^3/h	1750	1800	2000	3000
	Sound pressure level		dB(A)	55	56	56	60
	Sound power level		dB(A)	62	63	65	69
Refrigerant	Type			R32	R32	R32	R32
	Factory charged		kg	0.55	0.55	1.00	1.60
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	25 / 10	25 / 10	30 / 20	50 / 25
Ambient temp. range		Cooling	°C	-15 ~ 50			
		Heating	°C	-15 ~ 24*			

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
BLANC series units provide correct operation at outdoor temperatures up to -25° C in the heating mode.





Midea MULTI







SERIES

MULTI
Comfort

NEW

Systems providing a possibility to install from 2 to 5 indoor units with guarantee of air-conditioning comfort on the whole space of the object.

REFRIGERANT
R32

SEER
A++

SCOP
A+

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

* only M2OD-18HFN8-Q model

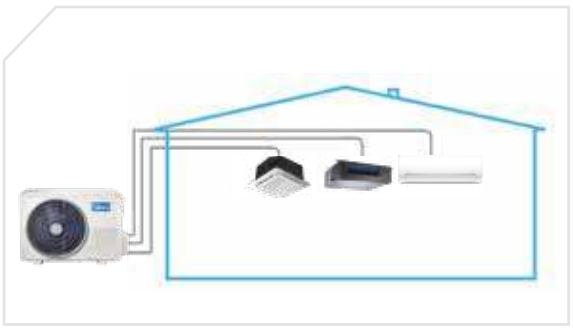


OUTDOOR UNIT

UNIQUE FEATURES:

1 FLEXIBILITY

Compact outdoor unit and possibility to connect a wide range of indoor units. User can choose from: wall-mounted, duct, cassette and ceiling-floor models.



2 MULTI SYSTEM

Midea Multi Comfort system provides a possibility to install 5 indoor units with guarantee of air-conditioning comfort on the whole space of the object. Units can be controlled individually, ensuring comfort conditions in every room.



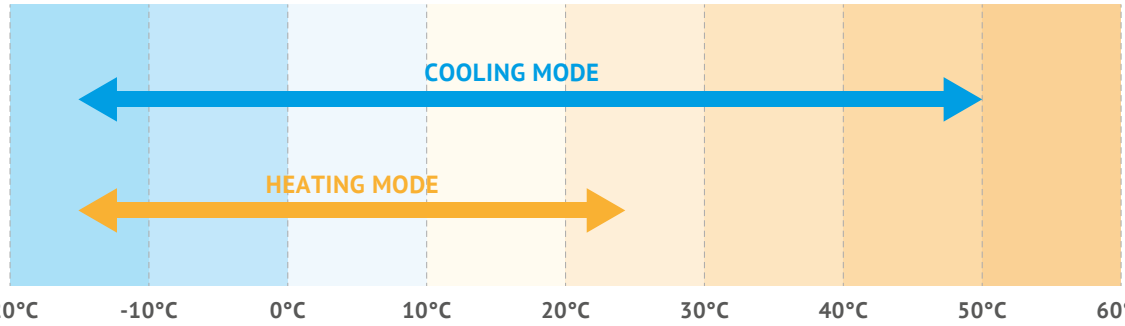
3 ENERGY EFFICIENCY

Thanks to the modern inverter technology, the outdoor units obtain the highest classes of energy efficiency.



RECOMMENDED RANGE OF OPERATING TEMPERATURES

Midea Multi Comfort provides stable operation in extreme temperatures from -15˚C to +50˚C



DEDICATED INDOOR UNITS

Model / index		9	12	18	24
Rated cooling/heating capacity [kW]		2.6 / 2.9	3.5 / 3.8	5.3 / 5.6	7.0 / 8.0
Wall-mounted	 BREEZELESS+ SERIES	•	•		
	NEW  XTREME SAVE SERIES	•	•	•	•
	 MISSION SERIES	•	•	•	•
Hydrobox	NEW 				•
Cassette			•	•	
Duct			•	•	
Ceiling-floor				•	

FLEXIBLE INSTALLATION

Midea Multi Comfort provides maximum piping length up to 80 m. Comprehensive installation amenities allows high degree of flexibility in system design.

No. of connectable indoor units	2	3	4	5
Max. piping length (m)	40	60	80	80
Max. length to indoor unit (m)	25	30	35	35
Max. height difference between outdoor and indoor unit (m)	15	15	15	15
Max. height between indoor units	10	10	10	10

TECHNICAL SPECIFICATIONS

Outdoor unit				M2OD-18HFN8-Q	M3OF-27HFN8-Q	M4OE-28HFN8-Q	M4O-36FN8-Q	M5O-42FN8-Q
Power supply (V/phase/Hz)				220-240/1/50				
Version				Reversible heat pump				
Cooling	Rated capacity		kW	5.3	7.9	8.2	10.6	12.3
	Rated input power		kW	1.63	2.45	2.25	3.52	3.80
	EER		kW/kW	3.25	3.22	3.64	2.91	3.22
	SEER			6.1	6.1	6.8	6.5	6.6
	Energy efficiency class			A++	A++	A++	A++	A++
Heating	Rated capacity		kW	5.6	7.9	8.8	11.1	12.3
	Rated input power		kW	1.50	2.12	2.37	3.17	3.32
	COP		kW/kW	3.73	3.73	3.71	3.51	3.71
	SCOP			4.0	4.0	4.0	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+	A+
Maximum number of connectable indoor units				2	3	4	4	5
Maximum input current			W	2850	3600	4150	4600	4700
Air-flow			m^3/h	2200	2700	3800	4000	3850
Sound pressure level			dB(A)	56	53	62	63	62
Sound power level			dB(A)	64	67	67	68	71
Outdoor unit	Dimensions (width x depth x height)		mm	800x333x554	845x363x702	946x410x810	946x410x810	946x410x810
	Weight		kg	35.5	51.1	62.1	68.8	73.3
Refrigerant	Type			R32	R32	R32	R32	R32
	Factory charged		kg	1.25	1.72	2.10	2.10	2.40
Refrigerant piping	Liquid/gas		mm	2x Ø6.35 / Ø9.52	3x Ø6.35 / Ø9.52	4 x Ø6.35 / 3x Ø9.52+1x Ø12.7	4 x Ø6.35 / 3x Ø9.52+1x Ø12.7	5 x Ø6.35 / 4x Ø9.52+1x Ø12.7
	Maximum total length		m	40	60	80	80	80
	Maximum length between each unit		m	25	30	35	35	35
	Max. height difference between outdoor and indoor unit		m	15	15	15	15	15
	Max. height difference between indoor units		m	10	10	10	10	10
Ambient temp. range		Cooling	°C	-15 ~ 50				
		Heating	°C	-15 ~ 24				

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

INDOOR UNITS CONFIGURATION TABLES

Model	1 Indoor unit	2 indoor units
M2OD-18FN8-Q with cooling capacity 5.3 kW	9	9+9
	12	9+12
	18	9+18
		12+12

Model	1 Indoor unit	2 indoor units		3 indoor units	
M3OF-27FN8-Q with cooling capacity 7.9 kW	9	9+9	12+12	9+9+9	9+12+12
	12	9+12	12+18	9+9+12	9+12+18
	18	9+18	18+18	9+9+18	12+12+12

Model	1 Indoor unit	2 indoor units		3 indoor units	
M4OE-28HFN8-Q with cooling capacity 8.2 kW	9	9+9	12+12	9+9+9	9+12+12
	12	9+12	12+18	9+9+12	12+12+12
	18	9+18	18+18	9+9+18	

4 indoor units
9+9+9+9
9+9+9+12

Model	1 Indoor unit	2 indoor units		3 indoor units	
M4O-36FN8-Q with cooling capacity 10.6 kW	9	9+9	12+12	9+9+9	9+12+24
	12	9+12	12+18	9+9+12	9+18+18
	18	9+18	12+24	9+9+18	12+12+12
	24	9+24	18+18	9+9+24	12+12+18
				9+12+12	12+12+24
				9+12+18	12+18+18

4 indoor units	
9+9+9+9	9+12+12+12
9+9+9+12	9+12+12+18
9+9+9+18	12+12+12+12
9+9+12+12	12+12+12+18
9+9+12+18	

Model	1 Indoor unit	2 indoor units		3 indoor units	
M5O-42FN8-Q with cooling capacity 12.3 kW	9	9+9	12+12	9+9+9	9+12+24
	12	9+12	12+18	9+9+12	9+18+18
	18	9+18	12+24	9+9+18	12+12+12
	24	9+24	18+18	9+9+24	12+12+18
				9+12+12	12+12+24
				9+12+18	12+18+18

4 indoor units		5 indoor units	
9+9+9+9	9+12+12+12	9+9+9+9+9	9+9+12+12+12
9+9+9+12	9+12+12+18	9+9+9+9+12	9+12+12+12+12
9+9+9+18	12+12+12+12	9+9+9+9+18	9+12+12+12+18
9+9+12+12	12+12+12+18	9+9+9+12+12	12+12+12+12+12
9+9+12+18		9+9+9+12+18	

NEW



INDOOR UNITS



CONTROLLER

TECHNICAL SPECIFICATIONS

Indoor unit				MSFAAU-09HRFN8-QRD6GW	MSFAAU-12HRFN8-QRD6GW
Series				Breezeless +	Breezeless +
Power supply (V/phase/Hz)				220-240/1/50	
Cooling	Capacity	Rated	kW	2.6	3.5
	Rated input power		kW	0.050	0.050
Heating	Capacity	Rated	kW	2.9	3.8
	Rated input power		kW	0.050	0.050
Air-flow (low/medium/high)			m^3/h	380/500/610	400/520/640
Sound pressure level (quiet/low/medium/high mode)			dB(A)	19/20/35/38	20/21/35/38
Sound power level			dB(A)	55	57
Dimensions (width x depth x height)			mm	940x193x325	940x193x325
Weight			kg	10.7	10.7
Refrigerant piping	Liquid / Gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52

Indoor unit				AG-09NXD1-I	AG-12NXD1-I	AG-18NXD0-I	AG-24NXD0-I
Series				Xtreme Save	Xtreme Save	Xtreme Save	Xtreme Save
Power supply (V/phase/Hz)				220-240/1/50			
Cooling	Capacity	Rated	kW	2.6	3.5	5.3	7.0
	Rated input power		kW	0.030	0.030	0.036	0.058
Heating	Capacity	Rated	kW	2.9	3.8	5.6	7.3
	Rated input power		kW	0.030	0.030	0.036	0.058
Air-flow (low/medium/high)			m^3/h	300/360/510	310/370/520	500/600/800	610/770/1090
Sound pressure level (quiet/low/medium/high mode)			dB(A)	19/22/30/37	19/22/33/38	25/31/37/41	27/34,5/37/46
Sound power level			dB(A)	56	60	56	62
Dimensions (width x depth x height)			mm	835x208x295	835x208x295	969x241x320	1083x244x336
Weight			kg	8.7	8.7	11.2	13.6
Refrigerant piping	Liquid / Gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9

Indoor unit				MB-09N8D6-I	MB-12N8D6-I	MB-18N8D0-I	MB-24N8D0-I
Series*				Mission	Mission	Mission	Mission
Power supply (V/phase/Hz)				220-240/1/50			
Cooling	Capacity	Rated	kW	2.5	3.4	5.4	7.0
	Rated input power		kW	0.050	0.050	0.036	0.058
Heating	Capacity	Rated	kW	2.9	3.8	5.4	7.7
	Rated input power		kW	0.050	0.050	0.036	0.058
Air-flow (low/medium/high)			m^3/h	240/370/440	270/440/500	500/590/750	550/700/1050
Sound pressure level (quiet/low/medium/high mode)			dB(A)	20/24/31/39	21/24/32/40	22/24/33/42	21/26/36/47
Sound power level			dB(A)	55	56	58	62
Dimensions (width x depth x height)			mm	795x185x305	795x185x305	955x208x323	1065x225x340
Weight			kg	8.3	8.3	10.7	13.0
Refrigerant piping	Liquid / Gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R32 GWP=675)
*Series available until existing stocks are exhausted.





4-WAY UNITS

CONTROLLER

TECHNICAL SPECIFICATIONS

White set				KMCA-12N8-B1M	KMCA-18N8-B1M
Black set				KMCA-12N8-B1MB	KMCA-18N8-B1MB
Indoor unit				MCA3U-12FNXD0	MCA3U-18FNXD0
Panel: white / black				T-MBQ-03C3 / T-MBQ-03C3B	
Power supply (V/phase/Hz)				220-240/1/50	220-240/1/50
Cooling	Capacity	Rated	kW	3.5	5.3
	Rated input power		kW	0.045	0.045
Heating	Capacity	Rated	kW	4.4	5.4
	Rated input power		kW	0.045	0.045
Air-flow (low/medium/high)			m^3/h	416/504/617	540/625/720
Sound pressure level (low/medium/high)			dB(A)	33/36/41	35/39/42
Sound power level			dB(A)	51	56
Indoor unit	Dimensions (width x depth x height)		mm	570x570x260	570x570x260
	Weight		kg	16.2	16.5
Panel	Dimensions (width x depth x height)		mm	647x647x50	647x647x50
	Weight		kg	2.5	2.5
Refrigerant piping	Liquid		mm	Ø6.35	Ø6.35
	Gas		mm	Ø9.52	Ø12.7

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R32 GWP=675)



INDOOR UNITS



CONTROLLER

TECHNICAL SPECIFICATIONS

Indoor unit				MUEU-18FNXD0
Power supply (V/phase/Hz)				220-240/1/50
Cooling	Capacity	Rated	kW	5.3
	Rated input power		kW	0.096
Heating	Capacity	Rated	kW	5.6
	Rated input power		kW	0.096
Air-flow (low/medium/high)			m^3/h	650/760/880
Sound pressure level (low/medium/high)			dB(A)	34/38/41
Sound power level			dB(A)	58
Dimensions (width x depth x height)			mm	1068x675x235
Weight			kg	28.0
Refrigerant piping	Liquid		mm	Ø6.35
	Gas		mm	Ø12.7

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R32 GWP=675)



INDOOR UNITS



CONTROLLER

TECHNICAL SPECIFICATIONS

Indoor unit				MTIU-12FNXD0	MTIU-18FNXD0
Power supply (V/phase/Hz)				220-240/1/50	220-240/1/50
Cooling	Capacity	Rated	kW	3.5	5.3
	Rated input power		kW	0.130	0.090
Heating	Capacity	Rated	kW	4.1	5.9
	Rated input power		kW	0.130	0.090
Air-flow (low/medium/high)			m^3/h	300/480/600	350/650/880
Sound pressure level (low/medium/high)			dB(A)	26/30/35	33/38/41
Sound power level			dB(A)	56	59
External static pressure			Pa	25 (0~60)	25 (0~100)
Dimensions (width x depth x height)			mm	700x450x200	880x674x210
Weight			kg	18.0	24.3
Refrigerant piping	Liquid		mm	Ø6.35	Ø6.35
	Gas		mm	Ø9.52	Ø12.7

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R32 GWP=675)

NEW



FLEXFIT – HYDROBOX

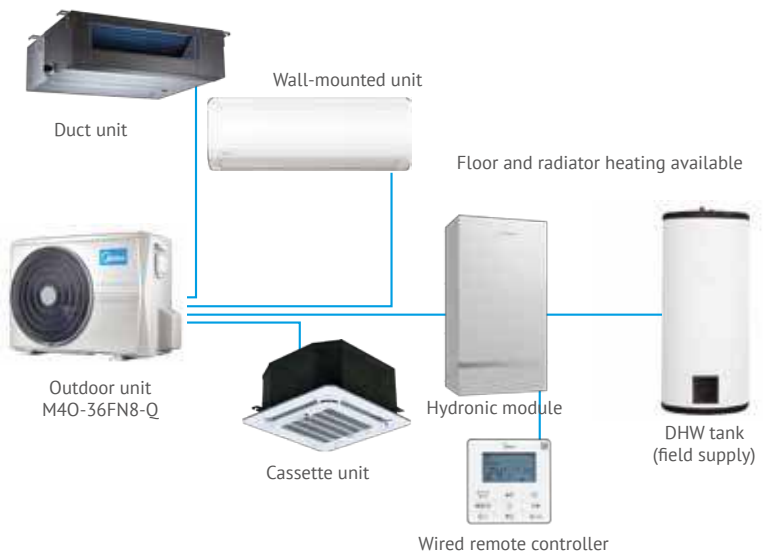
COMFORT AND SAFETY

FlexFit system is a comprehensive solution, that provides space heating and cooling as well as DHW production, ensuring the highest comfort for the residents.



COMPREHENSIVE SOLUTION

FlexFit system complies with the requirements referring to different surfaces and architecture, regardless of whether it is a bedroom, children's room or living room. It is possible to connect 4 indoor units to this system, including 3 units for the air/air system and air/water hydronic module, which provides space heating and production of the domestic hot water. Note: FlexFit system does not provide simultaneous operation in cooling and heating mode.



DHW production
Use of Multi outdoor unit to create a complete system for the single-family house



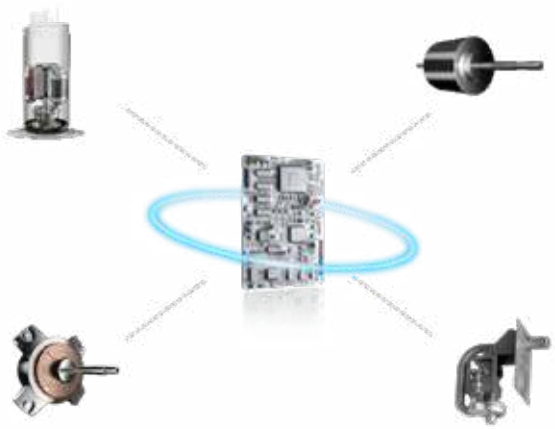
IDEAL SOLUTION FOR LOW TEMPERATURES

FlexFit system provides high capacity in -20°C temperature, both for air/air and air/water heating. It operates in extremely cold environment, ensuring thermal comfort. (Note: FlexFit system does not provide simultaneous operation in cooling and heating mode.)

Air/air (11kW)		Air/water (8kW)	
Outdoor temp.	Capacity	Outdoor temp.	Capacity
-10°C	100%	2°C	100%
-15°C	93%	-7°C	98%
-20°C	75%	-15°C	90%
-	-	-20°C	85%

INVERTER QUATTRO PLUS

Superior Midea Inverter Quattro Plus technology features an innovative algorithm for smart analysis of data collected by 21 temperature sensors, which subsequently forwards the signal to the compressor, fan motor and water pump in order to equalize each, even the lowest temperature deviation in time, for air and water. Users always get the temperature they need, and energy is transferred to the appropriate place, thus energy efficiency is high.



CONVENIENT INSTALLATION

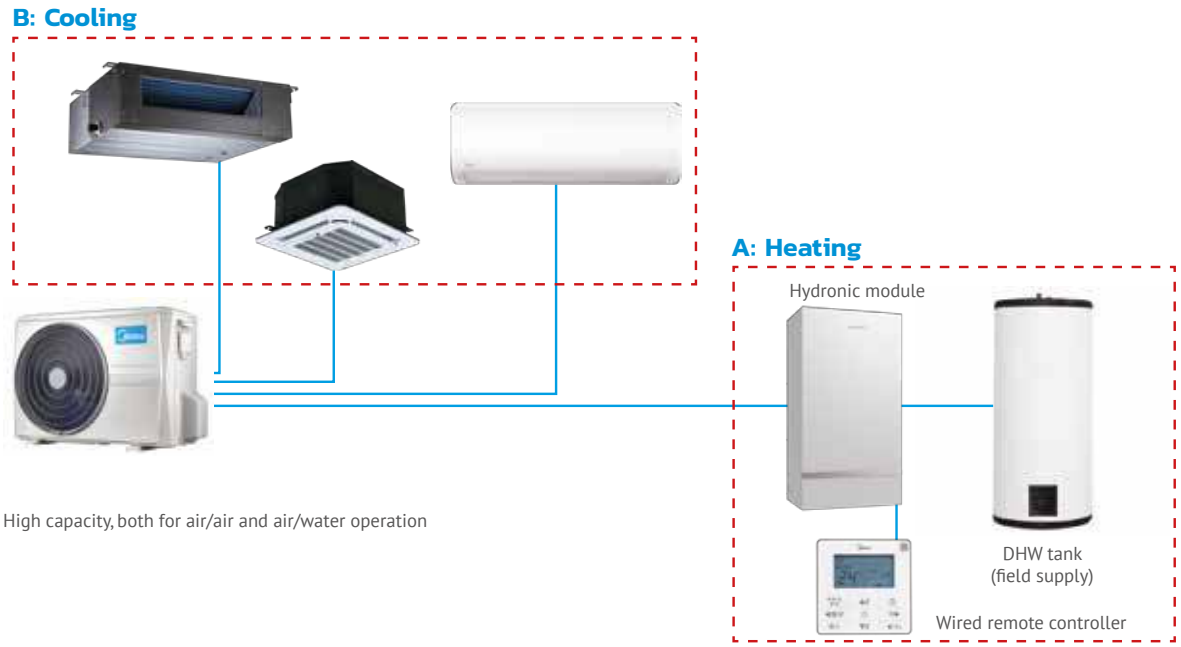
Hydrobox module does not require large installation space. It can be fixed on a wall. The maximum refrigerant piping length of 35 m and the 15 m height difference between indoor and outdoor unit, enable module installation in convenient place of the house.

ADDITIONAL FUNCTIONS

- **Wi-Fi** – system can be controlled with use of application.
- **Wired remote controller** - provides weekly timer programming and other system settings.
- **High energy efficiency** – energy efficiency class: air/air (A++/A) and air/water: (for A +7°C, LW+35°C it is A++; for A +7°C, LW+55°C it is A+), where A is the outdoor ambient temperature, LW - outlet water temperature.
- **High heating capacity** – up to 8kW of heating power for CH/DHW at outdoor temperature -7°C.
- **Effective heating** – production of water up to 55°C temperature.
- **Comfort and safety** – operation in heating mode up to -20°C.
- **Accurate temperature control** – ±0,5°C for the air/air system and ±1°C for the air/water system.
- **Disinfection function** – water in the DHW tank reaches 75°C for the time of 60 min. in order to kill the Legionella bacteria.

FLEXFIT **TIMER**

1. Operation in cooling mode and production of DHW in the summer season – timer:
   A. Possible to set the operating time „Heat" or „DHW" according to function and weekly timer.
      Example: "DHW" mode is set on the wired remote controller from 2 p.m. to 5 p.m.
   B. Setting the "Cool" mode for air-conditioners operation with use of controller's timer from 10 a.m. to 2 p.m.
2. Operation in cooling mode and production of DHW in the summer season – automatic:
   A. "Heat" or "DHW" and "Cool" modes for air-conditioners are active simultaneously.
   B. "DHW" mode has priority (default), "Cool" mode for air-conditioners start operation after reaching the set temperature for "DHW".
   C. Possible to choose the interval model. "DHW" mode operates for 90 min. + "Cool" or "Heat" mode operates alternately for 120 min.
      FlexFit system does not provide simultaneous operation in cooling and heating mode.



High capacity, both for air/air and air/water operation

TECHNICAL SPECIFICATIONS

Outdoor unit				M4O-36FN8-Q
Duct type indoor unit (example)				MTIU-12FNXD0
Hydronic module				SFENR-120/BP3DN8X-A
Power supply				220-240V~ 50Hz. 1Ph
Air - air	Cooling	Capacity	kW	10.6
		Input power	kW	3.5
		EER	W/W	3.0
		SEER / energy class		6.1 / A++
		Annual power consumption	kWh	613
	Heating	Capacity	kW	11.1
		Input power	kW	3.0
		COP	W/W	3.7
		SCOP / energy class		3.8 / A
		Annual power consumption	kWh	3246
Air - water	Heating (A*+7°C. LW*35°C)	Capacity	kW	8.0
		Input power	kW	1.8
		COP		4.4
	Heating (A*+7°C. LW*45°C)	Capacity	kW	8.0
		Input power	kW	2.5
		COP		3.2
	Heating (A*+7°C. LW*55°C)	Capacity	kW	8.0
		Input power	kW	3.3
		COP		2.4
	Heating (A*+2°C. LW*35°C)	Capacity	kW	8.0
		Input power	kW	2.6
		COP		3.1
	Heating (A*+2°C. LW*55°C)	Capacity	kW	8.0
		Input power	kW	3.8
		COP		2.1
	Heating (A*-7°C. LW*35°C)	Capacity	kW	7.9
		Input power	kW	3.2
		COP		2.5
	Heating (A*-7°C. LW*55°C)	Capacity	kW	7.0
		Input power	kW	4.4
		COP		1.6
	Heating (A*+7°C. LW*35°C)	SCOP / energy class		4.26 / A++
		ηs	%	167
	Heating (A*+7°C. LW*55°C)	SCOP / energy class		2.93 / A+
		ηs	%	114
Hydronic module	Dimensions	Width x depth x height	mm	490x325x918
	Weight		kg	56
	Electric heater	Power	W	3100
		Current	A	13.5
	Sound pressure level		dB(A)	32
	Sound power level		dB(A)	44
Indoor temperature	Heating	Room temperature	°C	0 ~ 43
		Supply temperature	°C	25 ~ 60
	Domestic hot water	Supply temperature	°C	35 ~ 55
Outdoor unit	Dimensions	Width x depth x height	mm	946x410x810
	Weight		kg	68.8
	Refrigerant	Type / charge		R32 / 2.1
	Sound pressure level		dB(A)	63
	Sound power level		dB(A)	67
Piping	Liquid/gas		mm	4 x Ø6.35/ 3 x Ø9.52+1xØ12.7
	Max. length for all rooms		m	80
	Max. length for a single unit		m	35
	Max. height difference between indoor and outdoor unit		m	15
	Max. height difference between indoor units		m	10
Operating temp. range	Air - air	Cooling / Heating	°C	-15 ~ 50 / -15 ~ 24
	Air - water	Heating / DHW	°C	-20 ~ 24 / -20 ~ 43

Notes:
A - outdoor ambient temperature
LW - outlet water temperature
ηs - seasonal energy efficiency class







SERIES

MULTI+
MULTI MAX

NEW

REFRIGERANT
R410A

MULTI+ system is the solution to ensure balanced comfort on the whole space of the site with use of up to 15 indoor units. It provides fast reaching of the thermal comfort, while keeping high energy efficiency.

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com



MULTI+ UNITS

NEW



MULTI MAX UNIT

UNIQUE FEATURES:

1 FLEXIBILITY

Compact outdoor units make it possible to connect up to 40 indoor units, providing comfort air-conditioning on the whole space of the site.



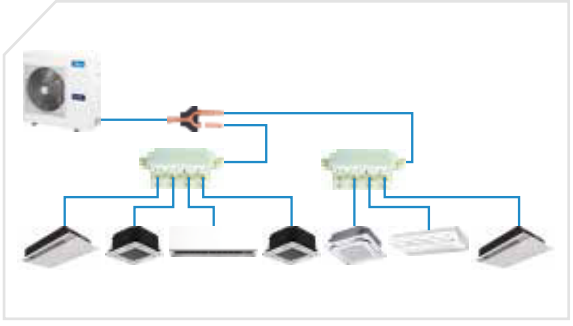
2 WIDE RANGE OF UNITS

System indoor units are freely configurable. A wide range of models is available: cassette, wall mounted, duct, ceiling-floor type. The air-conditioning system not only provides comfort conditions in a room but also matching any interior design.



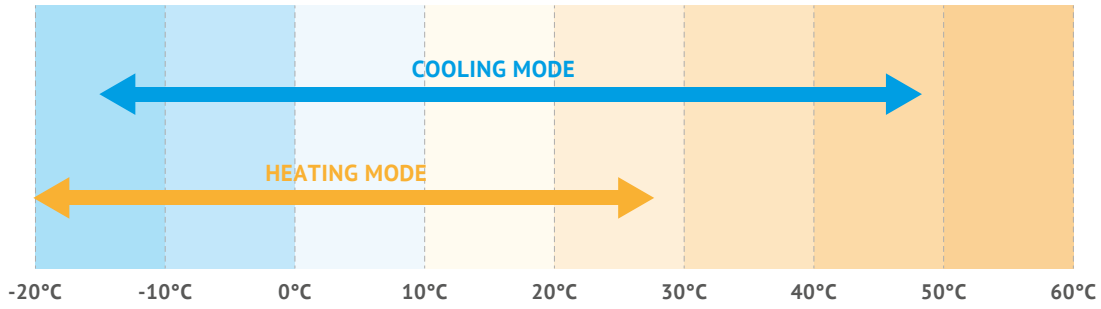
3 DESIGN AMENITIES

The air-conditioning system provides a possibility to install the refrigerant piping on the length up to 120 m. Installation is safely connected with use of branch pipes and guided to the 4-port branch box, which adjusts the refrigerant flow and simplifies pipes connection made with flares.

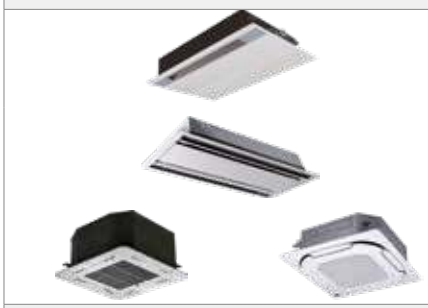


RECOMMENDED RANGE OF OPERATING TEMPERATURES

Multi+ system provides stable operation in extreme temperatures from -20˚C to +48˚C



DEDICATED INDOOR UNITS

Model / Index		17	18	22	28	36	45	52	56	71	80	90
Rated cooling/heating capacity [kW]		1.7 / 2.2	1.8 / 2.2	2.2 / 2.6	2.8 / 3.2	3.6 / 4.0	4.5 / 5.0	5.2 / 5.6	5.6 / 6.3	7.1 / 8.0	8.0 / 9.0	9.0 / 10.0
CASSETTE												
	1-way		•	•	•	•						
	2-way			•	•	•	•		•			
	4-way	•		•	•	•	•	•	•	•		
DUCT												
		•		•	•	•	•	•	•	•		
WALL-MOUNTED												
		•		•	•	•	•	•	•	•	•	•
CEILING-FLOOR												
						•	•	•	•	•		
CONSOLE												
				•	•	•	•					

FLEXIBLE INSTALLATION

The air-conditioning system provides long piping:

Capacity		7.2 - 9.0	12.3 - 17.5	20.0 - 26.0	28.0 - 50.4
Max. piping length (m)		100	100	120	120
Max. length to indoor unit (m)		50	70	70	70
Max. height difference between outdoor and indoor unit (m)	Outdoor unit above indoor unit	30	30	30	30
	Outdoor unit below indoor unit	20	20	20	20
Max. height between indoor units		8	8	8	8

MULTI+ TECHNICAL SPECIFICATIONS

Unit name			Multi+ P80 1F	Multi+ P105 1F	Multi+ 120 1F	Multi+ 120 3F
Unit model			MDV-V80W/DN1	MDV-V105W/DN1	MDV-V120W/DN1	MDV-V120W/DRN1
Power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50
Cooling capacity (rated)		kW	8.0	10.5	12.3	12.3
	Input power	kW	2.05	2.68	3.25	3.25
	EER	kW/kW	3.90	3.92	3.78	3.78
	SEER	kW/kW	6.50	6.25	5.60	5.60
Recommended cooling operation temperature range		°C	-15 ~ 48			
Heating capacity (rated)		kW	9.0	11.5	13.2	13.2
	Input power	kW	2.24	2.9	3.47	3.47
	COP	kW/kW	4.02	3.97	3.80	3.80
	SCOP	kW/kW	4.05	4.05	4.05	4.05
Recommended heating operation temperature range		°C	-15 ~ 27			
Max. no. of indoor units			4 (6*)	5 (8*)	6 (11*)	6 (11*)
Sound pressure level		dB(A)	56	57	57	57
Refrigerant piping	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9
External dimensions	W x H x D	mm	1075×966×396	1075×966×396	900x1327x400	900x1327x400
Net weight		kg	75.5	75.5	95	95
Fan	Air-flow rate	m^3/h	5500	5500	6000	6000
	Type x Amount		Propeller x 1	Propeller x 1	Propeller x 2	Propeller x 2
	Motor power	kW	0.195	0.195	0.1x2	0.1x2
Refrigerant	Type x factory charge		R410A x 2.95kg	R410A x 2.95kg	R410A x 3.3kg	R410A x 3.3kg

Unit name			Multi+ P140 1F	Multi+ P140 3F	Multi+ P160 1F	Multi+ P160 3F
Unit model			MDV-V140W/DN1	MDV-V140W/DRN1	MDV-V160W/DN1(B)	MDV-V160W/DRN1
Power supply (V/phase/Hz)			220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50
Cooling capacity (rated)		kW	14.0	14.0	15.5	15.5
	Input power	kW	3.95	3.95	4.52	4.52
	EER	kW/kW	3.54	3.54	3.43	3.43
	SEER	kW/kW	5.90	5.90	6.00	6.00
Recommended cooling operation temperature range		°C	-15 ~ 48			
Heating capacity (rated)		kW	15.4	15.4	17.0	17.0
	Input power	kW	4.16	4.16	4.77	4.77
	COP	kW/kW	3.70	3.70	3.56	3.56
	SCOP	kW/kW	4.00	4.00	3.80	3.80
Recommended heating operation temperature range		°C	-15 ~ 27			
Max. no. of indoor units			6 (12*)	6 (12*)	7 (15*)	7 (15*)
Sound pressure level		dB(A)	57	57	57	57
Refrigerant piping	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
External dimensions	W x H x D	mm	900x1327x400	900x1327x400	900x1327x400	900x1327x400
Net weight		kg	95	95	100	102
Fan	Air-flow rate	m^3/h	6000	6000	6000	6000
	Type x Amount		Propeller x 2	Propeller x 2	Propeller x 2	Propeller x 2
	Motor power	kW	0.1x2	0.1x2	0.1x2	0.1x2
Refrigerant	Type x factory charge		R410A x 3.9kg	R410A x 3.9kg	R410A x 3.9kg	R410A x 3.9kg

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*After consulting our Sales and Technical Adviser.

Unit name			Multi+ P180 3F	Multi+ P200 3F	Multi+ P224 3F	Multi+ P260 3F
Unit model			MDV-V180W/DRN1	MDV-V200W/DRN1	MDV-V224W/DRN1	MDV-V260W/DRN1
Power supply (V/phase/Hz)			380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling capacity (rated)		kW	17.5	20.0	22.4	26.0
	Input power	kW	5.3	6.35	6.8	8.13
	EER	kW/kW	3.30	3.15	3.29	3.20
Recommended cooling operation temperature range		°C	-15 ~ 48	-15 ~ 46	-15 ~ 46	-15 ~ 46
Heating capacity (rated)		kW	19.0	22.0	24.5	28.5
	Input power	kW	5.0	6.2	5.9	7.2
	COP	kW/kW	3.80	3.55	4.15	3.95
Recommended heating operation temperature range		°C	-15 ~ 27	-15 ~ 24	-15 ~ 24	-15 ~ 24
Max. no. of indoor units			9 (17*)	10 (19*)	11 (21*)	12 (23*)
Sound pressure level		dB(A)	59	59	59	60
Refrigerant piping	Liquid	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
	Gas	mm	Φ19.1	Φ19.1	Φ19.1	Φ22.2
External dimensions	W x H x D	mm	900×1327×400	1120×1558×528	1120×1558×528	1120×1558×528
Net weight		kg	107	137	146.5	147
Fan	Air-flow rate	m^3/h	6800	11000	10500	10500
	Type x Amount		Propeller x 2	Propeller x 2	Propeller x 2	Propeller x 2
	Motor power	kW	0.1x2	0.26/0.20	0.25/0.185	0.25/0.185
Refrigerant	Type x factory charge		R410A x 4.5 kg	R410A x 4.8 kg	R410A x 6.2 kg	R410A x 6.2 kg

MULTI MAX TECHNICAL SPECIFICATIONS

			NEW				
Unit name			Multi MAX P280 3F	Multi MAX P335 3F	Multi MAX P400 3F	Multi MAX P450 3F	Multi MAX P500 3F
Unit model			MDV-V280W/DGN1	MDV-V335W/DGN1	MDV-V400W/DRN1	MDV-V450W/DRN1	MDV-V500W/DRN1
Power supply (V/phase/Hz)			380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Cooling capacity (rated)		kW	28.0	33.5	40.0	45.0	50.4
	Input power	kW	12.07	15.09	15.09	13.55	15.3
	EER	kW/kW	2.32	2.22	2.65	3.32	3.29
Recommended cooling operation temperature range		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 48
Heating capacity (rated)		kW	28.0	33.5	40.0	45.0	55.0
	Input power	kW	6.68	7.94	10.0	11.1	14.1
	COP	kW/kW	4.19	4.22	4.00	4.05	3.90
Recommended heating operation temperature range		°C	-20 ~ 24	-20 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Max. no. of indoor units			16 (24*)	20 (28*)	14 (30*)	15 (35*)	15 (40*)
Sound pressure level		dB(A)	59	61	62	62	62
Refrigerant piping	Liquid	mm	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ12.7
	Gas	mm	Φ22.2	Φ25.4	Φ22.2	Φ25.4	Φ25.4
External dimensions	W x H x D	mm	1120×1558×528	1120×1558×528	1360x1650x540	1460x1650x540	1460x1650x540
Net weight		kg	157	157	250	280	280
Fan	Air-flow rate	m^3/h	11000	11300	16575	16575	16575
	Type x Amount		Propeller x 2	Propeller x 2	Propeller x 2	Propeller x 2	Propeller x 2
	Motor power	kW	0.17x2	0.17x2	0.58/0.42	0.58/0.42	0.58/0.42
Refrigerant	Type x factory charge		R410A x 8.0kg	R410A x 8.0kg	R410A x 9.0 kg	R410A x 12.0 kg	R410A x 12.0 kg

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*After consulting our Sales and Technical Adviser.



INDOOR UNITS

New design and elegant structure make these units fit perfectly into any interior design.

TECHNICAL SPECIFICATIONS

			NEW								NEW
Unit name			**MG-17M2**	**MG-22M2**	**MG-28M2**	**MG-36M2**	**MG-45M2**	**MQ4-56M2**	**MG-71M2**	**MG-80M2**	**MG-90GDN1**
Unit model			MI2-17GDN1	MI2-22GDN1	MI2-28GDN1	MI2-36GDN1	MI2-45GDN1	MI2-56GDN1	MI2-71GDN1	MI2-80GDN1	MI2-90GDN1
Power supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated capacity (*1)	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0
	Input power	kW	0.028	0.028	0.028	0.03	0.04	0.045	0.055	0.055	0.082
Heating	Rated capacity (*2)	kW	2.2	2.4	3.2	4.0	5.0	6.3	8.0	9.0	10.0
	Input power	kW	0.028	0.028	0.028	0.03	0.04	0.045	0.055	0.055	0.082
Corrosion protection			Hydrophilic coating								
Air-flow rate (speed 1/2/3/4/5/6/7)		m^3/h	356/368/378/385/393/402/411	356/368/380/393/402/411/422	316/338/353/370/386/402/417	488/515/544/573/591/628/656	424/450/478/507/535/563/594	547/578/613/648/685/713/747	809/875/940/1005/1065/1130/1195	809/875/940/1005/1065/1130/1195	867/934/1005/1067/1125/1300/1421
Sound pressure level (*3)		dB(A)	29/29/29/30/30/30/31	29/29/29/30/30/30/31	29/29/29/30/30/30/31	30/30/31/31/32/32/33	31/31/32/33/33/34/35	34/34/35/36/36/37/38	36/37/38/39/42/43/44	36/37/38/39/42/43/44	38/40/41/43/45/46/48
Sound power level		dB(A)	44/44/44/45/45/45/46	44/44/44/45/45/45/46	44/44/44/45/45/45/46	45/45/46/46/47/47/48	46/46/47/48/48/49/50	49/49/50/51/51/52/53	51/52/53/54/57/58/59	51/52/53/54/57/58/59	53/55/56/58/60/61/63
Dimensions	L x H x W (*4)	mm	835x280x203	835×280×203	835×280×203	990×315×223	990×315×223	990×315×223	1194×343×262	1194×343×262	1194x343x262
	Weight	kg	8.4	8.4	9.5	11.4	12.8	12.8	17	17	17
Refrigerant			R410A	R401A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Throttle		Type	Electronic expansion valve								
Piping	Gas / Liquid	mm	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ9.53 / Φ15.9	Φ9.53 / Φ15.9	Φ9.53 / Φ15.9	Φ9.53 / Φ15.9

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Sound pressure level measured in an semianechoic chamber
(*4) Unit dimensions include the outermost points of the casing together with fittings.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer



Compact size duct type units offering energy save operation, flexible installation and optimal performance.

INDOOR UNITS

TECHNICAL SPECIFICATIONS

NEW

Unit name			MT2-17M2	MT2-22M2	MT2-28M2	MT2-36M2	MT2-45M2	MT2-56M2	MT2-71M2
Unit model			MI2-17T2DN1	MI2-22T2DN1	MI2-28T2DN1	MI2-36T2DN1	MI2-45T2DN1	MI2-56T2DN1	MI2-71T2DN1
Power supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated capacity (*1)	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1
	Input power	kW	0.04	0.04	0.04	0.045	0.092	0.092	0.098
Heating	Rated capacity (*2)	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
	Input power	kW	0.04	0.04	0.04	0.045	0.092	0.092	0.098
Heat exchanger	Corrosion protection		Hydrophilic coating						
Air-flow rate (speed 1/2/3/4/5/6/7)		m^3/h	300/330/360/400/440/480/490	300/330/360/400/440/480/520	300/330/360/400/440/480/520	370/400/430/460/500/540/580	400/480/540/620/680/740/800	560/600/640/680/720/760/830	680/720/780/840/900/960/1000
Available static pressure		Pa	10 (0~50)	10 (0~50)	10 (0~50)	10 (0~50)	10 (0~50)	10 (0~50)	10 (0~50)
Sound pressure level (*3)		dB(A)	23/25/26/28/29/31/32	23/25/26/28/29/31/32		25/27/28/30/31/32/33	25/27/29/31/32/34/36	28/29/30/32/33/34/36	28/29/30/32/33/35/37
Sound power level		dB(A)	41/43/44/46/47/49/50	41/43/44/46/47/49/50		43/45/46/48/49/50/51	43/45/47/49/50/52/54	46/47/48/50/51/52/54	46/47/48/50/51/53/55
Dimensions	L x H x W(*4)	mm	780x210x500	780x210x500	780x210x500	780x210x500	1000x210x500	1000x210x500	1220x210x500
	Weight	kg	18	18	18	18	21.5	21.5	27.5
Refrigerant			R410A	R401A	R410A	R410A	R410A	R410A	R410A
Throttle		Type	Electronic expansion valve						
Piping	Gas / liquid	mm	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Sound pressure level measured in an semianechoic chamber at a distance of 1.4 m above the unit.
(*4) Unit dimensions include the outermost points of the casing together with fittings.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer



Compact cassette type, ideal for installation in the space of a standard ceiling tile.

4-WAY UNITS

TECHNICAL SPECIFICATIONS

			NEW			
Unit name			**MQ4-17M2**	**MQ4-22M2**	**MQ4-28M2**	**MQ4-36M2**
Unit model			MI2-17Q4CDN1	MI2-22Q4CDN1	MI2-28Q4CDN1	MI2-36Q4CDN1
Panel			CE-MBQ-03C4	CE-MBQ-03C4	CE-MBQ-03C4	CE-MBQ-03C4
Power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling capacity (rated) (*1)		kW	1.7	2.2	2.8	3.6
Input power for cooling		kW	0.035	0.035	0.035	0.04
Heating capacity (rated) (*2)		kW	2.2	2.4	3.2	4.0
Input power for heating		kW	0.035	0.035	0.035	0.04
Heat exchanger	Corrosion protection		Hydrophilic coating			
Air-flow rate (*3)		m^3/h	238/268/288/300/313/345/380	238/268/288/313/345/380/414		314/350/380/409/450/485/521
Sound pressure level (speed 1/2/3/4/5/6/7) (*4)		dbB(A)	22/23/26/29/33/34/35			28/29/30/32/35/38/41
Sound power level		dB(A)	38/39/42/45/49/50/51			43/44/45/47/50/53/56
Dimensions	L x H x W (*5)	mm	630x260x570	630x260x570	630x260x570	630x260x570
	Net weight	kg	18	18	18	19.2
Panel	L x H x W	mm	647x50x647	647x50x647	647x50x647	647x50x647
	Net weight	kg	2.5	2.5	2.5	2.5
Refrigerant			R410A	R401A	R410A	R410A
Throttle			Electronic expansion valve			
Piping	Gas / liquid	mm	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Air-flow given for 7 speeds.
(*4) Sound pressure level measured in an semianechoic chamber at a distance of 1.4 m in front of the unit.
(*5) Unit dimensions include the outermost points of the casing together with fittings.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer



Compact cassette type, ideal for installation in the space of a standard ceiling tile.

4-WAY UNITS

TECHNICAL SPECIFICATIONS

				NEW		
Unit name			**MQ4-45M2**	**MQ4-52M2**	**MQ4-56M2**	**MQ4-71M2**
Unit model			MI2-45Q4CDN1	MI2-52Q4CDN1	MI2-56Q4DN1	MI2-71Q4DN1
Panel			CE-MBQ-03C4	CE-MBQ-03C4	T-MBQ4-01E	T-MBQ4-01E
Power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling capacity (rated) (*1)		kW	4.5	5.2	5.6	7.1
Input power for cooling		kW	0.05	0.062	0.031	0.046
Heating capacity (rated) (*2)		kW	5.0	5.6	6.3	8.0
Input power for heating		kW	0.05	0.062	0.031	0.046
Heat exchanger	Corrosion protection		Hydrophilic coating			
Air-flow rate (*3)		m^3/h	314/350/380/409/ 450/485/521	350/380/410/446/ 481/580/635	704/756/801/857/ 899/957/1029	748/ 886/920/996/ 1065/1132/1200
Sound pressure level (speed 1/2/3/4/5/6/7) (*4)		dbB(A)	28/29/30/32/35/38/41	28/29/30/32/35/48/52	34/35/36/38/39/41/43	34/35/37/39/41/43/45
Sound power level		dB(A)	43/44/45/47/50/53/56	43/44/45/47/50/55/60	-	-
Dimensions	L x H x W (*5)	mm	630x260x570	630x260x570	904x230x840	904x230x840
	Net weight	kg	19.2	19.2	23.2	23.2
Panel	L x H x W	mm	647x50x647	647x50x647	950x54.5x950	950x54.5x950
	Net weight	kg	2.5	2.5	5.0	5.0
Refrigerant			R410A	R410A	R410A	R410A
Throttle			Electronic expansion valve			
Piping	Gas / liquid	mm	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Air-flow given for 7 speeds.
(*4) Sound pressure level measured in an semianechoic chamber at a distance of 1.4 m in front of the unit.
(*5) Unit dimensions include the outermost points of the casing together with fittings.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer



2-WAY UNITS

Cassette type unit with 2-way air discharge with only 300 mm in height.

TECHNICAL SPECIFICATIONS

Unit name			MQ2-22M2	MQ2-28M2	MQ2-36M2	MQ2-45M2	MQ2-56M2
Unit model			MI2-22Q2DN1	MI2-28Q2DN1	MI2-36Q2DN1	MI2-45Q2DN1	MI2-56Q2DN1
Panel			T-MBQ2-01	T-MBQ2-01	T-MBQ2-01	T-MBQ2-01	T-MBQ2-01
Power supply			220-240/1/50				
Cooling	Rated capacity (*1)	kW	2.2	2.8	3.6	4.5	5.6
	Input power	kW	0.035	0.04	0.04	0.05	0.069
Heating	Rated capacity (*2)	kW	2.6	3.2	4.0	5.0	6.3
	Input power	kW	0.035	0.04	0.04	0.05	0.069
Heat exchanger	Corrosion protection		Hydrophilic coating				
Air-flow rate (speed 1/2/3/4/5/6/7)		m^3/h	410/449/488/ 530/571/612/654	410/449/488/ 530 /571/612/654	458/509/554/ 591/641/679/725	550/592/631/ 670/731/792/850	670/710/760/ 800/860/920/970
Sound pressure level (speed 1/2/3/4/5/6/7)(*3)		dB(A)	24/25/27/29/ 30/31/33	24/25/27/29/ 30/31/33	25/27/29/30/ 32/33/35	30/31/32/34/ 35/36/37	30/31/33/35/ 36/37/39
Dimensions	Dimensions (W × H × D)	mm	1172x299x591	1172x299x591	1172x299x591	1172x299x591	1172x299x591
	Weight	kg	33.5	33.5	33.5	35.0	35
Panel	Dimensions (W × H × D)	mm	1430x53x680	1430x53x680	1430x53x680	1430x53x680	1430x53x680
	Weight	kg	10.5	10.5	10.5	10.5	10.5
Refrigerant			R410A	R410A	R410A	R410A	R410A
Throttle		Type	Electronic expansion valve				
Piping	Gas / liquid	mm	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ9.53 / Φ15.9

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Sound pressure level measured in an semianechoic chamber.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer



Cassette type unit with 1-way air discharge, ideal for use in case of narrow ceiling cavities.

1-WAY UNITS

TECHNICAL SPECIFICATIONS

Nazwa			MQ1-18M2	MQ1-22M2	MQ1-28M2	MQ1-36M2
Unit model			MI2-18Q1DN1	MI2-22Q1DN1	MI2-28Q1DN1	MI2-36Q1DN1
Panel			T-MBQ1-02D	T-MBQ1-02D	T-MBQ1-02D	T-MBQ1-02D
Power supply (V/phase/Hz)			220-240/1/50			
Cooling capacity (rated) (*1)		kW	1.8	2.2	2.8	3.6
Input power		kW	0.025	0.025	0.03	0.03
Heating capacity (rated) (*2)		kW	2.2	2.6	3.2	4.0
Input power		kW	0.025	0.025	0.03	0.03
Heat exchanger	Corrosion protection		Hydrophilic coating			
Air-flow rate (speed 1/2/3/4/5/6/7)		m^3/h	275/312/360/404/ 448/482/523	275/312/360/404/ 448/482/523	315/364/420/456/ 492/531/573	315/364/420/456/ 492/531/573
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	30/31/32/34/35/36/37	30/31/32/34/35/36/37	34/35/35/36/37/38/39	34/35/35/36/37/38/39
Dimensions	W x H x D	mm	1054×153×425	1054×153×425	1054×153×425	1054×153×425
	Net weight	kg	11.8	11.8	12.3	12.3
Panel	W x H x D	mm	1180×25×465	1180x25x465	1180×25×466	1180×25×466
	Net weight	kg	3.5	3.5	3.5	3.5
Refrigerant			R410A			
Piping	Gas / liquid	mm	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Sound pressure level measured in an semianechoic chamber.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer



Structure of these units allows to install them vertically or horizontally, providing design flexibility in the air-conditioned rooms.

INDOOR UNITS

TECHNICAL SPECIFICATIONS

Unit name			MDL-36M2	MDL-45M2	MDL-56M2	MDL-71M2
Unit model			MI2-36DLDN1	MI2-45DLDN1	MI2-56DLDN1	MI2-71DLDN1
Power supply			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated capacity (*1)	kW	3.6	4.5	5.6	7.1
	Input power	kW	0.049	0.115	0.115	0.115
	Input current	A	0.21	0.50	0.50	0.50
Heating	Rated capacity (*2)	kW	4.0	5.0	6.3	8.0
	Input power	kW	0.049	0.115	0.115	0.115
	Input current	A	0.21	0.50	0.50	0.5
Air-flow rate (speed 1/2/3/4/5/6/7)		m^3/h	420/440/460/ 480/500/525/550	420/440/460/ 480/500/525/550	720/755/792/ 830/860/895/930	720/755/792/ 830/860/895/930
Sound pressure level (speed 1/2/3/4/5/6/7)(*3)		dB(A)	36/36/37/38/38/39/40	36/36/37/38/38/39/40	38/38/39/41/41/42/43	38/38/39/41/41/42/43
Refrigerant			R410A	R410A	R410A	R410A
Throttle		Type	Electronic expansion valve			
Dimensions	Dimensions (W x H x D)	mm	990x660x203	990x660x203	990x660x203	990x660x203
	Weight	kg	26.0	26.0	28.0	28.0
Piping	Liquid	mm	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ6.35 / Φ12.7	Φ9.53 / Φ15.9

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Sound pressure level measured in an semianechoic chamber.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer

NEW



CONSOLE

Console type, floor air-conditioners combines new design and functionality.

TECHNICAL SPECIFICATIONS

Unit name			MZ-22M2	MZ-28M2	MZ-36M2	MZ-45M2
Unit model			MI2-22ZDN1	MI2-28ZDN1	MI2-36ZDN1	MI2-45ZDN1
Power supply			1- phase 220-240V 50Hz			
Cooling	Rated capacity (*1)	kW	2.2	2.8	3.6	4.5
	Input power	kW	0.02	0.025	0.025	0.035
	Input current	A	0.29	0.32	0.33	0.42
Heating	Rated capacity (*2)	kW	2.6	3.2	4.0	5.0
	Input power	kW	0.02	0.025	0.025	0.035
	Input current	A	0.29	0.32	0.33	0.42
Fan motor	Type		DC			
Heat exchanger	Corrosion protection		Hydrophilic coating			
Air-flow rate (speed 1/2/3/4/5/6/7)		m^3/h	229/268/302/ 345/374/401/430	229/286/355/ 430/456/482/510	229/286/335/ 430/456/482/510	400/436/478/ 510/561/614/660
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	26/27/28/32/34/35/38	27/29/31/33/35/37/39	27/29/31/33/35/37/39	36/36/37/39/40/41/42
Sound power level (speed 1/2/3/4/5/6/7)		dB(A)	42/43/44/48/50/52/54	43/45/47/49/51/53/55	43/45/47/49/51/53/55	52/52/53/55/56/57/58
Dimensions	Dimensions (W x H x D)	mm	700x600x210	700x600x210	700x600x210	700x600x210
	Weight	kg	14	15	15	15
Refrigerant			R410A	R410A	R410A	R410A
Throttle		Type	Electronic expansion valve			
Protections		A	15	15	15	15
Piping	Liquid	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
	Gas	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7

Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Sound pressure level measured in an semianechoic chamber.
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)

CONTROL SYSTEM

RM12D	Wireless remote controller
WDC-86E/KD	Wired remote controller with flat touch panel and Follow Me function
WDC-120G/WK	Wired remote controller with group control function and weekly timer





Midea BUSINESS





SERIES

COMPACT

Compact and light cassette type units with 4-way air outlet, ensure even air distribution throughout the room.

REFRIGERANT
R32

SEER
A++

SCOP
A++

EUROVENT CERTIFIED PERFORMANCE
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INDOOR UNIT



OUTDOOR UNIT

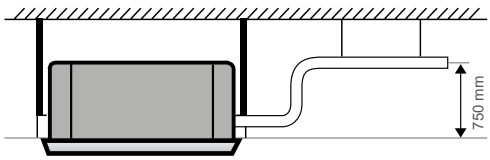


CONTROLLER

UNIQUE FEATURES:

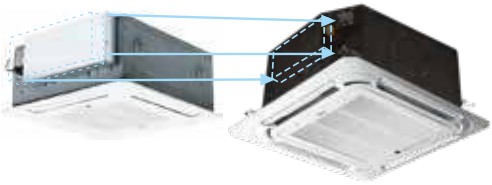
1 BUILT-IN DRAIN PUMP

The built-in drain pump with a lift height up to 750 mm, facilitates flexible connection of the drain hose in the space above the suspended ceiling.



2 EASILY ACCESSIBLE ELECTRIC BOX

Easily accessible electric box is placed inside the indoor unit. This integrated structure ensures compact dimensions and simplified installation.



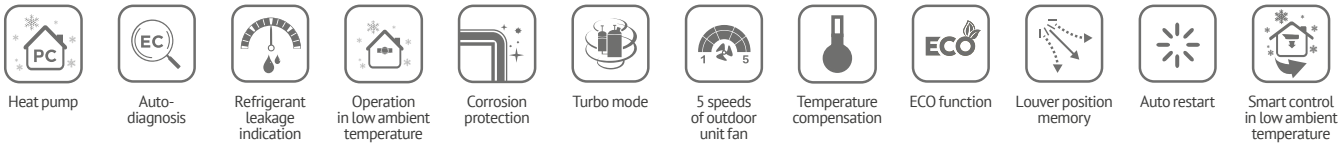
3 FRESH AIR

Fresh air can be supplied to the building with use of a system of ducts (diameter ø90). This allows to maintain proper amount of air in a room, necessary for ventilation and occupants' comfort.



STANDARD FUNCTIONS

With wireless remote controller: RG70C.



Heat pump | Auto-diagnosis | Refrigerant leakage indication | Operation in low ambient temperature | Corrosion protection | Turbo mode | 5 speeds of outdoor unit fan | Temperature compensation | ECO function | Louver position memory | Auto restart | Smart control in low ambient temperature



Cold air-flow control | Horizontal louver setting | Swing | Drain pump | Easy panel cleaning | Filter | Fresh air | Timer | Remote On/Off | Split & Multi | Comfort mode | Sleep mode

OPTIONAL FUNCTIONS



WiFi | Wired remote controller

TECHNICAL SPECIFICATIONS

Set*				**KMCA-12N8-B1**	**KMCA-18N8-B1**
Indoor unit				MCA3U-12FNXD0	MCA3U-18FNXD0
Outdoor unit				MOB30-12HFN8	MOUU-18FN8-QD0
Panel: white / black				T-MBQ-03C3 / T-MBQ-03C3B	
Indoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50
Outdoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50
Version				Reversible heat pump	
Cooling	Capacity	Rated	kW	3.5	5.3
		Min-Max	kW	1.5~5.3	2.9~5.7
	Rated input power		kW	0.85	1.63
	EER		kW/kW	4.12	3.25
	Annual power consumption		kWh/year	183	278
	SEER			7.8	6.1
	Energy efficiency class			A++	A++
Heating	Capacity	Rated	kW	4.4	5.4
		Min-Max	kW	1.0~5.6	2.4~6.1
	Rated input power		kW	1.10	1.46
	COP		kW/kW	4.00	3.70
	Annual power consumption		kWh/year	1141	1626
	SCOP			4.6	4.0
	Energy efficiency class			A++	A+
Maximum input current			A	10.0	13.5
Indoor unit	Dimensions (width x depth x height)		mm	570x570x260	570x570x260
	Weight		kg	16.2	16.5
	Air-flow (low/medium/high)		m^3/h	416/504/617	540/625/720
	Sound pressure level (low/medium/high)		dB(A)	33/36/41	35/39/42
	Sound power level		dB(A)	51	56
Panel	Dimensions (width x depth x height)		mm	647x647x50	647x647x50
	Weight		kg	2.5	2.5
Outdoor unit	Dimensions (width x depth x height)		mm	800x333x554	800x333x554
	Weight		kg	34.7	34.7
	Air-flow		m^3/h	2000	2000
	Sound pressure level		dB(A)	55	55
	Sound power level		dB(A)	63	65
Refrigerant	Type			R32	R32
	Factory charged		kg	0.87	1.15
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7
	Type		m	25 / 10	30 / 20
Ambient temp. range		Cooling	°C	-15 ~ 50	
		Heating	°C	-15 ~ 30	

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer
*Symbols of sets with units in black painting: KMCA-12N8-B1B, KMCA-18N8-B1B





SERIES

SLIM

Slim cassette type units with 360° air-flow, ideal for rooms with a height of up to 4 m.

REFRIGERANT
R32

SEER
A++

SCOP
A+

EUROVENT CERTIFIED PERFORMANCE
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4-WAY UNITS



OUTDOOR UNIT



CONTROLLER

UNIQUE FEATURES:

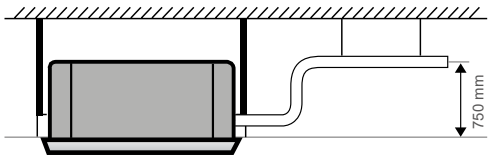
1 PANEL WITH 360° AIR-FLOW

A new panel with 360° air-flow enables even air distribution throughout the whole room. This allows to obtain comfort conditions on much bigger area.



2 BUILT-IN DRAIN PUMP

The built-in drain pump with a lift height up to 750 mm, facilitates flexible connection of the drain hose in the space above the suspended ceiling.



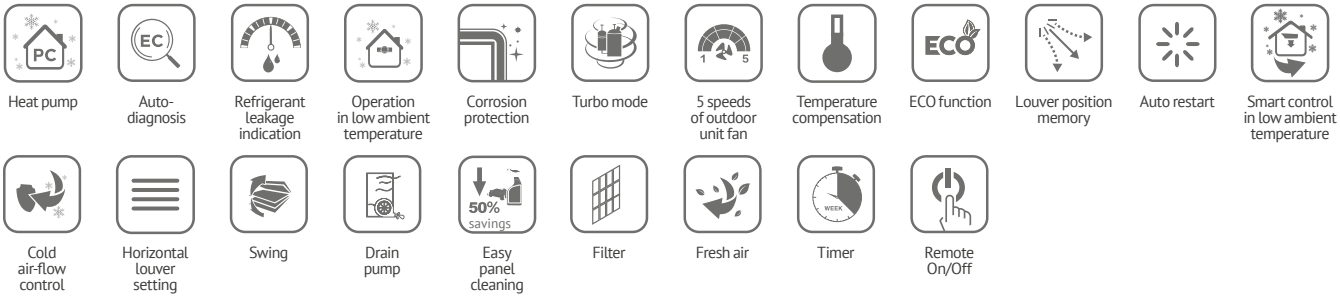
3 OPERATION CONTROL IN LOW TEMPERATURES

Outdoor unit controls state of the refrigerant thermodynamic transformation process that occurs in the heat exchanger and decides about turning on the fan. In case the thermodynamic process capacity shall decrease, the unit activates one of the 5 available fan speeds.



STANDARD FUNCTIONS

With wireless remote controller: RG70C.



Heat pump | Auto-diagnosis | Refrigerant leakage indication | Operation in low ambient temperature | Corrosion protection | Turbo mode | 5 speeds of outdoor unit fan | Temperature compensation | ECO function | Louver position memory | Auto restart | Smart control in low ambient temperature

Cold air-flow control | Horizontal louver setting | Swing | Drain pump | Easy panel cleaning | Filter | Fresh air | Timer | Remote On/Off

OPTIONAL FUNCTIONS



WiFi | Wired remote controller | Comfort mode | Sleep mode

TECHNICAL SPECIFICATIONS

Set*				**KMCD-24N8-B1**	**KMCD-36N8-B1**	**KMCD-36N8-B3**	**KMCD-42N8-B3**	**KMCD-48N8-B3**	**KMCD-55N8-B3**
Indoor unit				MCD-24FNXD0	MCD-36FNXD0	MCD-36FNXD0	MCD-42FNXD0	MCD-48FNXD0	MCD-55FNXD0
Outdoor unit				MOU-24FN8-QD0	MOU-36FN8-QD0	MOU-36FN8-RD0	MOU-42FN8-RD0	MOU-48FN8-RD0	MOU-55FN8-RD0
Panel: white / black				T-MBQ-02M2 / T-MBQ-02M2B					
Indoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Outdoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Version				Reversible heat pump					
Cooling	Capacity	Rated	kW	7.0	10.3	10.5	12.3	13.6	15.7
		Min-Max	kW	2.2~8.2	2.6~12.0	2.6~12.0	3.2~13.2	4.8~14.6	5.3~16.7
	Rated input power		kW	2.19	3.81	3.90	4.09	5.42	5.99
	EER		kW/kW	3.21	2.70	2.69	3.01	2.51	2.62
	Annual power consumption		kWh/year	401	593	593	750	805	893
	SEER			6.1	6.1	6.1	6.1	6.1	6.1
	Energy efficiency class			A++	A++	A++	A++	A++	A++
Heating	Capacity	Rated	kW	7.4	10.9	11.1	13.5	15.9	18.2
		Min-Max	kW	2.4~8.7	2.9~13.2	2.9~13.2	2.9~14.7	3.9~16.8	4.4~19.3
	Rated input power		kW	1.98	3.00	2.97	3.54	5.34	6.03
	COP		kW/kW	3.72	3.63	3.74	3.81	2.98	3.02
	Annual power consumption		kWh/year	1890	2824	2824	3654	3903	4123
	SCOP			4.0	4.0	4.0	4.0	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+	A+	A+
Maximum input current			A	13.5	21.5	10.0	12.0	11.2	14.0
Indoor unit	Dimensions (width x depth x height)		mm	840x840x245	840x840x245	840x840x245	840x840x245	840x840x287	840x840x287
	Weight		kg	23.0	27.5	27.5	27.5	29.0	29.7
	Air-flow (low/medium/high)		m^3/h	1032/1200/1378	1438/1620/1775	1438/1620/1775	1438/1620/1775	1381/1568/1715	1537/1737/1970
	Sound pressure level (low/medium/high)		dB(A)	40/43/47	46/49/52	46/49/52	46/49/52	49/50/52	48/50/53
	Sound power level		dB(A)	60	63	63	63	65	65
Panel	Dimensions (width x depth x height)		mm	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55	950x950x55
	Weight		kg	5.0	5.0	5.0	5.0	5.0	5.0
Outdoor unit	Dimensions (width x depth x height)		mm	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
	Weight		kg	49.4	66.9	81.5	81.5	106.7	111.3
	Air-flow		m^3/h	2700	4000	4000	4000	7500	7500
	Sound pressure level		dB(A)	62	64	64	64	66	66
	Sound power level		dB(A)	66	68	68	68	72	77
Refrigerant	Type			R32	R32	R32	R32	R32	R32
	Factory charged		kg	1.50	2.40	2.40	2.40	2.80	2.95
Refrigerant piping	Liquid/gas		mm	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	50 / 25	65 / 30	65 / 30	65 / 30	65 / 30	65 / 30
Ambient temp. range		Cooling	°C	-15 ~ 50					
		Heating	°C	-15 ~ 30					

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*Symbols of sets with units in black painting: KMCD-24N8-B1B, KMCD-36N8-B1B, KMCD-36N8-B3B, KMCD-42N8-B3B, KMCD-48N8-B3B, KMCD-55N8-B3B





CEILING-FLOOR

Universal units for under ceiling or above floor installation are ideal solution for various air-conditioning demands.

REFRIGERANT
R32

SEER
A++

SCOP
A+

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com



INDOOR UNIT



OUTDOOR UNIT

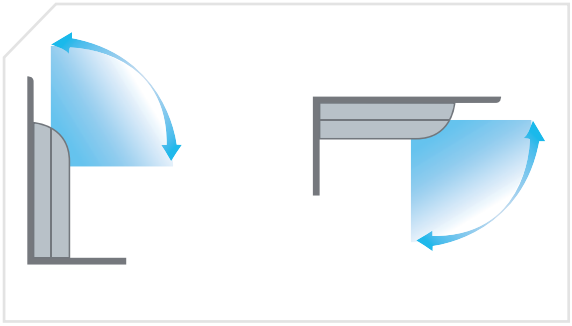


CONTROLLER

UNIQUE FEATURES:

1 VERTICAL AND HORIZONTAL INSTALLATION

Unit construction enables convenient vertical or horizontal installation, depending on interior arrangement possibilities. Easy under ceiling installation is possible even in narrow spaces, in corners. While above floor installation is an ideal solution for rooms with slants.



2 3D AIR-FLOW

Cooled air quickly reaches even the farthest spaces of the air-conditioned room. With the louvers swinging automatically in vertical and horizontal direction, air-flow is more uniform, and conditions more comfortable.



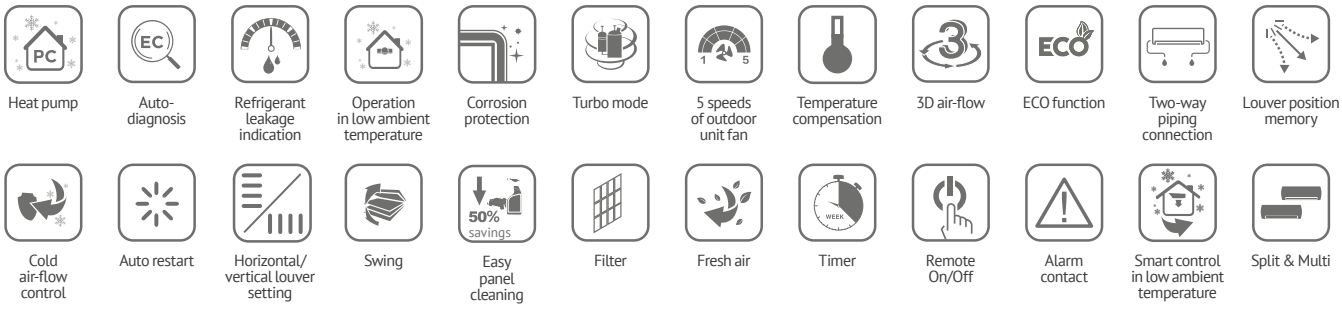
3 TURBO FUNCTION

With this function, the demanded cooling effect can be obtained in shorter time, thereby the set temperature is reached faster.



STANDARD FUNCTIONS

With wireless remote controller: RG70C.



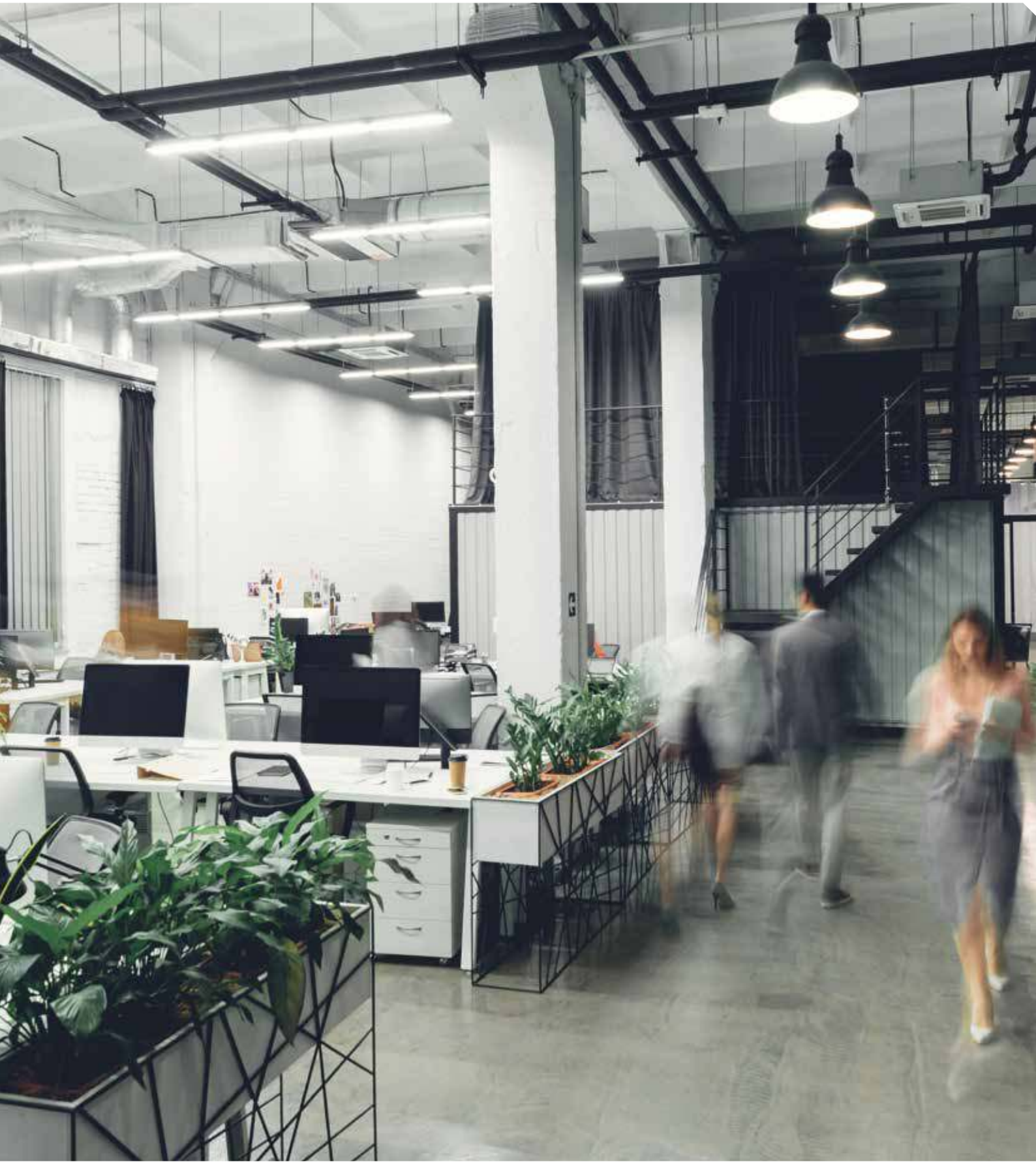
OPTIONAL FUNCTIONS



TECHNICAL SPECIFICATIONS

Set				KMUE-18N8-B1	KMUE-24N8-A1	KMUE-36N8-A1	KMUE-36N8-A3	KMUE-42N8-B3	KMUE-48N8-A3	KMUE-55N8-A3
Indoor unit				MUEU-18FNXD0	MUE-24FNXD0	MUE-36FNXD0	MUE-36FNXD0	MUE-42FNXD0	MUE-48FNXD0	MUE-55FNXD0
Outdoor unit				MOUU-18FN8-QD0	MOU-24FN8-QD0	MOU-36FN8-QD0	MOU-36FN8-RD0	MOU-42FN8-RD0	MOU-48FN8-RD0	MOU-55FN8-RD0
Indoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Outdoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Version				Reversible heat pump						
Cooling	Capacity	Rated	kW	5.3	6.9	10.4	10.5	12.1	14.2	15.9
		Min-Max	kW	2.7~5.6	2.2~8.2	2.6~12.0	2.6~12.0	3.2~13.2	5.0~15.1	5.3~17.0
	Rated input power		kW	1.63	2.22	3.85	4.03	4.03	5.50	6.06
	EER		kW/kW	3.25	3.12	2.70	2.61	3.00	2.58	2.62
	Annual power consumption		kWh/year	280	393	556	556	750	801	916
	SEER			6.1	6.1	6.1	6.1	6.1	6.1	6.1
	Energy efficiency class			A++	A++	A++	A++	A++	A++	A++
Heating	Capacity	Rated	kW	5.6	7.6	11.1	11.1	13.5	16.1	18.2
		Min-Max	kW	2.4~6.3	2.4~8.7	2.9~13.2	2.9~13.2	2.9~14.7	3.8~18.1	4.4~19.6
	Rated input power		kW	1.50	2.12	2.98	3.00	3.49	5.05	6.04
	COP		kW/kW	3.73	3.59	3.72	3.71	3.87	2.93	3.02
	Annual power consumption		kWh/year	1640	1858	3052	3052	3654	4005	4138
	SCOP			4.0	4.0	4.0	4.0	4.0	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+	A+	A+	A+
Maximum input current			A	13.5	13.5	21.5	10.0	12.0	11.2	14.0
Indoor unit	Dimensions (width x depth x height)		mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235	1650x675x235	1650x675x235	1650x675x235
	Weight		kg	28.0	26.8	39.0	39.0	40.5	41.2	41.4
	Air-flow (low/medium/high)		m^3/h	650/760/880	853/1066/1208	1431/1844/2160	1431/1844/2160	1400/1800/2100	1417/1930/2329	1426/1834/2554
	Sound pressure level (low/medium/high)		dB(A)	34/38/41	41/46/50	42/47/51	42/47/51	43/49/55	46/50/54	42/47/54
	Sound power level		dB(A)	58	62	61	61	71	67	69
Outdoor unit	Dimensions (width x depth x height)		mm	800x333x554	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
	Weight		kg	34.7	49.4	66.9	81.5	70.5	106.7	111.3
	Air-flow		m^3/h	2000	2700	4000	4000	4300	7500	7500
	Sound pressure level		dB(A)	55	62	64	64	61	66	66
	Sound power level		dB(A)	65	66	68	68	71	72	77
Refrigerant	Type			R32	R32	R32	R32	R32	R32	R32
	Factory charged		kg	1.15	1.50	2.40	2.40	2.80	2.80	2.95
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	30 / 20	50 / 25	65 / 30	65 / 30	65 / 30	65 / 30	65 / 30
Ambient temp. range		Cooling	°C	-15 ~ 50						
		Heating	°C	-15 ~ 30						

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





DUCT

Slim duct type units provides high available static pressure, fresh air supply and effective use of the space above ceiling.

REFRIGERANT
R32

SEER
A++

SCOP
A+

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com



INDOOR UNIT



OUTDOOR UNIT

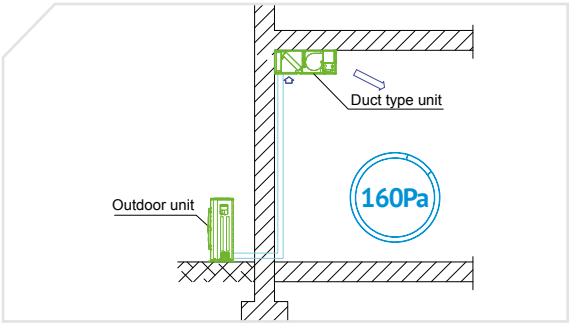


CONTROLLER

UNIQUE FEATURES:

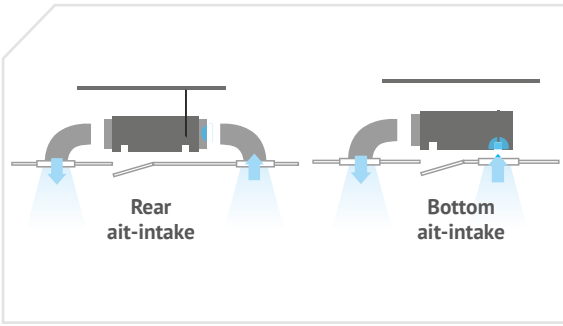
1 HIGH STATIC PRESSURE UP TO 160Pa

High available static pressure up to 160 PA, significantly improves flexibility of the duct type unit installation design. Owing to this, air easily overcomes linear and local drags in refrigerant installation.



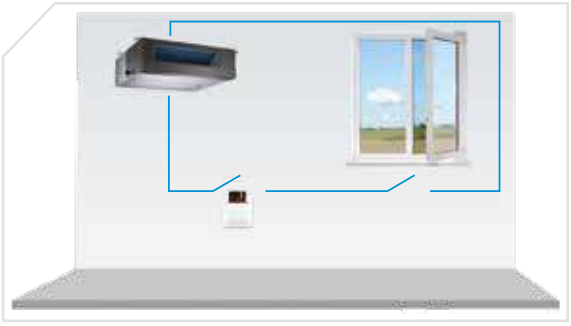
2 ADJUSTING THE AIR INTAKE

There are available two air intakes - a standard one from the back and an optional from the bottom of the unit. Dimensions of both intake flanges are the same, what simplifies changing the side of air suction.



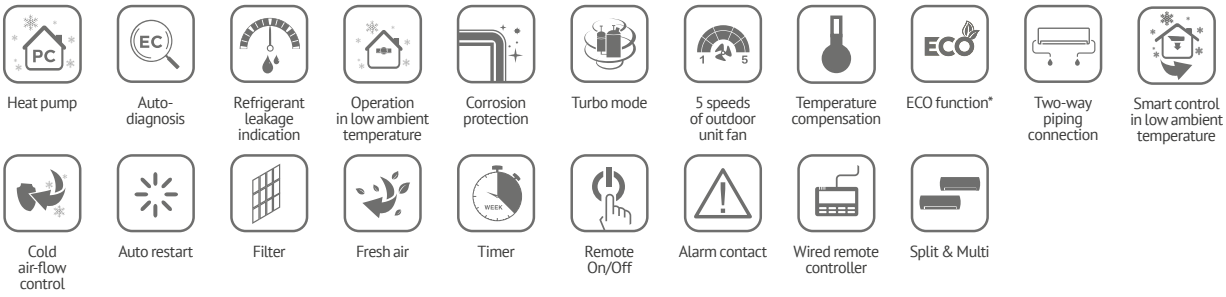
3 WINDOW CONTACT AND HOTEL KEYCARD

Sensors signal opening or closing a window, automatically turning off or on the air-conditioner. Integration with a hotel keycard, presence sensor and window contact as a standard, ensures efficient operation of the unit in such facilities as guesthouse, store or hotel.



STANDARD FUNCTIONS

With wired remote controller: KJR-120C1.



OPTIONAL FUNCTIONS



TECHNICAL SPECIFICATIONS

Set				KMTI-12N8-B1	KMTI-18N8-B1	KMTI-24N8-A1	KMTI-36N8-A1	KMTI-36N8-A3	KMTI-42N8-B3	KMTI-48N8-A3	KMTI-55N8-A3
Indoor unit				MTIU-12FNXD0	MTIU-18FNXD0	MTI-24FNXD0	MTI-36FNXD0	MTI-36FNXD0	MTI-42FNXD0	MTI-48FNXD0	MTI-55FNXD0
Outdoor unit				MOB30-12HFN8	MOUU-18FN8-QD0	MOU-24FN8-QD0	MOU-36FN8-QD0	MOU-36FN8-RD0	MOU-42FN8-RD0	MOU-48FN8-RD0	MOU-55FN8-RD0
Indoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Outdoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Version				Reversible heat pump							
Cooling	Capacity	Rated	kW	3.5	5.3	7.0	10.4	10.4	12.1	14.0	15.4
		Min-Max	kW	1.5~4.8	2.6~5.7	2.2~8.2	2.6~12.0	2.6~12.0	3.2~13.2	4.2~15.2	5.9~17.3
	Rated input power		kW	0.95	1.63	2.19	3.91	4.06	4.11	5.15	5.42
	EER		kW/kW	3.68	3.25	3.20	2.66	2.56	2.94	2.72	2.84
	Annual power consumption		kWh/year	183	278	390	614	614	750	808	935
	SEER			6.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1
	Energy efficiency class			A++	A++	A++	A++	A++	A++	A++	A++
Heating	Capacity	Rated	kW	4.1	5.9	7.6	11.1	11.2	13.4	16.0	17.7
		Min-Max	kW	1.0~5.6	2.2~6.2	2.4~8.7	2.9~13.2	2.9~13.2	2.9~14.7	3.7~18.0	4.7~20.5
	Rated input power		kW	1.10	1.58	2.04	3.07	2.99	3.49	4.26	5.18
	COP		kW/kW	3.73	3.73	3.72	3.62	3.71	3.84	3.76	3.42
	Annual power consumption		kWh/year	1141	1626	1902	3016	3016	3654	4261	4302
	SCOP			4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+	A+	A+	A+	A+
Maximum input current			A	10.0	13.5	13.5	21.5	10.0	12.0	11.2	14.0
Indoor unit	Dimensions (width x depth x height)		mm	700x450x200	880x674x210	1100x774x249	1360x774x249	1360x774x249	1360x774x249	1200x874x300	1200x874x300
	Weight		kg	18.0	24.3	31.5	40.5	40.5	40.5	47.6	47.6
	External static pressure		Pa	25 (0~60)	25 (0~100)	25 (0~160)	37 (0~160)	37 (0~160)	37 (0~160)	50 (0~160)	50 (0~160)
	Air-flow (low/medium/high)		m^3/h	300/480/600	350/650/880	839/1054/1248	750/1150/1400	750/1150/1400	750/1150/1400	1680/2040/2400	1820/2210/2600
	Sound pressure level (low/medium/high)		dB(A)	26/30/35	33/38/41	40/42/44	40/43/47	40/43/47	40/43/47	48/49/50	50/52/54
	Sound power level		dB(A)	56	59	63	64	64	64	69	74
Outdoor unit	Dimensions (width x depth x height)		mm	800x333x554	800x333x554	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
	Weight		kg	34.7	34.7	49.4	66.9	81.5	81.5	106.7	111.3
	Air-flow		m^3/h	2000	2000	2700	4000	4000	4000	7500	7500
	Sound pressure level		dB(A)	55	55	62	64	64	64	66	66
	Sound power level		dB(A)	63	65	66	68	68	68	72	77
Refrigerant	Type			R32	R32	R32	R32	R32	R32	R32	R32
	Factory charged		kg	0.87	1.15	1.50	2.40	2.40	2.40	2.80	2.95
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	25 / 10	30 / 20	50 / 25	65 / 30	65 / 30	65 / 30	65 / 30	65 / 30
Ambient temp. range		Cooling	°C	-15 ~ 50							
		Heating	°C	-15 ~ 30							

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*Function available with the wireless remote controller: RG70C

TECHNICAL SPECIFICATIONS

Outdoor unit				MOB30-12HFN8	MOUU-18FN8-QD0	MOU-24FN8-QD0	MOU-36FN8-QD0
Outdoor unit power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Version				Reversible heat pump			
Cooling	Capacity	Rated	kW	3.5	5.3	7.0	10.4
		Min-Max	kW	1.5~5.3	2.9~5.7	2.2~8.2	2.6~12.0
	Rated input power		kW	0.85	1.63	2.19	3.91
	EER		kW/kW	4.12	3.25	3.21	2.66
	SEER			7.8	6.1	6.1	6.1
	Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated	kW	4.4	5.4	7.4	11.1
		Min-Max	kW	1.0~5.6	2.4~6.1	2.4~8.7	2.9~13.2
	Rated input power		kW	1.10	1.46	1.98	3.07
	COP		kW/kW	4.00	3.70	3.72	3.62
	SCOP			4.6	4.0	4.0	4.0
	Energy efficiency class			A++	A+	A+	A+
Maximum input current			A	10.0	13.5	13.5	10.0
Maximum input power			W	2350	2950	2950	5600
Air-flow			m^3/h	2000	2000	2700	4000
Sound pressure level			dB(A)	55	55	62	64
Sound power level			dB(A)	63	65	66	68
Dimensions (width x depth x height)			mm	800x333x554	800x333x554	845x363x702	946x410x810
Weight			kg	34.7	34.7	49.4	66.9
Refrigerant	Type			R32	R32	R32	R32
	Factory charged		kg	0.87	1.15	1.50	2.40
Refrigerant piping	Liquid/gas		mm	Ø6.35 / Ø9.52	Ø6.35 / Ø12.7	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	25 / 10	30 / 20	50 / 25	65 / 30
Ambient temp. range		Cooling	°C	-15 ~ 50			
		Heating	°C	-15 ~ 30			

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

TECHNICAL SPECIFICATIONS

Outdoor unit				**MOU-36FN8-RD0**	**MOU-42FN8-RD0**	**MOU-48FN8-RD0**	**MOU-55FN8-RD0**
Outdoor unit power supply (V/phase/Hz)				380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Version				Reversible heat pump			
Cooling	Capacity	Rated	kW	10.5	12.1	13.6	15.7
		Min-Max	kW	2.6~12.0	3.2~13.2	4.8~14.6	5.3~16.7
	Rated input power		kW	3.90	4.11	5.42	5.99
	EER		kW/kW	2.69	2.94	2.51	2.62
	SEER			6.1	6.1	6.1	6.1
	Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated	kW	11.1	13.4	15.9	18.2
		Min-Max	kW	2.9~13.2	2.9~14.7	3.9~16.8	4.4~19.3
	Rated input power		kW	2.97	3.49	5.34	6.03
	COP		kW/kW	3.74	3.84	2.98	3.02
	SCOP			4.0	4.0	4.0	4.0
	Energy efficiency class			A+	A+	A+	A+
Maximum input current			A	10.0	12.0	11.2	14.0
Maximum input power			W	5600	5600	6200	7500
Air-flow			m^3/h	4000	4000	7500	7500
Sound pressure level			dB(A)	64	64	66	66
Sound power level			dB(A)	68	68	72	77
Dimensions (width x depth x height)			mm	946x410x810	946x410x810	952x415x1333	952x415x1333
Weight			kg	81.5	81.5	106.7	111.3
Refrigerant	Type			R32	R32	R32	R32
	Factory charged		kg	2.40	2.40	2.80	2.95
Refrigerant piping	Liquid/gas		mm	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9	Ø9.52 / Ø15.9
	Max. length / Max. height difference		m	65 / 30	65 / 30	65 / 30	65 / 30
Ambient temp. range		Cooling	°C	-15 ~ 50			
		Heating	°C	-15 ~ 30			

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m, the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





Midea THERMAL


5991





SERIES

M-THERMAL

NEW

The II generation M-Thermal air/water heat pump system is a comprehensive solution for space heating, domestic hot water production as well as space cooling.

REFRIGERANT
R32

ERP
A+++

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

NEW



MONO SERIES



SPLIT SERIES

PRINCIPLE OF THE **HEAT PUMP** OPERATION

Heat pump is an energy efficient system, which absorbs heat from the surrounding outdoor air for central heating and domestic hot water production. M-Thermal II Generation heat pumps also enable to reverse the whole process in case of need for cooling, in order to remove the heat from the room air.



The heating capacity of the heat pumps decreases with ambient temperature. M-Thermal Mono and Split units can be equipped with an electric heater to provide additional heating capacity for use during extremely cold weather (when the heat pump capacity is insufficient). The backup electric heater also serves as a backup in case of heat pump malfunction and for anti-freeze protection of the outside water piping in winter.

LINEUP

Mono series (4-30kW)
Monoblock unit. Only outdoor unit with a built-in compressor and hydronic system.



4/6 kW



8/10/12/14/16 kW



18/22/26/30 kW

Split series (4-16kW)
A set of units including an outdoor unit with a built-in compressor system and an indoor unit - hydrobox with a complete hydronic module.



4/6 kW



8/10 kW



12/14/16kW

MAIN FEATURES

- High performance heating system - energy efficiency level A+++; maximum single COP point 5,20.
- Warranty of stable hot water supply - at outdoor temperature of -25°C; maximum water temperature 65°C (60°C for 18-30 kW models).
- The use of only one fan provides high capacity at lower noise level.
- USB port for convenient software update and parameters setting.
- Double control zones - maximum 8 zones (option).
- Parallel control. Max. 6 units can be controlled with use of a single controller.
- Smart Grid function ensures low operational costs.
- Heating curve function - weather dependent operation with climate correlation to provide total comfort.
- Wired remote controller with Polish menu and built-in WiFi interface and temperature sensor.
- MSmartLife application for smartphones.
- Energy consumption and management statistics.

REMOTE CONTROLLER

M-Thermal II Generation heat pumps come standard with the wired remote controller with Polish menu, which controls operation of the unit and the whole heating system. During installation it is necessary to configure settings and parameters of the unit, in order to adapt them to the requirements and specifications of the installation, climate conditions and end user's preferences. Appropriate settings are available and programmable in the wired controller or mobile application MSmartLife.



TECHNICAL SPECIFICATIONS MONO VERSION

Outdoor unit			MHC-V4W/ D2N8-B	MHC-V6W/ D2N8-B	MHC-V8W/ D2N8-B	MHC-V10W/ D2N8-B	MHC-V12W/ D2N8-B	MHC-V14W/ D2N8-B	MHC-V16W/ D2N8-B
Power supply		kW/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Heating (A7W35)	Capacity	kW	4.20	6.35	8.40	10.0	12.10	14.50	15.90
	Input power	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53
	COP		5.12	4.96	5.15	4.95	4.96	4.60	4.50
Heating (A7W45)	Capacity	kW	4.30	6.30	8.10	10.00	12.30	14.10	16.00
	Input power	kW	1.13	1.70	2.10	2.67	3.32	3.92	4.57
	COP		3.81	3.71	3.86	3.75	3.70	3.60	3.50
Heating (A7W55)	Capacity	kW	4.40	6.00	7.50	9.50	11.90	13.80	16.00
	Input power	kW	1.49	2.03	2.36	3.06	3.90	4.68	5.61
	COP		2.95	2.96	3.18	3.10	3.05	2.95	2.85
Cooling (A35W18)	Capacity	kW	4.50	6.50	8.30	9.90	12.00	13.50	14.90
	Input power	kW	0.82	1.35	1.64	2.18	3.04	3.75	4.38
	EER		5.49	4.81	5.06	4.54	3.95	3.60	3.40
Cooling (A35W7)	Capacity	kW	4.70	7.00	7.45	8.20	11.50	12.40	14.00
	Input power	kW	1.36	2.33	2.22	2.52	4.18	4.96	5.60
	EER		3.46	3.00	3.36	3.25	2.75	2.50	2.50
Energy efficiency class	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++	A++	A++
Sound power level[1]	Heating (A7W35)	dB(A)	55	58	59	60	65	65	68
Sound pressure level[2]		dB(A)	45	47.5	48.5	50.5	53	53.5	57.5
Outdoor fan	Motor type		DC	DC	DC	DC	DC	DC	DC
	No. of fans		1	1	1	1	1	1	1
Refrigerant	Type/Factory charged	-/kg	R32/1.4	R32/1.4	R32/1.4	R32/1.4	R32/1.75	R32/1.75	R32/1.75
Dimensions	Width x Height x Depth	mm	1295x792x429	1295x792x429	1385x945x526	1385x945x526	1385x945x526	1385x945x526	1385x945x526
Transport dimensions	Width x Height x Depth	mm	1375x945x475	1375x945x475	1465x1120x560	1465x1120x560	1465x1120x560	1465x1120x560	1465x1120x560
Weight	Net/gross	kg	98/121	98/121	121/148	121/148	144/170	144/170	144/170
Operating temperature range (outdoor)	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
	Domestic hot water	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
Water outlet temperature range	Cooling	°C	5~30	5~30	5~30	5~30	5~30	5~30	5~30
	Heating	°C	12~65	12~65	12~65	12~65	12~65	12~65	12~65
	Domestic hot water (tank)	°C	10~60	10~60	10~60	10~60	10~60	10~60	10~60

1. Sound power testing standard: EN12102-1.
2. Sound pressure level measured at a distance of 1m from the unit and (1+H)/2m (where H is the height of the unit) above the floor in a semianechoic chamber.
Conditions of measurement of the sound pressure level:
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 30°C, outlet water temp. 35°C.
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 47°C, outlet water temp. 55°C.

TECHNICAL SPECIFICATIONS MONO VERSION

Outdoor unit			MHC-V12W/ D2RN8-B	MHC-V14W/ D2RN8-B	MHC-V16W/ D2RN8-B	MHC-V18W/ D2RN8	MHC-V22W/ D2RN8	MHC-V26W/ D2RN8	MHC-V30W/ D2RN8
Power supply		kW/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Heating (A7W35)	Capacity	kW	12.10	14.50	15.90	18.0	22.00	26.00	30.10
	Input power	kW	2.44	3.15	3.53	3.83	5.00	6.37	8.03
	COP		4.96	4.60	4.50	4.70	4.40	4.08	3.75
Heating (A7W45)	Capacity	kW	12.30	14.10	16.00	18.00	22.00	26.00	30.00
	Input power	kW	3.32	3.92	4.57	5.14	6.47	8.39	10.34
	COP		3.70	3.60	3.50	3.50	3.40	3.10	2.90
Heating (A7W55)	Capacity	kW	11.90	13.80	16.00	18.00	22.00	26.00	30.00
	Input power	kW	3.90	4.68	5.61	6.54	8.30	10.61	13.04
	COP		3.05	2.95	2.85	2.75	2.65	2.45	2.30
Cooling (A35W18)	Capacity	kW	12.00	13.50	14.90	18.50	23.00	27.00	31.00
	Input power	kW	3.04	3.75	4.38	3.89	5.00	6.28	7.75
	EER		3.95	3.60	3.40	4.76	4.60	4.30	4.00
Cooling (A35W7)	Capacity	kW	11.50	12.40	14.00	17.00	21.00	26.00	30.00
	Input power	kW	4.18	4.96	5.60	5.57	7.12	9.63	12.76
	EER		2.75	2.50	2.50	3.05	2.95	2.70	2.35
Energy efficiency class	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++	A+	A+
Sound power level[1]	Heating (A7W35)	dB(A)	65	65	68	71	73	75	77
Sound pressure level[2]		dB(A)	53.5	54	58	-	-	-	-
Outdoor fan	Motor type		DC	DC	DC	DC	DC	DC	DC
	No. of fans		1	1	1	2	2	2	2
Refrigerant	Type/Factory charged	-/kg	R32/1.75	R32/1.75	R32/1.75	R32/5.0	R32/5.0	R32/5.0	R32/5.0
Dimensions	Width x Height x Depth	mm	1385x945x526	1385x945x526	1385x945x526	1129x1558x528	1129x1558x528	1129x1558x528	1129x1558x528
Transport dimensions	Width x Height x Depth	mm	1385x945x526	1385x945x526	1385x945x526	1220x1725x565	1220x1725x565	1220x1725x565	1220x1725x565
Weight	Net/gross	kg	160/188	160/188	160/188	177/206	177/206	177/206	177/206
Operating temperature range (outdoor)	Cooling	°C	-5~43	-5~43	-5~43	-5~46	-5~46	-5~46	-5~46
	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
	Domestic hot water	°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43
Water outlet temperature range	Cooling	°C	5~30	5~30	5~30	5~25	5~25	5~25	5~25
	Heating	°C	12~65	12~65	12~65	25~60	25~60	25~60	25~60
	Domestic hot water (tank)	°C	10~60	10~60	10~60	40~60	40~60	40~60	40~60

1. Sound power testing standard: EN12102-1.
2. Sound pressure level measured at a distance of 1m from the unit and (1+H)/2m (where H is the height of the unit) above the floor in a semianechoic chamber.
Conditions of measurement of the sound pressure level:
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 30°C, outlet water temp. 35°C.
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 47°C, outlet water temp. 55°C.

TECHNICAL SPECIFICATIONS SPLIT VERSION

Set			M-Thermal-4B1HB	M-Thermal-6B1HB	M-Thermal-8B1HB	M-Thermal-10B1HB	M-Thermal-12B1HB
Outdoor unit			MHA-V4W/D2N8-B	MHA-V6W/D2N8-B	MHA-V8W/D2N8-B	MHA-V10W/D2N8-B	MHA-V12W/D2N8-B
Hydronic module			HB-A60/CGN8-B	HB-A60/CGN8-B	HB-A100/CGN8-B	HB-A100/CGN8-B	HB-A160/CGN8-B
Power supply		kW/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Heating (A7W35)	Capacity	kW	4.25	6.20	8.30	10.00	12.10
	Input power	kW	0.82	1.24	1.60	2.00	2.44
	COP		5.18	5.00	5.19	5.00	4.96
Heating (A7W45)	Capacity	kW	4.35	6.35	8.20	10.00	12.30
	Input power	kW	1.14	1.69	2.08	2.63	3.24
	COP		3.82	3.76	3.94	3.80	3.80
Heating (A7W55)	Capacity	kW	4.40	6.00	7.50	9.50	12.00
	Input power	kW	1.49	2.00	2.36	3.06	3.87
	COP		2.95	3.00	3.18	3.10	3.10
Cooling (A35W18)	Capacity	kW	4.50	6.55	8.40	10.00	12.00
	Input power	kW	0.81	1.34	1.66	2.08	3.00
	EER		5.56	4.89	5.06	4.81	4.00
Cooling (A35W7)	Capacity	kW	4.70	7.00	7.40	8.20	11.60
	Input power	kW	1.36	2.33	2.19	2.48	4.22
	EER		3.46	3.00	3.38	3.31	2.75
Energy efficiency class	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++
SCOP	Outlet water temperature 35°C		4.85	4.95	5.21	5.19	4.81
	Outlet water temperature 55°C		3.31	3.52	3.36	3.49	3.45
SEER	Outlet water temperature 7°C		4.99	5.34	5.84	5.98	4.89
	Outlet water temperature 18°C		7.77	8.21	8.95	8.78	7.10
MOP (max. overcurrent protection)			18	18	19	19	30
MCA (min. circuit ampacity)			12	14	16	17	25
Sound power level[1]	Heating (A7W35)	dB(A)	56	58	59	60	64
Sound pressure level[2]		dB(A)	44.1	46.4	47.3	49.8	51.2
Outdoor fan	Motor type		DC	DC	DC	DC	DC
	No. of fans		1	1	1	1	1
Refrigerant	Type/Factory charged	-/kg	R32/1.5	R32/1.5	R32/1.65	R32/1.65	R32/1.84
Piping	Liquid / Gas	mm	Ø6.35/Ø15.9	Ø6.35/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9
	Min. piping length	m	2	2	2	2	2
	Max. piping length	m	30	30	30	30	30
	Max. height difference	m	20	20	20	20	20
Dimensions	Width x Height x Depth	mm	1007x712x426	1007x712x485	1118x864x523	1118x864x523	1118x864x523
Transport dimensions	Width x Height x Depth	mm	1065x800x485	1065x800x485	1180x890x560	1180x890x560	1180x890x560
Weight	Net/gross	kg	58/64	58/64	77/88	77/88	96/110
Operating temperature range (outdoor)	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35
	Domestic hot water	°C	-25~43	-25~43	-25~43	-25~43	-25~43

1. Sound power testing standard: EN12102-1.
2. Sound pressure level measured at a distance of 1m from the unit and (1+H)/2m (where H is the height of the unit) above the floor in a semianechoic chamber.
Conditions of measurement of the sound pressure level:
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 30°C, outlet water temp. 35°C.
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 47°C, outlet water temp. 55°C.

TECHNICAL SPECIFICATIONS SPLIT VERSION

Set			M-Thermal-14B1HB	M-Thermal-16B1HB	M-Thermal-12B3HB	M-Thermal-14B3HB	M-Thermal-16B3HB
Outdoor unit			MHA-V14W/D2N8-B	MHA-V16W/D2N8-B	MHA-V12W/D2RN8-B	MHA-V14W/D2RN8-B	MHA-V16W/D2RN8-B
Hydronic module			HB-A160/CGN8-B	HB-A160/CGN8-B	HB-A160/CGN8-B	HB-A160/CGN8-B	HB-A160/CGN8-B
Power supply		kW/ph/Hz	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
Heating (A7W35)	Capacity	kW	14.50	16.00	12.10	14.50	16.00
	Input power	kW	3.09	3.56	2.44	3.09	3.56
	COP		4.69	4.49	4.96	4.69	4.49
Heating (A7W45)	Capacity	kW	14.20	16.00	12.30	14.20	16.00
	Input power	kW	3.89	4.44	3.24	3.89	4.44
	COP		3.65	3.60	3.80	3.65	3.60
Heating (A7W55)	Capacity	kW	13.80	16.00	12.00	13.80	16.00
	Input power	kW	4.60	5.52	3.87	4.60	5.52
	COP		3.00	2.90	3.10	3.00	2.90
Cooling (A35W18)	Capacity	kW	13.50	14.90	12.00	13.50	14.90
	Input power	kW	3.75	4.38	3.00	3.75	4.38
	EER		3.60	3.40	4.00	3.60	3.40
Cooling (A35W7)	Capacity	kW	12.70	14.00	11.60	12.70	14.00
	Input power	kW	4.98	5.71	4.22	4.98	5.71
	EER		2.55	2.45	2.75	2.55	2.45
Energy efficiency class	Outlet water temperature 35°C		A+++	A+++	A+++	A+++	A+++
	Outlet water temperature 55°C		A++	A++	A++	A++	A++
SCOP	Outlet water temperature 35°C		4.72	4.62	4.81	4.72	4.62
	Outlet water temperature 55°C		3.47	3.41	3.45	3.47	3.41
SEER	Outlet water temperature 7°C		4.86	4.69	4.86	4.83	4.67
	Outlet water temperature 18°C		6.90	6.75	7.04	6.85	6.71
MOP (max. overcurrent protection)			30	30	14	14	14
MCA (min. circuit ampacity)			26	27	10	11	12
Sound power level[1]	Heating (A7W35)	dB(A)	65	68	64	65	68
Sound pressure level[2]		dB(A)	51.8	-	52.0	52.2	-
Outdoor fan	Motor type		DC	DC	DC	DC	DC
	No. of fans		1	1	1	1	1
Refrigerant	Type/Factory charged	-/kg	R32/1.84	R32/1.84	R32/1.84	R32/1.84	R32/1.84
Piping	Liquid / Gas	mm	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9
	Min. piping length	m	2	2	2	2	2
	Max. piping length	m	30	30	30	30	30
	Max. height difference	m	20	20	20	20	20
Dimensions	Width x Height x Depth	mm	1118x864x523	1118x864x523	1118x864x523	1118x864x523	1118x864x523
Transport dimensions	Width x Height x Depth	mm	1180x890x560	1180x890x560	1180x890x560	1180x890x560	1180x890x560
Weight	Net/gross	kg	96/110	96/110	112/125	112/125	112/125
Operating temperature range (outdoor)	Cooling	°C	-5~43	-5~43	-5~43	-5~43	-5~43
	Heating	°C	-25~35	-25~35	-25~35	-25~35	-25~35
	Domestic hot water	°C	-25~43	-25~43	-25~43	-25~43	-25~43

1. Sound power testing standard: EN12102-1.
2. Sound pressure level measured at a distance of 1m from the unit and (1+H)/2m (where H is the height of the unit) above the floor in a semianechoic chamber.
Conditions of measurement of the sound pressure level:
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 30°C, outlet water temp. 35°C.
Outdoor air temperature 7°CDB, 85% R.H.; inlet water temp. 47°C, outlet water temp. 55°C.

TECHNICAL SPECIFICATIONS SPLIT VERSION – HYDRAULIC MODULE

Hydraulic module			HB-A60/CGN8-B	HB-A100/CGN8-B	HB-A160/CGN8-B
Compatible outdoor unit			MHA-V4W/D2N8-B MHA-V6W/D2N8-B	MHA-V8W/D2N8-B MHA-V10W/D2N8-B	MHA-V12W/D2(R)N8-B MHA-V14W/D2(R)N8-B MHA-V16W/D2(R)N8-B
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Function			heating and cooling		
Outlet water temperature range	Cooling	°C	5~25	5~25	5~25
	Heating	°C	12~65	12~65	12~65
	DHW (tank)	°C	40~60	40~60	40~60
Sound power level		dB(A)	38	42	43
Dimensions	Width x Height x Depth	mm	420x790x270	420x790x270	420x790x270
Weight	Net/gross	kg	37/43	37/43	39/45
Water circuit	Pipe connection	inch	R1"	R1"	R1"
	Safety valve pressure	MPa	0,3	0,3	0,3
	Drain pipe connection	mm	Ø25	Ø25	Ø25
	Expansion tank volume	L	8	8	8
	Expansion tank - max. water pressure	MPa	0,3	0,3	0,3
	Expansion tank pre-charged pressure	MPa	0,1	0,1	0,1
	Water-side heat exchanger		plate	plate	plate
	Water pump head		9	9	9
Refrigerant circuit	Liquid/gas	mm	Ø6,35/Ø15,9	Ø6,35/Ø15,9	Ø9,52/Ø15,9



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NEW



INDOOR UNITS

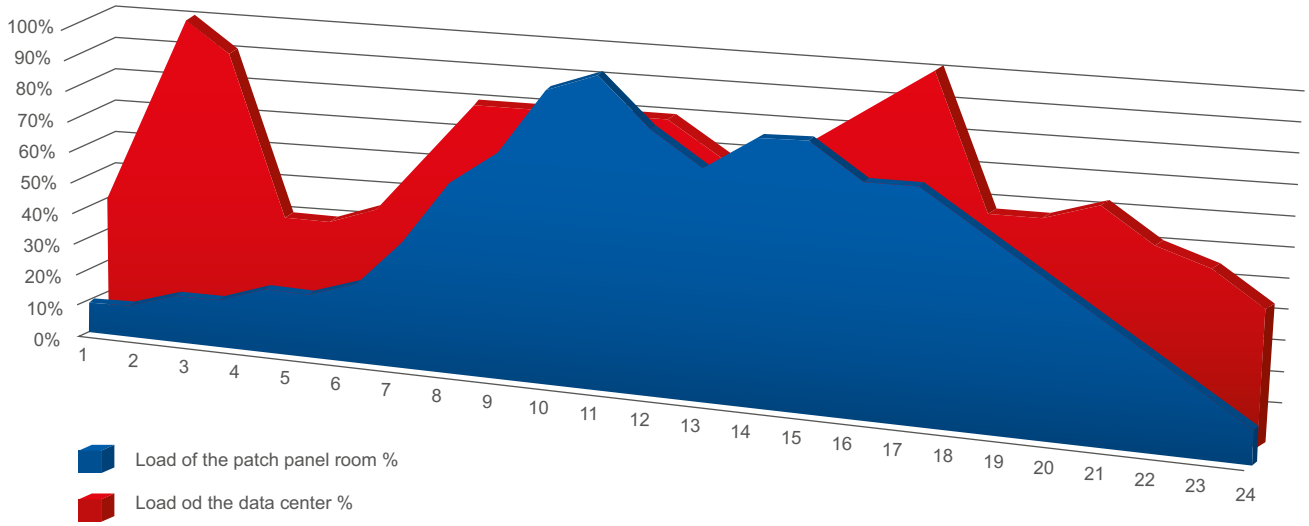
UNIQUE FEATURES:

TECHNICAL ROOM THERMAL LOAD

Thermal load of the technical rooms is strictly related to alternating workload of IT systems. The following diagram shows alternating load of the technical rooms with a division into:

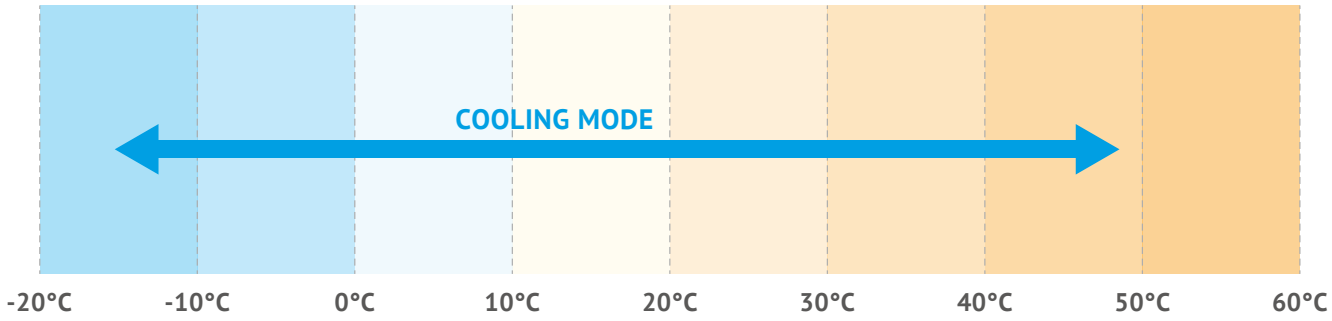
- switchers - spaces like communication nodes with IT hardware (with low computing power);
- data center - server room, where the highest thermal load occurs during IT systems backup process at night, as well as in others, during startup and closing of IT systems by each, individual system user.

Thermal load of a technical room related to IT systems operation



INFORMATION ABOUT **OPERATION STATUS**

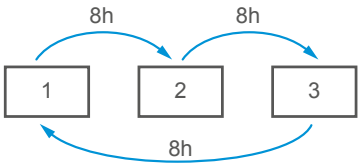
For the technical rooms Midea offers units that provide stable operation in extreme outdoor air temperatures from -15˚C to +48˚C.



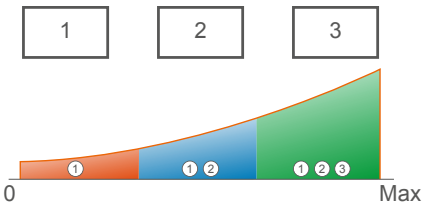
ROTARY AND CASCADE OPERATION CONTROLLER

In order to ensure safety and operation continuity in technical spaces, the offer includes a dedicated controller (M-Techcontrol) which supervises operation of multiple units. The controller is equipped with the following functions:

Rotary operation



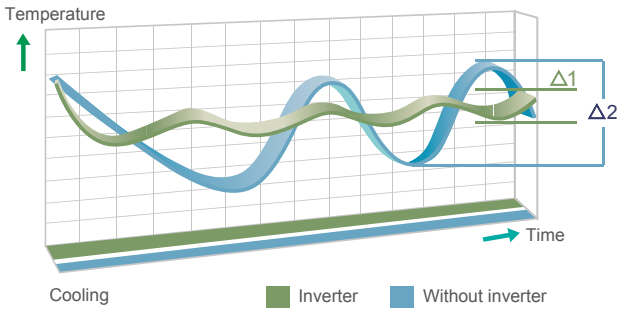
Cascade



FLASH COOLING DOWN

By benefiting from DC inverter controlled compressor, system may achieve the full load n short time and therefore reduce the cooling down time, to ensure instant comfort. Lower temperature fluctuations assure correct operation and extend service life of the cooled down electronic devices.

Room temperature fluctuations



NEW





INDOOR UNIT

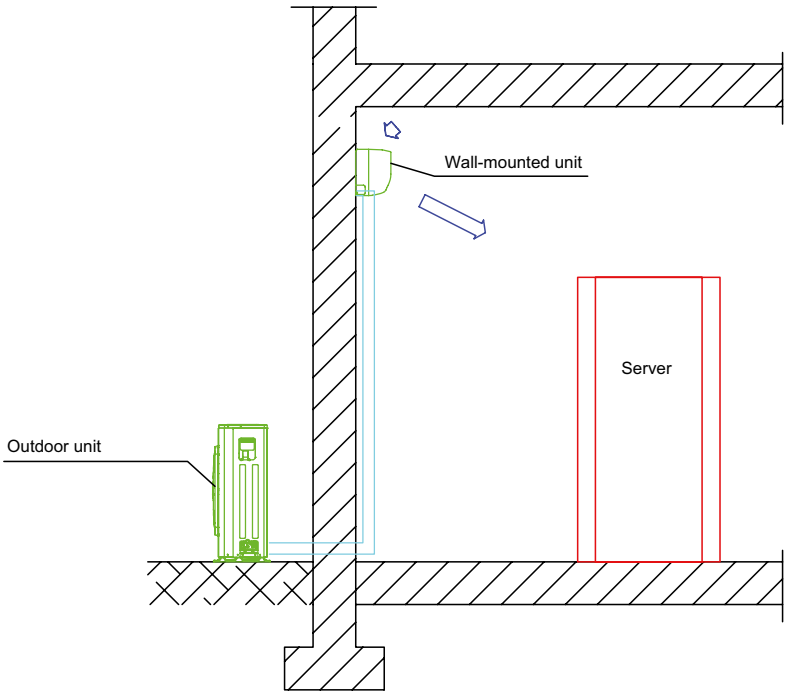
OUTDOOR UNIT

UNIQUE FEATURES:

INSTALLATION METHOD

Technical rooms like communication nodes are very often situated on a small surface area, with limited capabilities of air-conditioning installation. A solution for this typee of rooms is to install the split typee wall-mounted unit, offering small installation space, long refrigerant piping and being to ready for rotation, cascade and backup operation.

Example diagram:



TECHNICAL SPECIFICATIONS

Set				KMTIR-27N1-B1
Indoor unit				M2TIR-27HFN1-QRD0
Outdoor unit				MOTS-27HFN1-QRD0
Power supply (V/phase/Hz)				220-240/1/50
Cooling	Rated capacity*1		kW	9.0
	Design capacity*2		kW	7.3
	SHR			0.73
	Input power	Rated	kW	2.14
	EER			4.19
	ESEER			7.4
Max. input current			A	10
Indoor unit	Input current	Rated	kW	0.082
	Dimensions (width x depth x height)		mm	1194x343x262
	Weight		kg	17.0
	Air-flow rate		m^3/h	867/1067/1421
	Sound pressure level		dB(A)	38/43/48
Outdoor unit	Dimensions (width x depth x height)		mm	1075x396x966
	Weight		kg	75.5
	Air-flow rate		m^3/h	5499
	Sound pressure level		dB(A)	54
	Sound power level		dB(A)	67
Refrigerant piping	Diameter	Liquid/Gas	mm	Ø9.53 / Ø15.9
	Max. length / max. height difference		m	45/20
Refrigerant		Type x charge	kg	R410A/2.80
Ambient temp. range		Cooling	°C	-15~48*

Capacity is based on the following conditions:
1. Parameters specified for the conditions: indoor temperature 27°DB/19°WB; outdoor temperature 35°DB/24°WB;.
2. Parameters specified for the conditions: indoor temperature 23°DB/16°WB; outdoor temperature 35°DB/24°WB;
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
* Operating range -20~48°C after consulting our Sales and Technical Adviser.

NEW





INDOOR UNIT

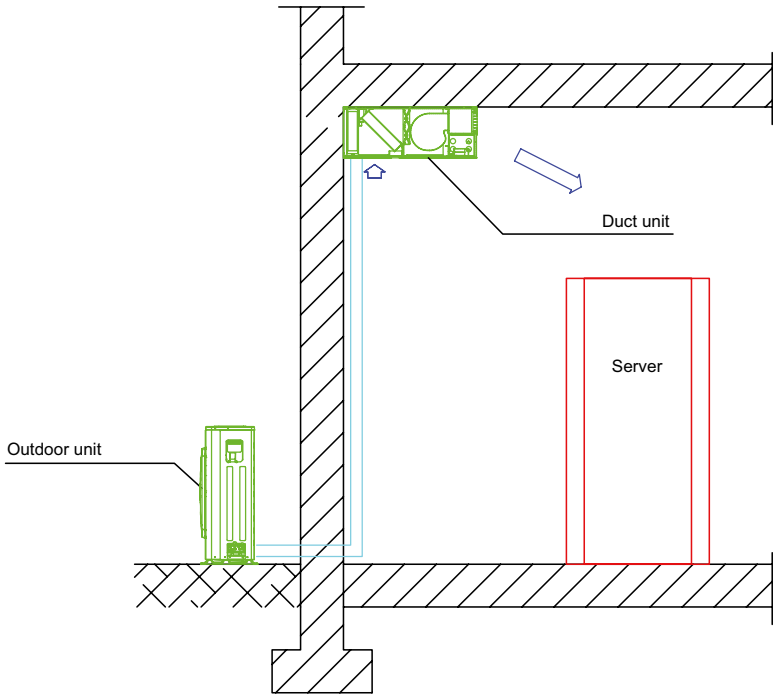
OUTDOOR UNIT

UNIQUE FEATURES:

INSTALLATION METHOD

The solution is dedicated to rooms with a demand for high intensity of technical devices cooling down. The following solution with a comparable cooling capacity, circulates over two times more of treated air through the indoor unit, in the same time.

Example diagram:

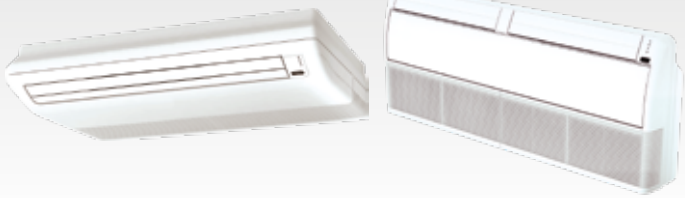


TECHNICAL SPECIFICATIONS

Set				KMTID-35N1-B1	KMTID-41N1-B1	KMTID-41N1-B3
Indoor unit				M2TID-35HFN1-QRD0	M2TID-41HFN1-QRD0	M2TID-41HFN1-QRD0
Outdoor unit				MOTS-35HFN1-QRD0	MOTS-41HFN1-QRD0	MOTS-41HFN1-RRD0
Power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	380-400/3/50
Cooling	Rated capacity*1		kW	11.2	14.0	14.0
	Design capacity*2		kW	9.1	11.3	11.3
	SHR			0.78	0.76	0.76
	Input power	Rated	kW	2.9	3.43	3.43
	EER			3.86	4.08	4.08
	ESEER			7.4	7.1	7.1
Max. input current			A	10	14	14
Indoor unit	Input current	Rated	kW	0.200	0.16	0.16
	Dimensions (width x depth x height)		mm	1230x270x775	1290x300x865	1290x300x865
	Weight		kg	37.0	46.5	46.5
	Air-flow rate		m^3/h	1080/1290/1500	1360/1660/1960	1360/1660/1960
	Available static pressure		Pa	20(10~100)	40(30~150)	40(30~150)
	Sound pressure level		dB(A)	37/43/47	38/43/47	38/43/47
Outdoor unit	Dimensions (width x depth x height)		mm	1075x396x966	900x320x1327	900x320x1327
	Weight		kg	75.5	95	95
	Air-flow rate		m^3/h	5531	6000	6000
	Sound pressure level		dB(A)	54	57	57
	Sound power level		dB(A)	68	70	70
Refrigerant piping	Diameter	Liquid/Gas	mm	9.53/15/9	9.53/15.9	9.53/15.9
	Max. length / max. height difference		m	45/20	60/20	60/20
Refrigerant		Type x charge	kg	R410A/2.95	R410Ax3.30	R410Ax3.30
Ambient temp. range		Cooling	°C	-15~48*	-15~48*	-15~48*

Capacity is based on the following conditions:
1. Parameters specified for the conditions: indoor temperature 27°DB/19°WB; outdoor temperature 35°DB/24°WB;.
2. Parameters specified for the conditions: indoor temperature 23°DB/16°WB; outdoor temperature 35°DB/24°WB;
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
* Operating range -20~48°C after consulting our Sales and Technical Adviser.

NEW



INDOOR UNIT



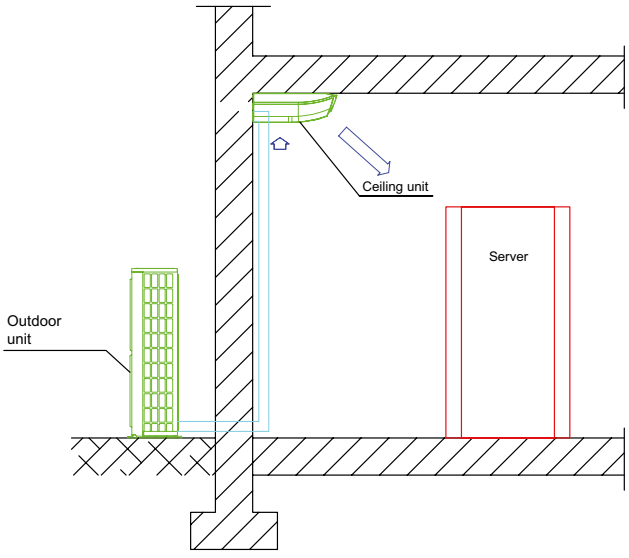
OUTDOOR UNIT

UNIQUE FEATURES:

INSTALLATION METHOD

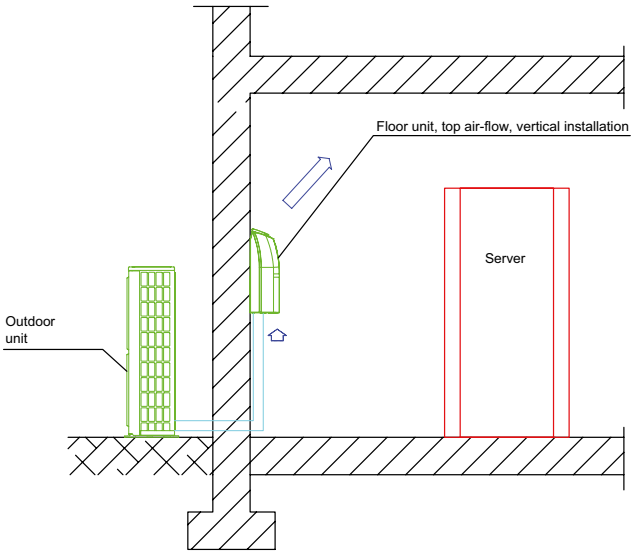
The solution is dedicated to rooms where the floor clearance area allows to install an air-conditioner above it. The air-conditioners should not be installed above any electric appliances, because there is a risk of uncontrolled condensate leakage.

Under ceiling installation example:



With the use of vertically installed wall typee units, with the cold air stream directed upwards, it is possible to obtain a flexible solution dedicated to small rooms, where it is important to use any cm^2 of server space. The air-conditioner is installed on a wall in a corridor, approximately 1 m above the floor.

Above floor installation example:



TECHNICAL SPECIFICATIONS

Set				KMTIPP-27N1-B1	KMTIPP-35N1-B1	KMTIPP-41N1-B1	KMTIPP-41N1-B3
Indoor unit				M2TIPP-27HFN1-QRD0	M2TIPP-35HFN1-QRD0	M2TIPP-41HFN1-QRD0	M2TIPP-41HFN1-QRD0
Outdoor unit				MOTS-27HFN1-QRD0	MOTS-35HFN1-QRD0	MOTS-41HFN1-QRD0	MOTS-41HFN1-RRD0
Power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	380-400/3/50
Cooling	Rated capacity*1		kW	9.0	11.2	14.0	14.0
	Design capacity*2		kW	7.3	9.1	11.3	11.3
	SHR			0.73	0.72	0.7	0.7
	Input power	Rated	kW	2.18	2.83	3.4	3.4
	EER			4.12	3.96	4.12	4.12
	ESEER			7.4	7.4	7.1	7.1
Max. input current			A	10	10	14	14
Indoor unit	Input current	Rated	kW	0.13	0.13	0.18	0.18
	Dimensions (width x depth x height)		mm	1280x660x203	1670x680x224	1670x680x244	1670x680x244
	Weight		kg	35	48	48	48
	Air-flow rate		m^3/h	1050/1170/1280	1580/1700/1890	1580/1700/1890	1580/1700/1890
	Sound pressure level		dB(A)	40/43/45	42/45/47	42/45/47	42/45/47
Outdoor unit	Dimensions (width x depth x height)		mm	1075x396x966	1075x396x966	900x320x1327	900x320x1327
	Weight		kg	75.5	75.5	95	95
	Air-flow rate		m^3/h	5499	5531	6000	6000
	Sound pressure level		dB(A)	54	54	57	57
	Sound power level		dB(A)	67	68	70	70
Refrigerant piping	Diameter	Liquid/Gas	mm	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9
	Max. length / max. height difference		m	45/20	45/20	60/20	60/20
Refrigerant		Type x charge	kg	R410A/2.80	R410A/2.95	R410Ax3.30	R410Ax3.30
Ambient temp. range		Cooling	°C	-15~48*	-15~48*	-15~48*	-15~48*

Capacity is based on the following conditions:
1. Parameters specified for the conditions: indoor temperature 27°DB/19°WB; outdoor temperature 35°DB/24°WB;.
2. Parameters specified for the conditions: indoor temperature 23°DB/16°WB; outdoor temperature 35°DB/24°WB;
Piping length: length of connected pipes is 7.5 m. the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
* Operating range -20~48°C after consulting our Sales and Technical Adviser.

NEW



INDOOR UNIT



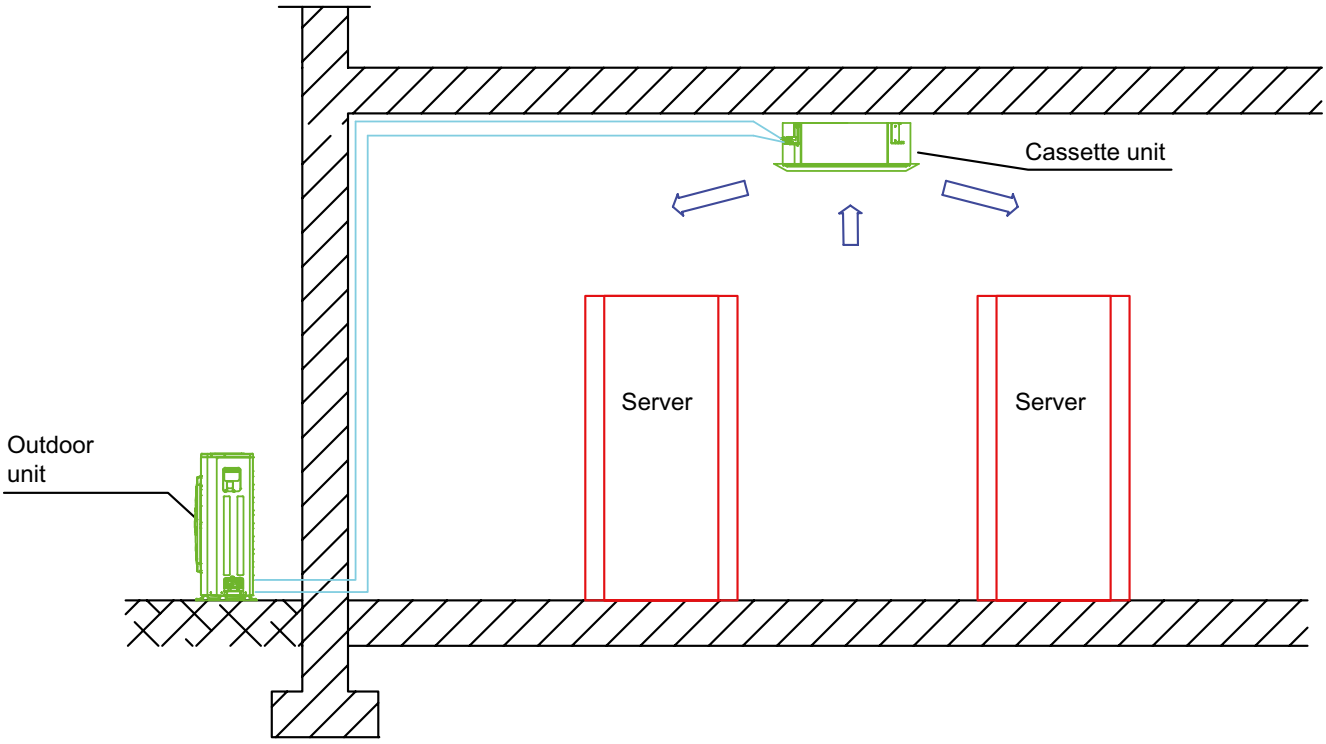
OUTDOOR UNIT

UNIQUE FEATURES:

INSTALLATION METHOD

Cassette typee units intake warm air from below and discharge cool air on sides. This air-flow manner allows to install the unit above the warm corridor and distribute the cool air into the cold corridors, from where the server cabinets intake air for cooling down servers.

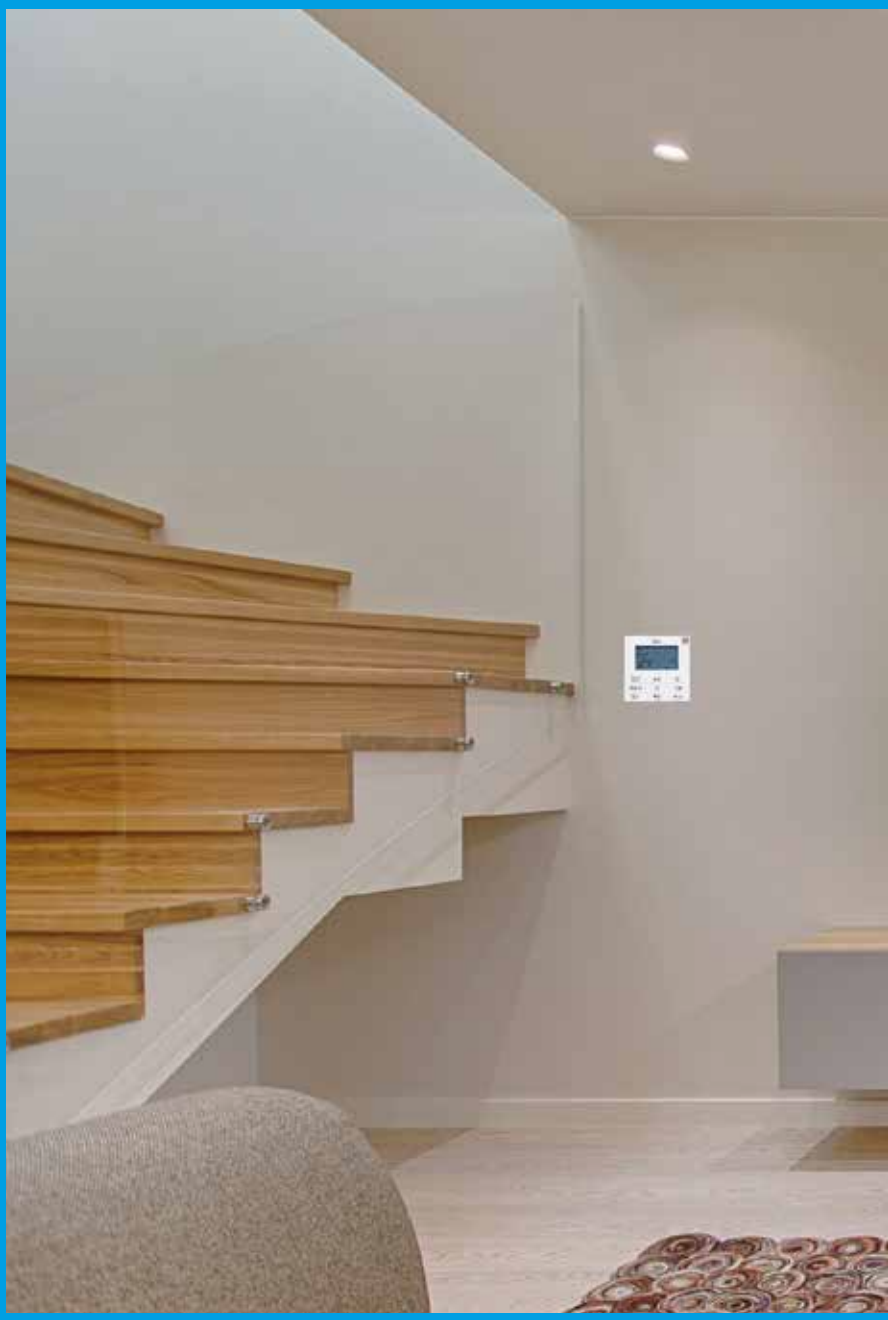
Example diagram:



TECHNICAL SPECIFICATIONS

Set				KMTIQ-27N1-B1	KMTIQ-35N1-B1	KMTIQ-41N1-B1	KMTIQ-41N1-B3
Indoor unit				M2TIQ-27HFN1-QRD0	M2TIQ-35HFN1-QRD0	M2TIQ-41HFN1-QRD0	M2TIQ-41HFN1-QRD0
Outdoor unit				MOTS-27HFN1-QRD0	MOTS-35HFN1-QRD0	MOTS-41HFN1-QRD0	MOTS-41HFN1-RRD0
Panel				P-MTIQ4-01E	P-MTIQ4-01E	P-MTIQ4-01E	P-MTIQ4-01E
Power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	380-400/3/50
Cooling	Rated capacity*1		kW	9.0	11.2	14.0	14.0
	Design capacity*2		kW	7.3	9.1	11.3	11.3
	SHR			0.73	0.72	0.7	0.7
	Input power	Rated	kW	2.18	2.83	3.4	3.4
	EER			4.12	3.96	4.12	4.12
	ESEER			7.4	7.4	7.1	7.1
Max. input current			A	10	10	14	14
Indoor unit	Input current	Rated	kW	0.12	0.12	0.13	0.18
	Dimensions (width x depth x height)		mm	904x840x300	904x840x300	904x840x300	904x840x300
	Weight		kg	28.4	28	28	28
	Air-flow rate		m^3/h	1034/1239/1596	1034/1239/1596	1224/1426/1727	1224/1426/1727
	Sound pressure level		dB(A)	36/41/47	36/41/47	35/45/50	35/45/50
Panel	Dimensions (width x depth x height)		mm	950x950x54.5	950x950x54.5	950x950x54.5	950x950x54.5
	Weight		kg	5	5	5	5
Outdoor unit	Dimensions (width x depth x height)		mm	1075x396x966	1075x396x966	900x320x1327	900x320x1327
	Weight		kg	75.5	75.5	95	95
	Air-flow rate		m^3/h	5499	5531	6000	6000
	Sound pressure level		dB(A)	54	54	57	57
	Sound power level		dB(A)	67	68	70	70
Refrigerant piping	Diameter	Liquid/Gas	mm	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9	Ø9.53 / Ø15.9
	Max. length / max. height difference		m	45/20	45/20	60/20	60/20
Refrigerant		Type x charge	kg	R410A/2.80	R410A/2.95	R410Ax3.30	R410Ax3.30
Ambient temp. range		Cooling	°C	-15~48*	-15~48*	-15~48*	-15~48*

Capacity is based on the following conditions:
1. Parameters specified for the conditions: indoor temperature 27°DB/19°WB; outdoor temperature 35°DB/24°WB;.
2. Parameters specified for the conditions: indoor temperature 23°DB/16°WB; outdoor temperature 35°DB/24°WB;
Piping length: length of connected pipes is 7.5 m, the height difference is 0.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
* Operating range -20~48°C after consulting our Sales and Technical Adviser.





Midea CONTROL SYSTEM



RG58



RG10



RG70



RM12

FUNCTIONS

Model	RG58F1	RG58N2	RG70C	RG70E3	RG10A	RG10A1	RM12
On / Off	●	●	●	●	●	●	●
Operation mode setting	●	●	●	●	●	●	●
Air-flow speed	●	●	●	●	●	●	●
Temperature setting	●	●	●	●	●	●	●
Vertical swing	●	●	●	●	●	●	●
Horizontal swing	●	●	●	●	●	●	●
Selfcleaning	●	●	●	●	●	●	●
Enery save ECO mode	●	●	●	●	●	●	●
Key lock	●	–	–	–	●	●	●
Comfort 23°C	–	–	●	–	–	–	–
8°C heating	●	●	●	●	●	●	–
Gear	●	●	●	●	●	●	–
Follow Me function	●	●	●	●	●	●	●
Super ionizer	–	–	●	●	–	–	–
Backlight	●	●	●	●	●	●	●
Backlight / sound on/off	–	●	●	●	●	●	●
Room temperature	●	●	–	–	●	●	●
Breeze/ Breeze away button	–	●	–	–	–	●	–
Breeze away/fresh button	–	–	–	–	●	●	–
NIght mode	●	●	●	●	●	●	●
Turbo/Boost mode	●	●	●	●	●	●	–
Auto mode	●	●	●	●	●	●	●
Quiet operation mode	●	●	●	●	●	●	●
Timer / time programming	●	●	●	●	●	●	●
Dimensins (height x width x depth) [mm]	180x50x20	180x50x20	135x55x18	135x55x18	193x48x20	193x48x20	170x45x20
Power supply	3,0V(AAA/ LR03x2)	3,0V(AAA/ LR03x2)	3,0V(AAA/ LR03x2)	3,0V(AAA/ LR03x2)	3,0V(AAA/ LR03x2)	3,0V(AAA/ LR03x2)	3,0V(AAA/ LR03x2)

● Function available
– Function unavailable



KJR-86C



KJR-29B/KJR-90C

Controllers dedicated for ceiling-floor and compact cassette units.

FUNCTIONS

Model	KJR-86C	KJR-29B	KJR-90C*
Max no. of indoor units	1	1	1
On / Off	●	●	●
Operation mode setting	●	●	●
Air-flow speed	●	●	●
Temperature setting	●	●	●
Vertical swing	–	–	–
Horizontal swing	–	●	●
Key lock	–	●	●
Operation mode lock	–	●	●
26°C button	●	–	–
Remote signal receiver	–	●	●
Filter cleaning (reminder)	–	●	●
Follow Me function	–	●	●
Backlight	●	●	●
Current time	–	●	●
Error codes	–	–	–
Room temperature	●	–	–
Timer	–	●	●
Weekly timer	–	–	–
Address setting	–	●	●
Dimensins (height x width x depth) [mm]	86 × 86 × 18	120 × 120 × 20	86 × 86 × 16,5
Power supply	DC 5V	DC 5V	DC 5V

● Function available
– Function unavailable
* Available until existing stocks are exhausted



KJR-120C1



KJR-120G2

Controllers for duct typee units in Split version (KJR-120G2/KJR-120C1) and for cassette units KJR-120G2.

FUNCTIONS

Model	KJR 120C1	KJR 120G2
Max no. of indoor units	1	1
On / Off	●	●
Operation mode setting	●	●
Air-flow speed	●	●
Temperature setting	●	●
Vertical swing	●	●
Horizontal swing	●	●
Key lock	●	●
Operation mode lock	–	–
26°C button	–	–
Remote signal receiver	–	–
Filter cleaning (reminder)	●	–
Follow Me function	–	●
Backlight	●	●
Current time	●	●
Error codes	●	●
Room temperature	●	●
Timer	●	●
Weekly timer	●	●
Address setting	–	–
Dimensins (height x width x depth) [mm]	120x122x18,5	120x123x18,5
Power supply	DC 5V/DC 12V	DC 5V/DC 12V

● Function available
– Function unavailable



WDC-86E/KD



WDC-120G/WK

Controllers dedicated for Multi+ and Multi MAX series.

FUNCTIONS

Model	WDC-86E/KD	WDC-120G/WK
On / Off	●	●
Operation mode setting	●	●
Temperature setting	(0.5°C or 1°C)	(0.5°C or 1°C)
Double set point	●	●
7 fan speeds	●	●
Swing	●	●
5 steps of swing	●	●
Address setting	●	●
Follow Me	●	●
ECO	●	●
Room temperature	●	●
°F / °C	●	●
Key lock	–	●
Backlight	●	●
Daily timer	●	●
Weekly timer	–	●
Auto restart	●	●
2 levels of authorisation	–	●
2-way communication	●	●
Group control	–	●
Main and auxiliary settings	●	●
Turning off the display	●	●
Night operation mode	●	●
Remote signal receiver	●	●
Filter cleaning (reminder)	●	●
Setting extension function	–	●
Summer time	–	●
Current time	–	●
Error codes	●	●
System parameters reading	●	●
System configuration check	●	●
Dimensins (height x width x depth) [mm]	86x86x18	120x120x20
Power supply	18V DC	18V DC

● Function available
– Function unavailable



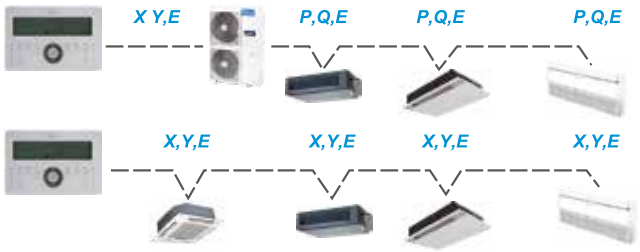
CCM180A



CCM30

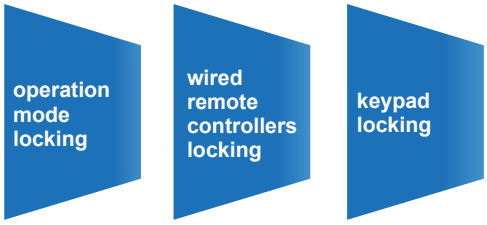
CENTRAL CONTROL

Multifunctional controller, which can control up to 64 indoor units. Transmission line length up to 1200 m. Remote controller can be directly connected to the master outdoor unit, what significantly simplifies the wiring. CCM30 central controller can be connected in series with indoor units only in case of systems with the first generation indoor units, equipped with the XYE port.



3 TYPES OF LOCK

Facilitates management of the indoor units. Depending on the needs, user can disable individual wireless remote controllers, lock operation mode (cooling, heating) or controller's keyboard.



WEEKLY TIMER

The built-in timer provides setting of the operation schedule during the week. 4 daily operation programmes can be specified for each indoor unit, including desired operation mode and room temperature.





FUNCTIONS

Model	CCM180A	CCM30
Max no. of indoor units	64	64
On / Off	●	●
Operation mode setting	●	●
Air-flow speed	●	●
Temperature setting	(0.5°C increase)	●
Vertical swing	●	●
Group setting	●	●
Filter cleaning (reminder)	●	●
Key lock	●	●
Backlight	●	●
Current time	●	●
Error codes	●	●
Address	●	●
Timer	●	●
Daily timer	●	●
Weekly timer	●	–
Emergency on/off	●	●
Dimensins (height x width x depth) [mm]	182x123x34	180 × 122 × 78 or 180 × 122 × 68
Power supply	12V DC	198-242V(50/60Hz)

● Function available
– Function unavailable



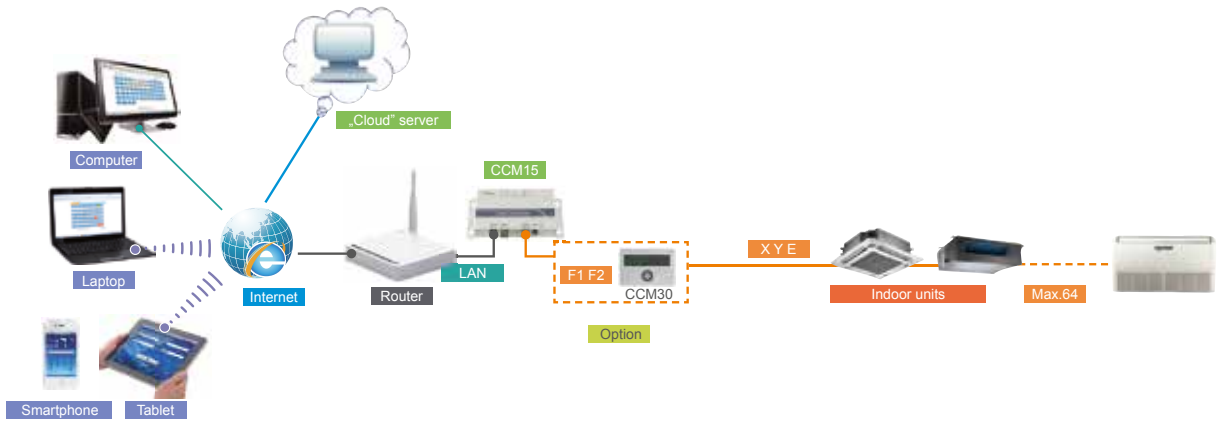
CCM15

DIVERSITY OF APPLICATIONS

- implements data conversion between TCP/IP and 485 protocols
- internet function provides access to the VRF system through the website
- user can monitor and send inquiries to air-conditioners through the LAN and WAN network
- TCP/IP port available for MIDEA VRF system, providing access to WEB/HTTP/TCP/IP protocols
- possibility to control air-conditioning systems via computer, smartphone, tablet or other smart terminal equipment.

CONNECTION EXAMPLE

- direct connection with the indoor unit through the XYE port
- max. connectable 64 indoor units
- CCM30 is optional and can be connected with CCM15 through F1, F2 and E ports
- the system includes air-conditioning, CCM15 data converter, "cloud" server and terminal control equipment



SIMPLE CONTROL **INTERFACE**

- software/"cloud" server control (internet access)
- user friendly "click and go" interface
- individual and group control available
- simplified control interface handled by user
- colour indicators and icons facilitate recognition of the unit's state
- possibility to display the full screen and adjust temperature by sliding the screen with finger



WIRED REMOTE **CONTROLLER LOCK**

- weekly timer function for tablets
- many blocks, each day for a single unit or group
- automatic control of the system on/off, operation mode, temperature setting as well as control according to the current time schedule







INTERNET FUNCTIONS

- monitoring and control of a single unit or group
- weekly timer settings: possible to set many blocks, each day for a single unit or group
- user group control: with use of a single ID, user can manage hundreds of CCM15 converters after selecting
- "As group user" button on the login page (group control)
- error history: error history function simplifies system's service and management

SMART CONTROL

- remote air-conditioning control can be provided via smartphone or tablet
- possibility to monitor air-conditioner's operation state in any place and time as well as in advance
- the ability to remotely switch off the air-conditioner in order to save energy



CCM08



CCM18



LONGW64



KNX1B/16/64

COMMUNICATION

4 BMS protocols available, that enable communication with the air-conditioning system: ModBus, BACnet, LonWorks, KNX.

Modbus LONWORKS BACnet KNX

FLEXIBILITY OF APPLICATION

BMS gates enable creating system networks, that include up to 1024 indoor and 128 outdoor units.



OPERATION MONITORING

Real-time control of the system operation parameters. Provides data analysis, reduction of energy consumption and costs as well as prompt detection of system abnormalities.

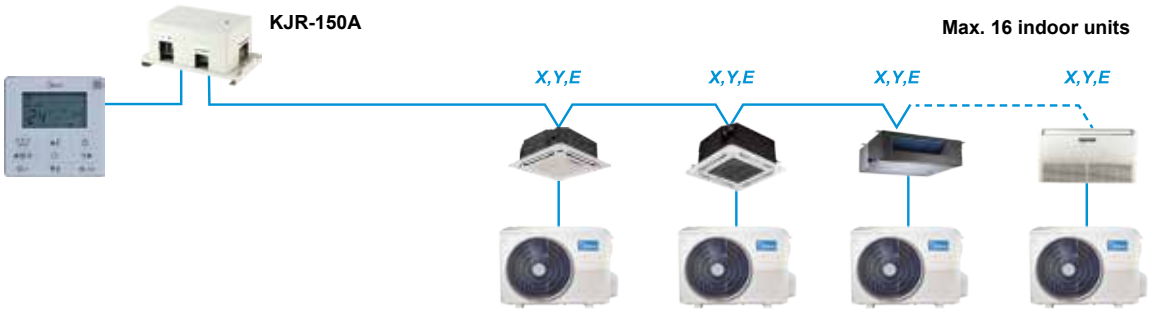


KJR-150A

SIMPLE DESIGN

It is possible to connect 16 indoor units to the KJR-150A controller, using XYE terminals. The controller enables simultaneous control of all indoor units with one device.

SYSTEM CONNECTION DIAGRAM





NIM09

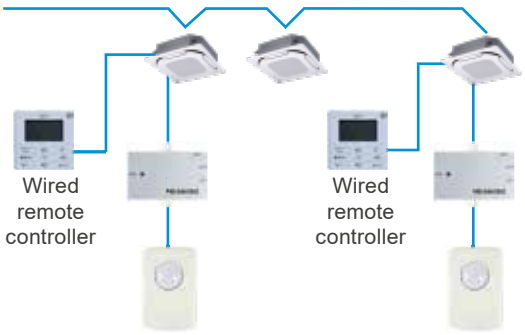
DIVERSITY OF APPLICATIONS

- automatically adjusts the room temperature
- automatically extends the shutting down time, avoiding frequent ON/OFF
- sophisticated appearance makes it suitable for different interiors

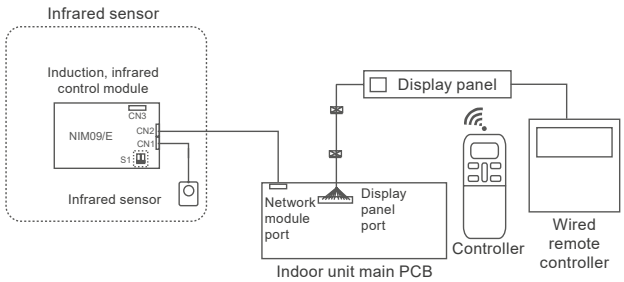
FOUR OPERATION MODE AVAILABLE

Indoor unit can be turned off after 30 or 60 minutes from the moment the user has left the room with the automatic operation recovery, in case of sensing human movement or with the necessity of turning the unit on by the user.

INSTALLATION EXAMPLE



NIM9 cooperates with the wired remote controller



Electric installation



DR.SMART

DIVERSITY OF APPLICATIONS

DR. Smart diagnostic interface provides simple and quick readout, diagnostics and repair of unit operating parameters.
DR. Smart enables also manual adjustment of individual outdoor unit's components.
It is compatible with the following series: Home, Multi and Business.

DIAGNOSTIC OPTIONS

- Current compressor operation frequency
- Target compressor operation frequency
- Indoor unit air outlet temperature
- Indoor unit heat exchanger temperature
- Outdoor unit heat exchanger temperature
- Outdoor temperature
- Discharge temperature
- Outdoor unit gas return temperature
- Unit running current (AC)
- Outdoor unit DC supply voltage (IPM module input)
- The highest value of the AC supply voltage (power supply to the bridge rectifier)
- Temperature setting
- Outdoor unit load
- Indoor unit error
- Outdoor unit error
- Outdoor unit fan speed
- EEV opening (electronic expansion valve)
- Operation mode
- Indoor unit operation mode
- Outdoor unit error status
- Compressor error status

FUNCTIONS

Model	DR. Smart
Readout of system running parameters	●
Manual compressor control	●
Manual fan control	●
Manual electronic expansion valve control	●
Expanded error code lists	●
Simple connection	●

● Available function





NEW

Midea

OUTDOOR UNITS FOR AIR-HANDLING UNITS

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com



CONTROL MODULE AHU KA

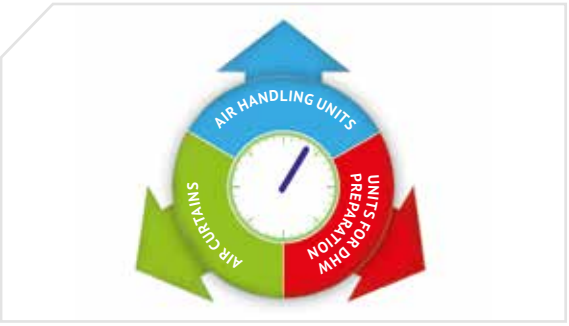


CONTROL MODULE AHU KZ-N1

UNIQUE FEATURES:

1 CONNECTION OF EXTERNAL DEVICES

AHU-AIR BOX module enables connection of inverter outdoor units with heat exchangers supplied with R32 or R410A refrigerant, installed in other manufacturers' units. This refers to coolers/heaters of the air-handling units, air curtains, DHW equipment.



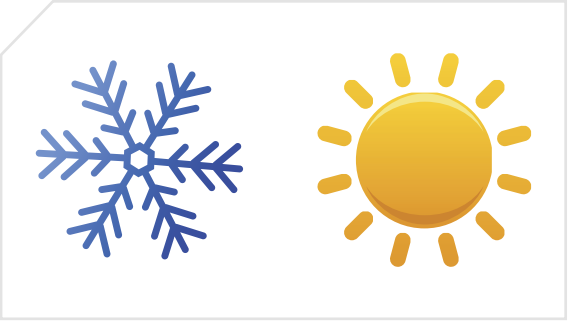
2 TEMPERATURE CONTROL

In the automatic capacity selection mode, outdoor unit operation is controlled on the basis of AHU (air curtain) intake temperature.



3 COOLING / HEATING

This module enable to switch over outdoor unit operation mode (cooling/heating) - providing a possibility to use one heat exchanger for both operation modes.

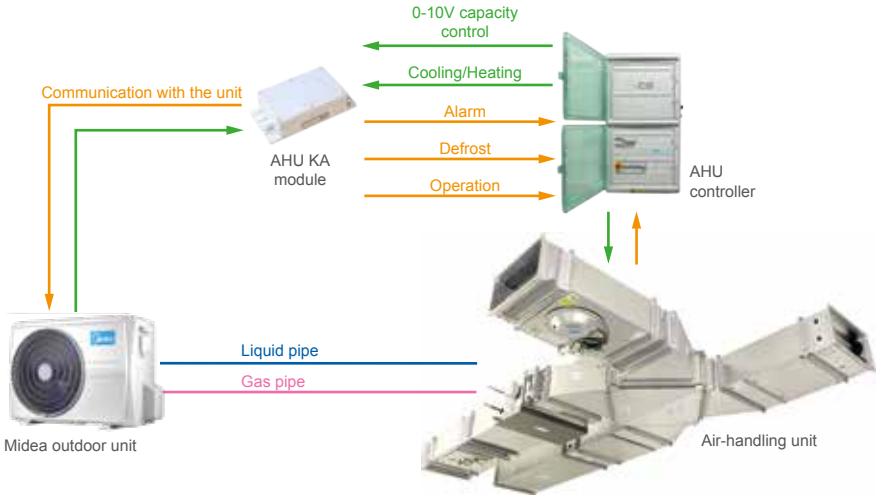


INFORMATION ON OPERATION STATUS

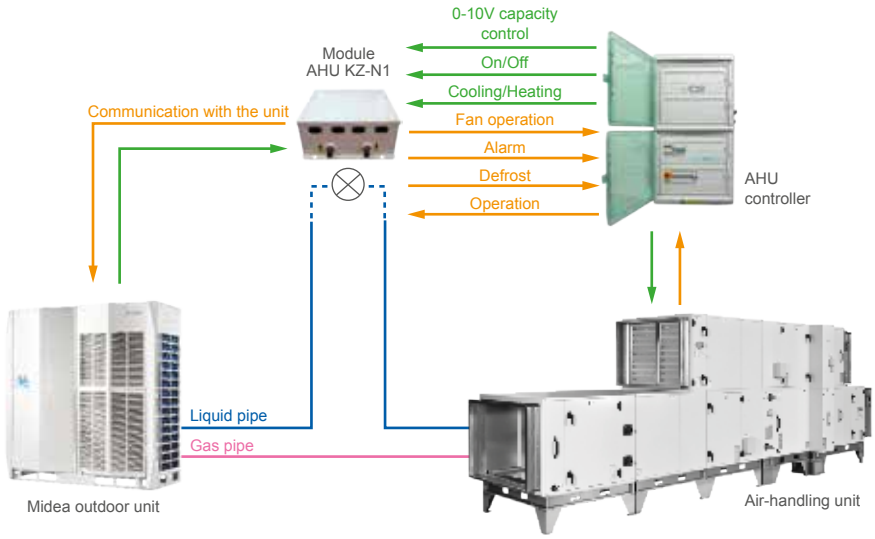
It is possible to deliver the most popular 0-10[V] analogue signal to the unit. The signal allows to directly control outdoor unit capacity.
Output signal:
- failure
- defrost

Input signals:
- cooling
- heating
- unit capacity control

CONNECTION DIAGRAM FOR THE OUTDOOR UNIT FROM 2,5 KW TO 16 KW
(ELECTRONIC EXPANSION VALVE – FITTED IN THE UNIT)



CONNECTION DIAGRAM FOR THE OUTDOOR UNIT ABOVE 16 KW
(ELECTRONIC EXPANSION VALVE – FITTED ON SITE)



TECHNICAL SPECIFICATIONS

Set			AHU-09-B1MB	AHU-12-B1MB	AHU-18-B1MB	AHU-24-B1MB
Outdoor unit			MBT-09N8D6-O	MBT-12N8D6-O	MB-18N8D0-O	MB-24N8D0-O
Control module			KA8140	KA8140	KA8140	KA8140
Branch pipe			-	-	-	-
Outdoor unit power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Control module power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated	kW	2.5	3.4	5.4	7.0
	Min-Max	kW	1.0~3.2	1.4~4.3	2.0~6.2	2.1~8.4
	Input power	kW	0.67	0.92	1.50	2.21
Heating	Rated	kW	2.9	3.8	5.4	7.7
	Min-Max	kW	0.8~3.4	1.1~4.4	1.4~7.0	1.6~9.4
	Input power	kW	0.65	0.95	1.42	2.03
Fuse		A	10	10	16	16
Refrigerant piping	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø15.9
Refrigerant	Type		R32	R32	R32	R32
	Charge	kg	0.65	0.65	1.25	1.60
Dimensions (width x depth x height)		mm	800x333x554	800x333x554	800x333x554	845x363x702
Weight		kg	28.5	28.5	36.9	49.7
Ambient temp. range	Cooling	°C	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-25~24	-25~24	-25~24	-25~24

			NEW			
Set			AHU-09-C1AG	AHU-12-C1AG	AHU-18-C1AG	AHU-24-C1AG
Outdoor unit			X2-09N8D1-O	X2-12N8D1-O	X3-18N8D0-O	X4-24N8D0-O
Control module			KA8140	KA8140	KA8140	KA8140
Branch pipe			-	-	-	-
Outdoor unit power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Control module power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated	kW	2.6	3.5	5.3	7.0
	Min-Max	kW	1.02-3.22	1.38-4.31	3.39-5.9	2.11-8.21
	Input power	kW	0.66	1.00	1.55	2.4
Heating	Rated	kW	2.9	3.8	5.6	7.3
	Min-Max	kW	0.82-3.37	1.07-4.38	3.08-5.85	1.55-8.21
	Input power	kW	0.67	0.97	1.75	2.13
Fuse		A	10	10	16	16
Refrigerant piping	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø9.52
	Gas	mm	Ø9.52	Ø9.52	Ø12.7	Ø15.9
Refrigerant	Type		R32	R32	R32	R32
	Charge	kg	0.62	0.62	1.1	1.45
Dimensions (width x depth x height)		mm	765x303x555	765x303x555	874x330x554	955x342x673
Weight		kg	26.2	26.4	33.5	43.9
Ambient temp. range	Cooling	°C	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-15~30	-15~30	-15~30	-15~30

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m. the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

TECHNICAL SPECIFICATIONS

Set			AHU-24-A1	AHU-36-A1	AHU-36-A3	AHU-42-A3	AHU-48-A3	AHU-55-A3
Outdoor unit			MOU-24FN8-QD0	MOU-36FN8-QD0	MOU-36FN8-RD0	MOU-42FN8-RD0	MOU-48FN8-RD0	MOU-55FN8-RD0
Control module			KA8243	KA8243	KA8243	KA8243	KA8243	KA8243
Branch pipe			-	-	-	-	-	-
Outdoor unit power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Control module power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated	kW	7.0	10.5	10.5	12.1	13.6	15.7
	Min-Max	kW	2.2~8.2	2.6~12.0	2.6~12.0	3.2~13.2	4.8~14.6	5.3~16.7
	Input power	kW	2.19	3.91	3.91	4.11	5.42	5.99
Heating	Rated	kW	7.4	11.1	11.1	13.5	15.9	18.2
	Min-Max	kW	2.4~8.7	2.9~13.2	2.9~13.2	2.9~14.7	3.9~16.8	4.4~19.3
	Input power	kW	1.98	3.07	3.07	3.49	5.34	6.03
Fuse		A	20	25	16	16	20	20
Refrigerant piping	Liquid	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52
	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9
Refrigerant	Type		R32	R32	R32	R32	R32	R32
	Charge	kg	1.50	2.40	2.40	2.40	2.80	2.95
Dimensions (width x depth x height)		mm	845x363x702	946x410x810	946x410x810	946x410x810	946x415x1333	946x415x1333
Weight		kg	49.4	66.9	81.5	81.5	106.7	111.3
Ambient temp. range	Cooling	°C	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m. the height difference is 0. The unit contains fluorinated greenhouse gases (R32 GWP=675)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

TECHNICAL SPECIFICATIONS

				NEW				NEW	
Set				**AHU-180-B3**	**AHU-200-A3N1**	**AHU-224-B3**	**AHU-260-A3N1**	**AHU-280-B3**	**AHU-335-B3**
Outdoor unit				MDV-V180W/DRN1	MDV-V200W/DRN1	MDV-V224W/DRN1	MDV-V260W/DRN1	MDV-V280W/DGN1	MDV-V335W/DGN1
Control module				AHUKZ-01N1	AHUKZ-02N1	AHUKZ-02N1	AHUKZ-02N1	AHUKZ-02N1	AHUKZ-03N1
Branch pipe				-	-	-	-	-	-
Outdoor unit power supply (V/phase/Hz)				220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Control module power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated	kW		17.5	20.0	22.4	26.0	28.0	33.5
	Min-Max	kW		-	-	-	-	-	-
	Input power	kW		5.3	6.35	6.8	8.13	12.07	15.09
Heating	Rated	kW		19.0	22.0	24.5	28.5	28.0	33.5
	Min-Max	kW		-	-	-	-	-	-
	Input power	kW		5.0	6.2	5.9	7.2	6.68	7.94
Fuse		A		20	25	25	25	32	32
Refrigerant piping	Liquid	mm		Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø12.7
	Gas	mm		Ø15.9	Ø19.1	Ø19.1	Ø19.1	Ø22.2	Ø25.4
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg		4.5	4.8	6.2	6.2	8.0	8.0
Dimensions (width x depth x height)		mm		900x320x1327	1120x528x1558	1120x528x1558	1120x528x1558	1120x528x1558	1120x528x1558
Weight		kg		107	137	147	147	157	157
Ambient temp. range	Cooling	°C		-15~48	-15~43	-15~43	-15~43	-5~48	-5~48
	Heating	°C		-15~27	-15~27	-15~27	-15~27	-20~24	-20~24

					NEW			
Set			**AHU-400-A3N1**	**AHU-450-A3N1**	**AHU-500-A3N1**	**AHU-500-B3**	**AHU-560-B3**	**AHU-615-B3**
Outdoor unit			MDV-V400W/DRN1	MDV-V450W/DRN1	MDV-V500W/DRN1	MV6-i500WV2GN1-E	MV6-i560WV2GN1-E	MV6-i615WV2GN1-E
Control module			AHUKZ-03N1	AHUKZ-03N1	AHUKZ-03N1	AHUKZ-03N1	AHUKZ-03N1	AHUKZ-02N1 + AHUKZ-02N1
Branch pipe			-	-	-	-	-	2xFQZHN-03D
Outdoor unit power supply (V/phase/Hz)			380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Control module power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated	kW	40.0	45.0	50.4	50.0	56.0	61.5
	Min-Max	kW	-	-	-	-	-	-
	Input power	kW	15.09	13.55	15.3	14.7	16.0	20.2
Heating	Rated	kW	45.0	50.0	55.0	50.0	56.0	61.5
	Min-Max	kW	-	-	-	-	-	-
	Input power	kW	10.0	11.1	14.1	12.2	13.8	17.6
Fuse		A	60	60	60	50	50	63
Refrigerant piping	Liquid	mm	Ø12.7	Ø12.7	Ø12.7	Ø19.1/Ø15.9*	Ø19.1	Ø19.1
	Gas	mm	Ø22.2	Ø25.4	Ø25.4	Ø31.8	Ø31.8	Ø31.8
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	9	12	12	13	17	17
Dimensions (width x depth x height)		mm	1360x540x1650	1460x540x1650	1460x540x1650	1340x850x1635	1340x825x1635	1340x825x1635
Weight		kg	240	275	275	295	344	344
Ambient temp. range	Cooling	°C	-5 ~ 48	-5 ~ 48	-5 ~ 48	-5 ~ 54	-5 ~ 54	-5 ~ 54
	Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m. the height difference is 0. The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

*depending on the selection software

TECHNICAL SPECIFICATIONS

Set				AHU-670-B3	AHU-730-B3	AHU-785-B3	AHU-850-B3	AHU-900-B3
Outdoor unit				MV6-i670WV2GN1-E	MV6-i730WV2GN1-E	MV6-i785WV2GN1-E	MV6-i850WV2GN1-E	MV6-i900WV2GN1-E
Control module				AHUKZ-02N1 + AHUKZ--02N1	AHUKZ-02N1 + AHUKZ--03N1	AHUKZ-02N1 + AHUKZ--03N1	AHUKZ-02N1 + AHUKZ--03N1	AHUKZ-02N1 + AHUKZ--03N1
Branch pipe				2xFQZHN-04D	2xFQZHN-04D	2xFQZHN-04D	2xFQZHN-04D	2xFQZHN-04D
Outdoor unit power supply (V/phase/Hz)				380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Control module power supply (V/phase/Hz)				220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling	Rated	kW		67.0	73.0	78.5	85.0	90.0
	Min-Max	kW		-	-	-	-	-
	Input power	kW		21.60	21.60	24.90	28.30	32.10
Heating	Rated	kW		67.0	73.0	78.5	85.0	90.0
	Min-Max	kW		-	-	-	-	-
	Input power	kW		16.8	18.1	21.8	24.3	26.5
Fuse		A		63	63	63	80	80
Refrigerant piping	Liquid	mm		Ø19.1	Ø22.2/Ø19.1*	Ø22.2/Ø19.1*	Ø19.1	Ø19.1
	Gas	mm		Ø31.8	Ø31.8	Ø31.8	Ø38.1/Ø31.8*	Ø38.1/Ø31.8*
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge	kg		22	22	22	25	25
Dimensions (width x depth x height)		mm		1730x850x1830	1730x850x1830	1730x850x1830	1730x850x1830	1730x850x1830
Weight		kg		407	429	429	475	475
Ambient temp. range	Cooling	°C		-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
	Heating	°C		-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24

Capacity is based on the following conditions:
Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5 m. the height difference is 0. The unit contains fluorinated greenhouse gases (R410A GWP=2088)
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

*depending on the selection software

Model			AHUKZ-01N1	AHUKZ-02N1	AHUKZ-03N1
Power supply			1-phase 220-240V 50Hz		
Cooling	minimum / maximum capacity	kW	9.0~20.0	20.0~36.0	36.0~56.0
Heating	minimum / maximum capacity	kW	9.0~20.0	20.0~36.0	36.0~56.0
Dimensions	Net dimensions (width x height x depth)	mm	375×350×150	375×350×150	375×350×150
	Gross dimensions (width x height x depth)	mm	490×420×240	490×420×240	490×420×240
Refrigerant			R410A		
Refrigerant flow control			Electronic expansion valve		
Piping	Inlet pipe	mm	Ø9.52	Ø12.7	Ø15.9
	Outlet pipe	mm	Ø9.52	Ø12.7	Ø15.9
Wiring	Power supply	mm^2	3×2.5	3×2.5	3×2.5
	Communication with outdoor unit	mm^2	3×0.75 shielded	3×0.75 shielded	3×0.75 shielded
Controller			Wired remote controller KJR-29B		





Midea

VRF TECHNOLOGIES

SERIES

V6



REVERSIBLE HEAT PUMP

HIGH COP

Capacities: **50,4 - 89,5** kW
Pages: **176 - 177**

STANDARD

Capacities: **25,2 - 270,0** kW
Pages: **178 - 195**

SERIES

V6H XTREME HEAT



REVERSIBLE HEAT PUMP

V6H XTREME HEAT

Capacities: **25,2 - 90,0** kW
Pages: **196 - 199**

SERIES

V6i INDIVIDUAL



REVERSIBLE HEAT PUMP

V6i INDIVIDUAL

Capacities: **25,2 - 90,0** kW
Pages: **200 - 203**

SERIES

V6R

NEW



HEAT RECOVERY

STANDARD

Capacities: **22,4 - 150,0 kW**

Pages: **218 - 225**

SERIES

V4 PLUS R



HEAT RECOVERY

HIGH COP

Capacities: **50,4 - 86,7** kW

Pages: **236 - 239**

STANDARD

Capacities: **25,2 - 180,0** kW

Pages: **240 - 251**

SERIES

V4 PLUS W



WATER SUPPLIED

STANDARD

Capacities: **25,2 - 100,5** kW

Pages: **258 - 263**

Outdoor units can be combined into nonstandard configurations. More information can be obtained from our Sales and Technical Adviser.







SERIES

V6

V6 series of Midea VRF system provides innovative outdoor units, operating based on EVI compressors that ensure constant heating and cooling efficiency of the system under extreme conditions.

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

AVAILABLE LINEUP

V6 HIGH COP

Capacity range: 50.4 – 89.5 kW

Features:
- The highest energy efficiency
- The lowest cost of system operation
- Modular construction
- It is possible to create nonstandard configurations



V6 STANDARD

Capacity range: 25,2 – 270,0 kW

Features:
- High performance, space saving
- Broad possibilities of system expansion
- Reliable operation thanks to the modular construction



V6H XTREME HEAT

Capacity range: 25,2 – 90,0 kW

Features:
- System for heating operation
- Recommended operating temperature range for heating: -30 ~ + 24°C
- Green heat source – air to air heat pump



V6i INDIVIDUAL

Capacity range: 25,2 – 90,0 kW

Features:
- The highest capacity – up to 90 kW in a single module
- Compact design
- Installation space saving



Outdoor unit can be combined into nonstandard configurations. More information can be obtained from our Sales and Technical Adviser.

UNITS FEATURES

INNOVATIVE TECHNOLOGY

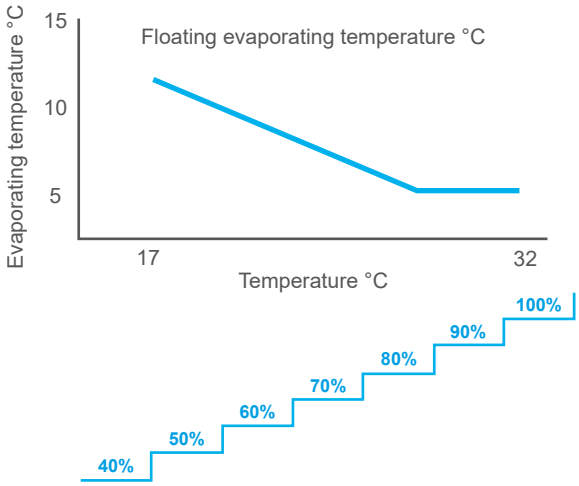
ENERGY MANAGEMENT SYSTEM (EMS)

Floating refrigerant temperature to balance comfort and efficiency

The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency.

Output limitation during electricity supply restrictions

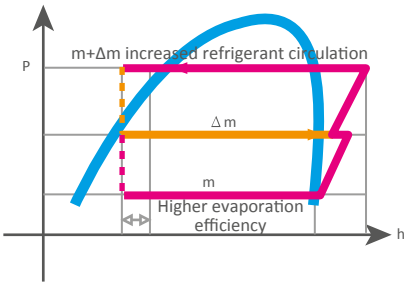
With the integration of EMS, for projects with temporary electricity supply restrictions, V6 system can be set to output 40-100% capacity.



ENHANCED VAPOUR INJECTION (EVI) COMPRESSOR

Thanks to the vapor injection DC inverter compressors, the V6 VRF units can run heating mode stably down to -25°C, and the heating capacity can be improved greatly.


EVI compressor



TRIPLE CONFIGURATION

Triple (local/remote/network) configurations greatly simplify installation, commissioning and maintenance.

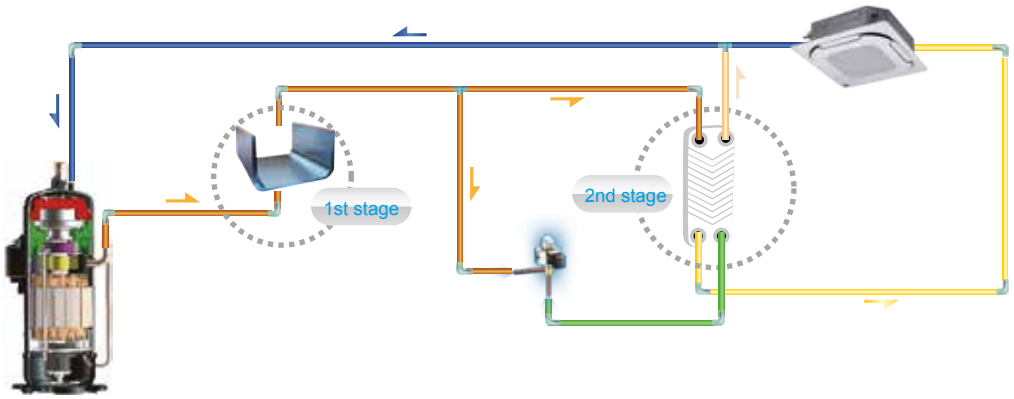
- Field local configuration achieves quick and easy on-site settings, simplifies installation and commissioning.
- System checking and settings also can be easily achieved via wired and centralized controller, making the configuration more flexible and convenient.
- A desktop or laptop PC can be used for browser-based access to achieve system configurations through IMM
- Pro gateway via a LAN connection.



HIGH EFFICIENCY

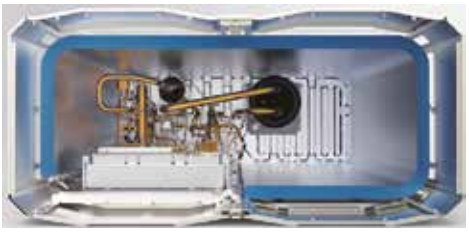
PLATE HEAT EXCHANGER SUBCOOLING

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling and improves energy efficiency by 10%.

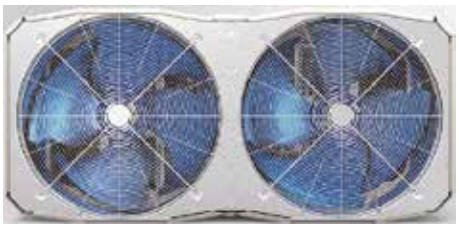


HIGH EFFICIENCY G-TYPE HEAT EXCHANGER

67.0-90.0 kW units use a high efficiency 3-row G-typee heat exchanger with a heat exchange area 1.5 times that of the 61.5 kW unit. The 67.0 – 90 kW units also use super big size fan which diameter is up to 750 mm.



3-row G-typee heat exchanger



Big size fan

WIDE CAPACITY RANGE

Very wide range of outdoor units, from 25.2 kW up to 90.0 kW. System V6 provides the world's largest single VRF unit capacity.

25.2/28.0/33.5 kW
(with single fan)



40.0/45.0/50.0 kW
(with single fan)



56.0/61.5 kW
(with dual fans)



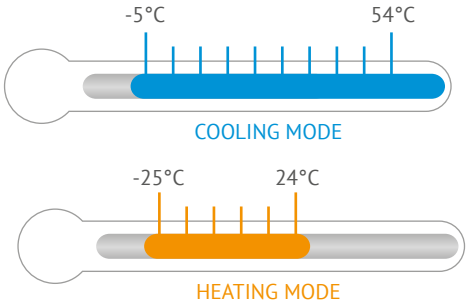
67.0/73.0/78.5/85.0/90.0 kW
THE HIGHEST POWER ON MARKET
(with dual fans)



HIGH RELIABILITY

RECOMMENDED TEMPERATURE RANGE

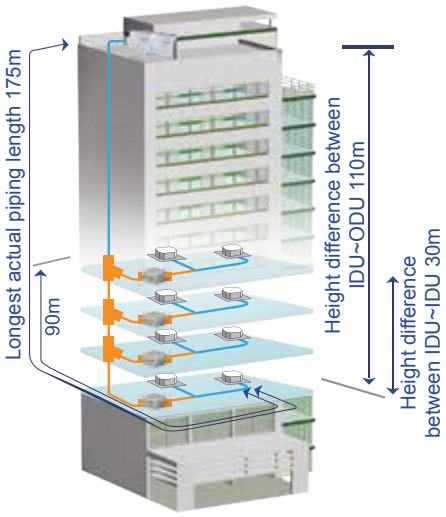
The V6 series VRF can operate stably in a wide ambient temperature range: from -5°C to 54°C in cooling mode and from -25°C to 24°C in heating mode.



LONG REFRIGERANT PIPING

V6 system provides the piping of the total length up to 1000 m. Complex facilities enable high degree of system design flexibility.

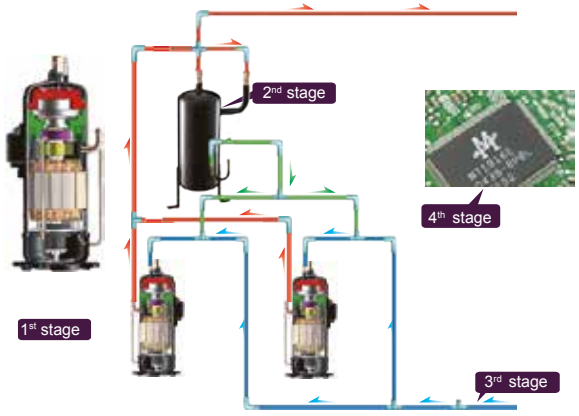
			Allowed value (m)
Piping length	Total piping length		1000
	Longest piping length	actual length	175
		equivalent length	200
	Piping equivalent length (from the fartest indoor unit to the first branch)		40/90
Height difference	Height difference between indoor/ outdoor unit	outdoor unit below	90
		outdoor unit above	110
	Height difference between indoor units		30



PRECISE OIL CONTROL TECHNOLOGY

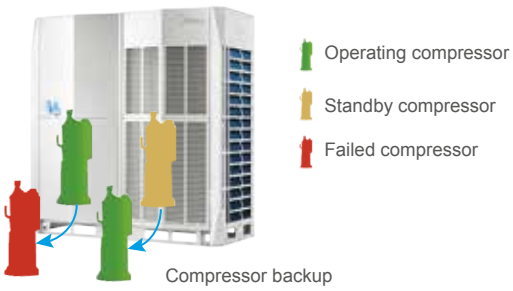
Four stages of oil control technology ensure all outdoor unit compressor's oil is always kept at a safe level, eliminating any compressor oil shortage problems.

- **1st stage:** compressor internal oil separation.
- **2nd stage:** high-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion..
- **3rd stage:** oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- **4th stage:** auto oil return program monitors the running time and system status to ensure reliable oil return.



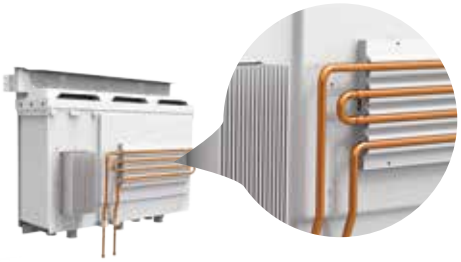
BACK UP OPERATION

In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.



REFRIGERANT COOLING PCB

The V6 VRF uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 °C, guaranteeing the stable and safe running of the control system.



ANTI-CORROSION PROTECTION

Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life. The integrity of the anti-corrosion treatment is ensured by subjecting major components and parts to salt mist testing, moisture and heating testing and light aging testing.



Fan motor
Standard products:
• 72 h of neutral salt mist

Heavy anti-corrosion products:
• 240 h of neutral salt mist

Painted sheet metal
Standard products:
• 500 h of neutral salt mist
• 1000 h of moisture and heating test
• 500 h of light aging test

Heavy anti-corrosion products:
• 1000 h of neutral salt mist
• 2000 h of moisture and heating test
• 720 h of light aging test

Heat exchanger aluminum foil
Standard products:
• 72 h of neutral salt mist

Heavy anti-corrosion products:
• 1000 h of neutral salt mist
• 140 h of acid salt mist

Heat exchanger copper pipe
Standard products:
• 24 h of neutral salt mist

Heavy anti-corrosion products:
• 120 h of neutral salt mist

Electric control box cover
Standard products:
• 96 h of neutral salt mist

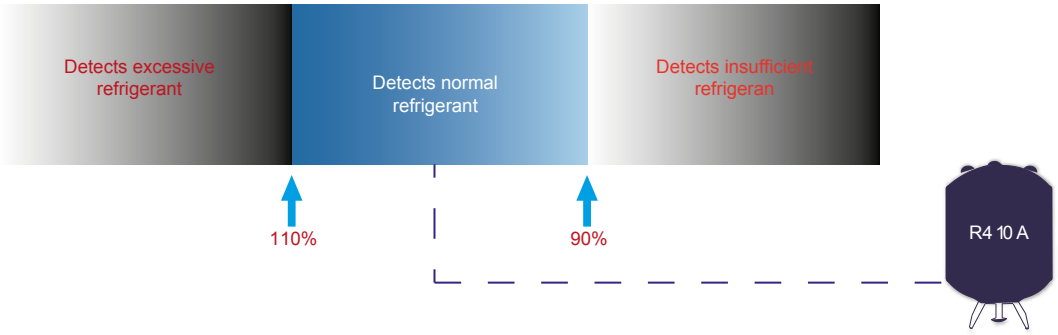
Heavy anti-corrosion products:
• 240 h of neutral salt mist

Screw / bolts / gaskets
Standard products:
• 300 h of neutral salt mist

Heavy anti-corrosion products:
• 720 h of neutral salt mist

REAL-TIME REFRIGERANT **CHARGE MONITORING**

The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. V6 outdoor unit can detect excessive or insufficient refrigerant charge, to ensure consistent performance.



AUTO SNOW-BLOWING FUNCTION

The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.



DUST-CLEAN FUNCTION

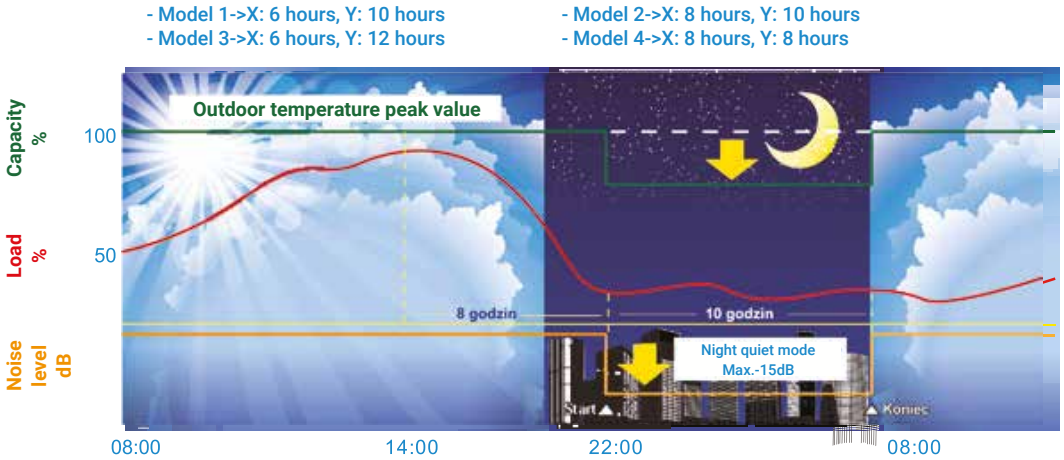
The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.



ENHANCED COMFORT

NIGHT SILENT MODE

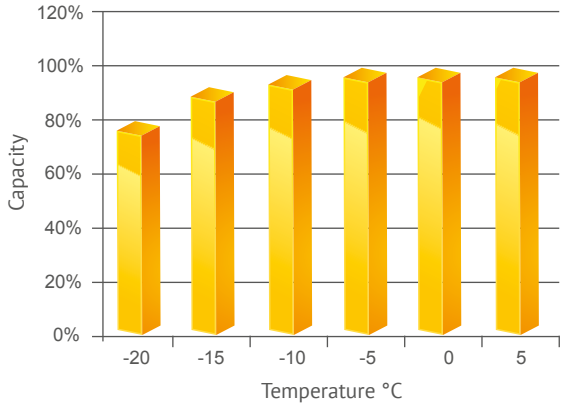
The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.



Notes:
This function can be enabled by configuring appropriate settings. The graph shows an exemplary temperature (load) curve.

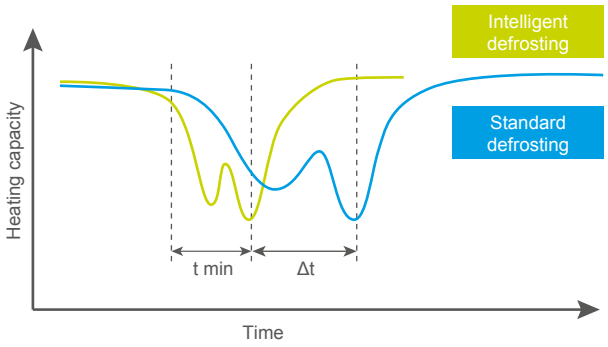
ENHANCED HEATING CAPACITY

Heating capacity is 100% of rated capacity at ambient temperatures as low as -5oC and 90% of rated capacity at -15oC.



INTELLIGENT DEFROSTING TECHNOLOGY

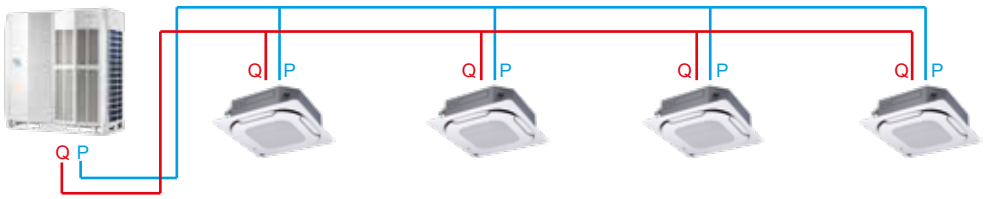
The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little as 4 minutes.



EASY INSTALLATION AND SERVICE

NON-POLARIZED COMMUNICATION WIRING

Only one chain of 2-core non-polarized shielded communication wiring required for indoor and outdoor unit communication. In installations where relatively strong electromagnetic fields are present, 3-core shielded wiring should be used in order to prevent interference.

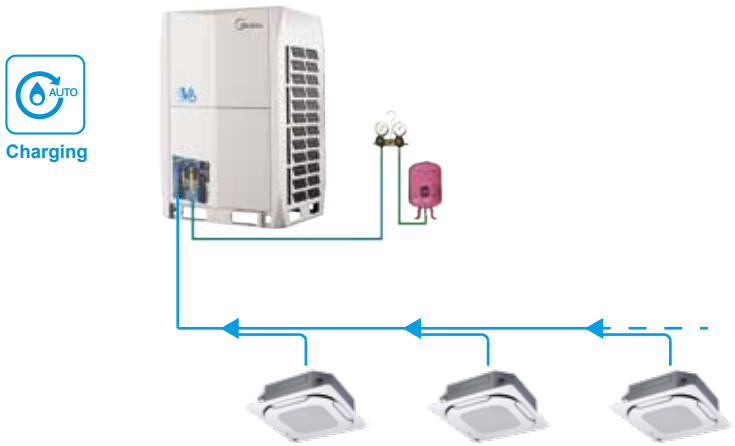


AUTO ADDRESSING

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.

AUTOMATIC REFRIGERANT CHARGING FUNCTION

Automatic refrigerant charging makes installation and service easier and more efficient.



AUTOMATIC DATA BACKUP

The outdoor unit saves in the memory all operation parameters data from the last 30 minutes, what significantly speed up the troubleshooting process.



REVERSIBLE HEAT PUMP



50,4 - 67,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-500WV2GN1-EC	MV6-560WV2GN1-EC	MV6-615WV2GN1-EC	MV6-670WV2GN1-EC
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	50,4	56,0	61,5	67,0
	Input power	kW	11,86	13,50	15,45	17,40
	EER	kW/kW	4,25	4,15	3,98	3,85
	SEER	kW/kW	7,70	7,54	7,40	7,28
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	50,40	56,0	61,5	67,0
	Input power	kW	9,64	10,92	12,06	13,2
	COP	kW/kW	5,23	5,13	5,10	5,08
	SCOP	kW/kW	4,17	4,17	4,39	4,57
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	60	61	62	63
Refrigerant piping diameter	Liquid	mm	Ø12.7	Ø12.7	*Ø15,9/12.7	*Ø15,9/12.7
	Gas	mm	Ø25.4	Ø25.4	*Ø28,6/25.4	*Ø28,6/25.4

Model			MV6-252WV2GN1-E	MV6-252WV2GN1-E	MV6-280WV2GN1-E	MV6-280WV2GN1-E	MV6-280WV2GN1-E	MV6-335WV2GN1-E	MV6-335WV2GN1-E	MV6-335WV2GN1-E
Outdoor diameter	Width x height x depth	mm	990×1635×790	990×1635×790	990×1635×790	990×1635×790	990×1635×790	990×1635×790	990×1635×790	990×1635×790
Net weight		kg	227	227	227	227	227	227	227	227
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	11000	11000	11000	11000	11000	11000	11000
	Type x Amount		Axial x 1	Axial x 1	Axial x 1	Axial x 1	Axial x 1	Axial x 1	Axial x 1	Axial x 1
	Motor power	kW	0,56	0,56	0,56	0,56	0,56	0,56	0,56	0,56
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 11 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

Configuration recommended by the manufacturer. Outdoor units can be combined into nonstandard configurations.
More information can be obtained from our Sales and Technical Adviser.

REVERSIBLE HEAT PUMP



73,0 - 89,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-730WV2GN1-EC	MV6-785WV2GN1-EC	MV6-850WV2GN1-EC	MV6-900WV2GN1-EC
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	73,0	78,0	84,0	89,5
	Input power	kW	18,75	19,25	21,85	25,15
	EER	kW/kW	3,89	4,05	3,84	3,56
	SEER	kW/kW	6,54	7,10	6,87	6,72
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	73,0	78,0	84,0	89,5
	Input power	kW	15,26	16,06	18,16	20,46
	COP	kW/kW	4,78	4,86	4,63	4,37
	SCOP	kW/kW	4,26	3,93	3,92	3,92
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	64	65	65	67
Refrigerant piping diameter	Liquid	mm	Ø15,9	Ø19,1	Ø19,1	Ø19,1
	Gas	mm	Ø31,8	Ø31,8	Ø31,8	Ø31,8

Model			MV6-280WV2GN1-E	MV6-450WV2GN1-E	MV6-280WV2GN1-E	MV6-500WV2GN1-E	MV6-280WV2GN1-E	MV6-560WV2GN1-E	MV6-280WV2GN1-E	MV6-615WV2GN1-E
Outdoor diameter	Width x height x depth	mm	990×1635×790	1340×1635×850	990×1635×790	1340×1635×825	990×1635×790	1340×1635×825	990×1635×790	1340×1635×825
Net weight		kg	227	277	227	348	227	348	227	348
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	13000	11000	17000	11000	17000	11000	17000
	Type x Amount		Axial x 1	Axial x 1	Axial x 1	Axial x 2	Axial x 1	Axial x 2	Axial x 1	Axial x 2
	Motor power	kW	0,56	0,92	0,56	0,56x2	0,56	0,56x2	0,56	0,56x2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 13 kg	R410A x 11 kg	R410A x 17 kg	R410A x 11 kg	R410A x 17 kg	R410A x 11 kg	R410A x 17 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

Configuration recommended by the manufacturer. Outdoor units can be combined into nonstandard configurations.
More information can be obtained from our Sales and Technical Adviser.

REVERSIBLE HEAT PUMP



25,2 – 40,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-252WV2GN1-E	MV6-280WV2GN1-E	MV6-335WV2GN1-E	MV6-400WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	25,2	28,0	33,5	40,0
	Input power	kW	5,93	6,75	8,70	9,90
	EER	kW/kW	4,25	4,15	3,85	4,05
	SEER	kW/kW	7,70	7,54	7,28	6,22
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	25,2	28,0	33,5	40,0
	Input power	kW	4,82	5,46	6,6	8,5
	COP	kW/kW	5,23	5,13	5,10	4,71
	SCOP	kW/kW	4,17	4,17	4,57	4,31
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 58	43 ~ 58	43 ~ 60	43 ~ 62
Sound power level		dB(A)	78	78	81	85
Refrigerant piping diameter	Liquid	mm	Ø12.7	Ø12.7	*Ø15.9/12.7	Ø15.9
	Gas	mm	Ø25.4	Ø25.4	*Ø28.6/25.4	Ø31.8
Outdoor diameter	Width x height x depth	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x850
Net weight		kg	227	227	227	277
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	11000	11000	13000
	Type x Amount		Axial x 1	Axial x 1	Axial x 1	Axial x 1
	Motor power	kW	0,56	0,56	0,56	0,92
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



45,0 - 61,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-450WV2GN1-E	MV6-500WV2GN1-E	MV6-560WV2GN1-E	MV6-615WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	45,0	50,0	56,0	61,5
	Input power	kW	12,00	12,50	15,10	18,40
	EER	kW/kW	3,75	4,00	3,71	3,34
	SEER	kW/kW	5,92	6,85	6,54	6,35
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	45,0	50,0	56,0	61,5
	Input power	kW	9,8	10,6	12,7	15,0
	COP	kW/kW	4,59	4,72	4,41	4,10
	SCOP	kW/kW	4,31	3,80	3,80	3,80
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 65	43 ~ 65	43 ~ 66	43 ~ 66
Sound power level		dB(A)	88	88	88	88
Refrigerant piping diameter	Liquid	mm	Ø15.9	Ø19.1	Ø19.1	Ø19.1
	Gas	mm	Ø31.8	Ø31.8	Ø31.8	Ø31.8
Outdoor diameter	Width x height x depth	mm	1340x1635x850	1340x1635x825	1340x1635x825	1340x1635x825
Net weight		kg	277	348	348	348
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	13000	17000	17000	17000
	Type x Amount		Axial x 1	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,92	0,56 x2	0,56 x2	0,56 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 17 kg	R410A x 17 kg	R410A x 17 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



67,0 – 78,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-670WV2GN1-E	MV6-730WV2GN1-E	MV6-785WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	67,0	73,0	78,5
	Input power	kW	18,10	20,90	24,20
	EER	kW/kW	3,70	3,49	3,24
	SEER	kW/kW	7,00	6,51	6,22
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	67,0	73,0	78,5
	Input power	kW	15,3	18,1	21,16
	COP	kW/kW	4,37	4,03	3,71
	SCOP	kW/kW	3,95	3,95	3,95
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 67	43 ~ 68	43 ~ 68
Sound power level		dB(A)	89	90	90
Refrigerant piping diameter	Liquid	mm	Ø19.1	*Ø22.2/19.1	*Ø22.2/19.1
	Gas	mm	Ø31.8	Ø31.8	Ø31.8
Outdoor diameter	Width x height x depth	mm	1730x1830x850	1730x1830x850	1730x1830x850
Net weight		kg	430	430	430
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	25000	25000	25000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,92 x2	0,92 x2	0,92 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 22 kg	R410A x 22 kg	R410A x 22 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



85,0 - 90,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-850WV2GN1-E	MV6-900WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	85,0	90,0
	Input power	kW	27,40	31,00
	EER	kW/kW	3,10	2,90
	SEER	kW/kW	6,10	5,90
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	85,0	90,0
	Input power	kW	22,9	25,7
	COP	kW/kW	3,71	3,50
	SCOP	kW/kW	3,98	3,98
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 68	43 ~ 68
Sound power level		dB(A)	90	90
Refrigerant piping diameter	Liquid	mm	Ø22.2	Ø22.2
	Gas	mm	*Ø38.1/31.8	*Ø38.1/31.8
Outdoor diameter	Width x height x depth	mm	1730x1830x850	1730x1830x850
Net weight		kg	475	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	24000	24000
	Type x Amount		Axial x 2	Axial x 2
	Motor power	kW	0,92 x2	0,92 x2
Protections	High pressure protection	MPa	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection	
	Compressor		overheating protection, overload protection	
Refrigerant	Type x factory charge		R410A x 25 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



95,0 - 106,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-950WV2GN1-E		MV6-1015WV2GN1-E		MV6-1065WV2GN1-E	
Power supply			380-415V, 3N, 50Hz		380-415V, 3N, 50Hz		380-415V, 3N, 50Hz	
Rated cooling capacity		kW	95,0		101,5		106,5	
	Input power	kW	27,10		28,20		30,40	
	EER	kW/kW	3,51		3,60		3,51	
	SEER	kW/kW	6,68		6,30		6,17	
Temperature range for cooling		°C	-5 ~ 54		-5 ~ 54		-5 ~ 54	
Rated heating capacity		kW	95,0		101,5		106,5	
	Input power	kW	21,6		23,5		24,8	
	COP	kW/kW	4,40		4,32		4,30	
	SCOP	kW/kW	4,07		4,00		4,02	
Temperature range for heating		°C	-25 ~ 24		-25 ~ 24		-25 ~ 24	
Connectable indoor units	Total capacity		50-200%		50-200%		50-200%	
	Max. quantity		up to 64		up to 64		up to 64	
Sound pressure level		dB(A)	43 ~ 69		43 ~ 69		43 ~ 69	
Sound power level		dB(A)	91		91		91	
Refrigerant piping diameter	Liquid	mm	Ø19.1		Ø19.1		Ø19.1	
	Gas	mm	Ø31.8		Ø38.1		Ø38.1	
Model			**MV6-335WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-400WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-450WV2GN1-E**	**MV6-615WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	990x1635x790	1340×1635×825	1340×1635×850	1340×1635×825	1340×1635×850	1340×1635×825
Net weight		kg	227	348	277	348	277	348
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	17000	13000	17000	13000	17000
	Type x Amount		Axial x 1	Axial x 2	Axial x 1	Axial x 2	Axial x 1	Axial x 2
	Motor power	kW	0,56	0,56 x2	0.92	0,56 x2	0,92	0,56 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 17 kg	R410A x 13 kg	R410A x 17 kg	R410A x 13 kg	R410A x 17 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



112,0 - 123,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-1120WV2GN1-E		MV6-1175WV2GN1-E		MV6-1230WV2GN1-E	
Power supply			380-415V, 3N, 50Hz		380-415V, 3N, 50Hz		380-415V, 3N, 50Hz	
Rated cooling capacity		kW	112,0		117,5		123,0	
	Input power	kW	32,90		33,50		36,70	
	EER	kW/kW	3,41		3,51		3,35	
	SEER	kW/kW	6,54		6,44		6,35	
Temperature range for cooling		°C	-5 ~ 54		-5 ~ 54		-5 ~ 54	
Rated heating capacity		kW	112,0		117,5		123,0	
	Input power	kW	27,7		27,7		30,0	
	COP	kW/kW	4,04		4,24		4,10	
	SCOP	kW/kW	4,14		3,80		3,80	
Temperature range for heating		°C	-25 ~ 24		-25 ~ 24		-25 ~ 24	
Connectable indoor units	Total capacity		50-200%		50-200%		50-200%	
	Max. quantity		up to 64		up to 64		up to 64	
Sound pressure level		dB(A)	43 ~ 69		43 ~ 70		43 ~ 70	
Sound power level		dB(A)	91		92		92	
Refrigerant piping diameter	Liquid	mm	Ø19.1		Ø19.1		Ø19.1	
	Gas	mm	Ø38.1		Ø38.1		Ø38.1	
Model			**MV6-335WV2GN1-E**	**MV6-785WV2GN1-E**	**MV6-560WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-615WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	990x1635x790	1730 × 1830 × 850	1340×1635×825	1340×1635×825	1340×1635×825	1340×1635×825
Net weight		kg	227	430	348	348	348	348
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	25000	17000	17000	17000	17000
	Type x Amount		Axial x 1	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,56	0.92×2	0.56×2	0,56 x2	0,56 x2	0,56 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 22 kg	R410A x 17 kg	R410A x 17 kg	R410A x 17 kg	R410A x 17 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



128,5 - 140,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-1285WV2GN1-E		MV6-1345WV2GN1-E		MV6-1400WV2GN1-E	
Power supply			380-415V, 3N, 50Hz		380-415V, 3N, 50Hz		380-415V, 3N, 50Hz	
Rated cooling capacity		kW	128,5		134,5		140,0	
	Input power	kW	36,50		39,30		42,50	
	EER	kW/kW	3,52		3,43		3,29	
	SEER	kW/kW	6,69		6,44		6,28	
Temperature range for cooling		°C	-5 ~ 54		-5 ~ 54		-5 ~ 54	
Rated heating capacity		kW	128,5		134,5		140,0	
	Input power	kW	30,43		33,2		36,2	
	COP	kW/kW	4,22		4,05		3,87	
	SCOP	kW/kW	3,88		3,88		3,88	
Temperature range for heating		°C	-25 ~ 24		-25 ~ 24		-25 ~ 24	
Connectable indoor units	Total capacity		50-200%		50-200%		50-200%	
	Max. quantity		up to 64		up to 64		up to 64	
Sound pressure level		dB(A)	43 ~ 70		43 ~ 70		43 ~ 70	
Sound power level		dB(A)	92		92		92	
Refrigerant piping diameter	Liquid	mm	Ø19.1		Ø19.1		Ø19.1	
	Gas	mm	Ø38.1		Ø38.1		Ø38.1	
Model			**MV6-615WV2GN1-E**	**MV6-670WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-730WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-785WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	1340×1635×825	1730 × 1830 × 850	1340×1635×825	1730 × 1830 × 850	1340×1635×825	1730 × 1830 × 850
Net weight		kg	348	430	348	430	348	430
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	17000	25000	17000	25000	17000	25000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,56 x2	0.92×2	0,56 x2	0.92×2	0,56 x2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 17 kg	R410A x 22 kg	R410A x 17 kg	R410A x 22 kg	R410A x 17 kg	R410A x 22 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



146,0 – 163,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-1460WV2GN1-E	MV6-1515WV2GN1-E	MV6-1570WV2GN1-E	MV6-1635WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	146,0	151,5	157,0	163,5
	Input power	kW	41,80	45,10	48,30	51,60
	EER	kW/kW	3,49	3,36	3,25	3,17
	SEER	kW/kW	6,51	6,36	6,22	6,16
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	146,0	151,5	157,0	163,5
	Input power	kW	36,22	39,3	42,3	44,1
	COP	kW/kW	4,03	3,85	3,71	3,71
	SCOP	kW/kW	3,95	3,95	3,95	3,97
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 70	43 ~ 70	43 ~ 70	43 ~ 70
Sound power level		dB(A)	92	92	92	92
Refrigerant piping diameter	Liquid	mm	Ø19.1	Ø19.1	Ø19.1	Ø19.1
	Gas	mm	Ø38.1	Ø38.1	Ø41,3	Ø41,3

Model			MV6-730WV2GN1-E	MV6-730WV2GN1-E	MV6-730WV2GN1-E	MV6-785WV2GN1-E	MV6-785WV2GN1-E	MV6-785WV2GN1-E	MV6-785WV2GN1-E	MV6-850WV2GN1-E
Outdoor diameter	Width x height x depth	mm	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	430	430	430	430	430	430	430	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	25000	25000	25000	25000	25000	25000	25000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 22 kg	R410A x 22 kg	R410A x 22 kg	R410A x 22 kg	R410A x 22 kg	R410A x 22 kg	R410A x 22 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



168,5 - 180,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-1685WV2GN1-E		MV6-1750WV2GN1-E		MV6-1800WV2GN1-E	
Power supply			380-415V, 3N, 50Hz		380-415V, 3N, 50Hz		380-415V, 3N, 50Hz	
Rated cooling capacity		kW	168,5		175,0		180,0	
	Input power	kW	55,20		58,50		62,10	
	EER	kW/kW	3,05		2,99		2,90	
	SEER	kW/kW	6,05		6,00		5,90	
Temperature range for cooling		°C	-5 ~ 54		-5 ~ 54		-5 ~ 54	
Rated heating capacity		kW	168,5		175,0		180,0	
	Input power	kW	46,9		48,7		51,4	
	COP	kW/kW	3,59		3,59		3,50	
	SCOP	kW/kW	3,97		3,98		3,98	
Temperature range for heating		°C	-25 ~ 24		-25 ~ 24		-25 ~ 24	
Connectable indoor units	Total capacity		50-200%		50-200%		50-200%	
	Max. quantity		up to 64		up to 64		up to 64	
Sound pressure level		dB(A)	43 ~ 70		43 ~ 70		43 ~ 70	
Sound power level		dB(A)	92		92		92	
Refrigerant piping diameter	Liquid	mm	Ø19.1		Ø19.1		Ø19.1	
	Gas	mm	Ø41,3		Ø41,3		Ø41,3	
Model			**MV6-785WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-850WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-900WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	430	475	475	475	475	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	25000	24000	24000	24000	24000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 22 kg	R410A x 25 kg	R410A x 25 kg	R410A x 25 kg	R410A x 25 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



185,0 – 191,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-1850WV2GN1-E			MV6-1915WV2GN1-E		
Power supply			380-415V, 3N, 50Hz			380-415V, 3N, 50Hz		
Rated cooling capacity		kW	185,0			191,5		
	Input power	kW	58,10			59,30		
	EER	kW/kW	3,18			3,23		
	SEER	kW/kW	6,30			6,11		
Temperature range for cooling		°C	-5 ~ 54			-5 ~ 54		
Rated heating capacity		kW	185,0			191,5		
	Input power	kW	47,3			49,2		
	COP	kW/kW	3,91			3,89		
	SCOP	kW/kW	4,03			3,99		
Temperature range for heating		°C	-25 ~ 24			-25 ~ 24		
Connectable indoor units	Total capacity		50-200%			50-200%		
	Max. quantity		up to 64			up to 64		
Sound pressure level		dB(A)	43 ~ 71			43 ~ 71		
Sound power level		dB(A)	93			93		
Refrigerant piping diameter	Liquid	mm	Ø19.1			Ø22,2		
	Gas	mm	Ø41,3			Ø44,5		
Model			**MV6-335WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-400WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-900WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	990x1635x790	1340×1635×825	1730 × 1830 × 850	1340×1635×850	1340×1635×825	1730 × 1830 × 850
Net weight		kg	227	348	475	277	348	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	17000	24000	13000	17000	24000
	Type x Amount		Axial x 1	Axial x 2	Axial x 2	Axial x 1	Axial x 2	Axial x 2
	Motor power	kW	0,56	0,56 x2	0.92×2	0.92	0,56 x2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 17 kg	R410A x 25 kg	R410A x 13 kg	R410A x 17 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



196,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-1965WV2GN1-E		
Power supply			380-415V, 3N, 50Hz		
Rated cooling capacity		kW	196,5		
	Input power	kW	61,40		
	EER	kW/kW	3,20		
	SEER	kW/kW	6,05		
Temperature range for cooling		°C	-5 ~ 54		
Rated heating capacity		kW	196,5		
	Input power	kW	50,5		
	COP	kW/kW	3,89		
	SCOP	kW/kW	4,00		
Temperature range for heating		°C	-25 ~ 24		
Connectable indoor units	Total capacity		50-200%		
	Max. quantity		up to 64		
Sound pressure level		dB(A)	43 ~ 71		
Sound power level		dB(A)	93		
Refrigerant piping diameter	Liquid	mm	Ø22,2		
	Gas	mm	Ø44,5		
Model			**MV6-450WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-900WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	1340×1635×850	1340×1635×825	1730 × 1830 × 850
Net weight		kg	277	348	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	13000	17000	24000
	Type x Amount		Axial x 1	Axial x 2	Axial x 2
	Motor power	kW	0,92	0,56 x2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 17 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



202,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-2020WV2GN1-E		
Power supply			380-415V, 3N, 50Hz		
Rated cooling capacity		kW	202,0		
	Input power	kW	63,90		
	EER	kW/kW	3,16		
	SEER	kW/kW	6,25		
Temperature range for cooling		°C	-5 ~ 54		
Rated heating capacity		kW	202,0		
	Input power	kW	53,4		
	COP	kW/kW	3,78		
	SCOP	kW/kW	4,07		
Temperature range for heating		°C	-25 ~ 24		
Connectable indoor units	Total capacity		50-200%		
	Max. quantity		up to 64		
Sound pressure level		dB(A)	43 ~ 71		
Sound power level		dB(A)	93		
Refrigerant piping diameter	Liquid	mm	Ø22,2		
	Gas	mm	Ø44,5		
Model			**MV6-335WV2GN1-E**	**MV6-785WV2GN1-E**	**MV6-900WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	990x1635x790	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	227	430	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	25000	24000
	Type x Amount		Axial x 1	Axial x 2	Axial x 2
	Motor power	kW	0,56	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 22 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



207,5 - 213,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-2075WV2GN1-E			MV6-2130WV2GN1-E		
Power supply			380-415V, 3N, 50Hz			380-415V, 3N, 50Hz		
Rated cooling capacity		kW	207,5			213,0		
	Input power	kW	64,50			67,80		
	EER	kW/kW	3,22			3,14		
	SEER	kW/kW	6,21			6,16		
Temperature range for cooling		°C	-5 ~ 54			-5 ~ 54		
Rated heating capacity		kW	207,5			213,0		
	Input power	kW	53,4			55,7		
	COP	kW/kW	3,88			3,82		
	SCOP	kW/kW	3,88			3,88		
Temperature range for heating		°C	-25 ~ 24			-25 ~ 24		
Connectable indoor units	Total capacity		50-200%			50-200%		
	Max. quantity		up to 64			up to 64		
Sound pressure level		dB(A)	43 ~ 72			43 ~ 72		
Sound power level		dB(A)	94			94		
Refrigerant piping diameter	Liquid	mm	Ø22,2			Ø22,2		
	Gas	mm	Ø44,5			Ø44,5		
Model			**MV6-560WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-900WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	1340×1635×825	1340×1635×825	1730 × 1830 × 850	1340×1635×825	1340×1635×825	1730 × 1830 × 850
Net weight		kg	348	348	475	348	348	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	17000	17000	24000	17000	17000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0.56×2	0,56 x2	0.92×2	0,56 x2	0,56 x2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 17 kg	R410A x 17 kg	R410A x 25 kg	R410A x 17 kg	R410A x 17 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



218,5 – 224,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-2185WV2GN1-E			MV6-2245WV2GN1-E		
Power supply			380-415V, 3N, 50Hz			380-415V, 3N, 50Hz		
Rated cooling capacity		kW	218,5			224,5		
	Input power	kW	67,50			70,30		
	EER	kW/kW	3,24			3,19		
	SEER	kW/kW	6,36			6,22		
Temperature range for cooling		°C	-5 ~ 54			-5 ~ 54		
Rated heating capacity		kW	218,5			224,5		
	Input power	kW	56,1			58,3		
	COP	kW/kW	3,89			3,85		
	SCOP	kW/kW	3,92			3,92		
Temperature range for heating		°C	-25 ~ 24			-25 ~ 24		
Connectable indoor units	Total capacity		50-200%			50-200%		
	Max. quantity		up to 64			up to 64		
Sound pressure level		dB(A)	43 ~ 72			43 ~ 72		
Sound power level		dB(A)	94			94		
Refrigerant piping diameter	Liquid	mm	Ø22,2			Ø22,2		
	Gas	mm	Ø44,5			Ø44,5		
Model			**MV6-615WV2GN1-E**	**MV6-670WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-615WV2GN1-E**	**MV6-730WV2GN1-E**	**MV6-900WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	1340×1635×825	1730 × 1830 × 850	1730 × 1830 × 850	1340×1635×825	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	348	430	475	348	430	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	17000	25000	24000	17000	25000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,56 x2	0.92×2	0.92×2	0,56 x2	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 17 kg	R410A x 22 kg	R410A x 25 kg	R410A x 17 kg	R410A x 22 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



230,0 - 236,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-2300WV2GN1-E	MV6-2360WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	230,0	236,0
	Input power	kW	73,50	72,80
	EER	kW/kW	3,13	3,24
	SEER	kW/kW	6,13	6,28
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	230,0	236,0
	Input power	kW	61,9	61,9
	COP	kW/kW	3,72	3,81
	SCOP	kW/kW	3,92	3,96
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 72	43 ~ 72
Sound power level		dB(A)	94	94
Refrigerant piping diameter	Liquid	mm	Ø22,2	Ø25,4
	Gas	mm	Ø44,5	Ø50,8

Model			MV6-615WV2GN1-E	MV6-785WV2GN1-E	MV6-900WV2GN1-E	MV6-730WV2GN1-E	MV6-730WV2GN1-E	MV6-900WV2GN1-E
Outdoor diameter	Width x height x depth	mm	1340×1635×825	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	348	430	475	430	430	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	17000	25000	24000	25000	25000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,56 x2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 17 kg	R410A x 22 kg	R410A x 25 kg	R410A x 22 kg	R410A x 22 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



241,5 – 247,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-2415WV2GN1-E	MV6-2470WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	241,5	247,0
	Input power	kW	76,10	79,30
	EER	kW/kW	3,17	3,11
	SEER	kW/kW	6,19	6,10
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	241,5	247,0
	Input power	kW	65,0	68,0
	COP	kW/kW	3,72	3,63
	SCOP	kW/kW	3,96	3,96
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 72	43 ~ 72
Sound power level		dB(A)	94	94
Refrigerant piping diameter	Liquid	mm	Ø25,4	Ø25,4
	Gas	mm	Ø50,8	Ø50,8

Model			MV6-730WV2GN1-E	MV6-785WV2GN1-E	MV6-900WV2GN1-E	MV6-785WV2GN1-E	MV6-785WV2GN1-E	MV6-900WV2GN1-E
Outdoor diameter	Width x height x depth	mm	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	430	430	475	430	430	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	25000	25000	24000	25000	25000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 22 kg	R410A x 22 kg	R410A x 25 kg	R410A x 22 kg	R410A x 22 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



253,5 - 258,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-2535WV2GN1-E			MV6-2585WV2GN1-E		
Power supply			380-415V, 3N, 50Hz			380-415V, 3N, 50Hz		
Rated cooling capacity		kW	253,5			258,5		
	Input power	kW	82,60			86,20		
	EER	kW/kW	3,07			3,00		
	SEER	kW/kW	6,07			6,00		
Temperature range for cooling		°C	-5 ~ 54			-5 ~ 54		
Rated heating capacity		kW	253,5			258,5		
	Input power	kW	69,8			72,6		
	COP	kW/kW	3,63			3,56		
	SCOP	kW/kW	3,97			3,97		
Temperature range for heating		°C	-25 ~ 24			-25 ~ 24		
Connectable indoor units	Total capacity		50-200%			50-200%		
	Max. quantity		up to 64			up to 64		
Sound pressure level		dB(A)	43 ~ 72			43 ~ 72		
Sound power level		dB(A)	94			94		
Refrigerant piping diameter	Liquid	mm	Ø25,4			Ø25,4		
	Gas	mm	Ø50,8			Ø50,8		
Model			**MV6-785WV2GN1-E**	**MV6-850WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-785WV2GN1-E**	**MV6-900WV2GN1-E**	**MV6-900WV2GN1-E**
Outdoor diameter	Width x height x depth	mm	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	430	475	475	430	475	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	25000	24000	24000	25000	24000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 22 kg	R410A x 25 kg	R410A x 25 kg	R410A x 22 kg	R410A x 25 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



265,0 – 270,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-2650WV2GN1-E	MV6-2700WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	265,0	270,0
	Input power	kW	89,50	93,10
	EER	kW/kW	2,96	2,90
	SEER	kW/kW	5,96	5,90
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	265,0	270,0
	Input power	kW	74,4	77,1
	COP	kW/kW	3,56	3,50
	SCOP	kW/kW	3,98	3,98
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 72	43 ~ 72
Sound power level		dB(A)	94	94
Refrigerant piping diameter	Liquid	mm	Ø25,4	Ø25,4
	Gas	mm	Ø50,8	Ø50,8

Model			MV6-850WV2GN1-E	MV6-900WV2GN1-E	MV6-900WV2GN1-E	MV6-900WV2GN1-E	MV6-900WV2GN1-E	MV6-900WV2GN1-E
Outdoor diameter	Width x height x depth	mm	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850	1730 × 1830 × 850
Net weight		kg	475	475	475	475	475	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	24000	24000	24000	24000	24000	24000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2	0.92×2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 25 kg	R410A x 25 kg	R410A x 25 kg	R410A x 25 kg	R410A x 25 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

REVERSIBLE HEAT PUMP



25,2 – 40,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-252WV2GN1-EH	MV6-280WV2GN1-EH	MV6-335WV2GN1-EH	MV6-400WV2GN1-EH
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	25,2	28,0	33,5	40,0
	Input power	kW	5,30	6,30	8,70	9,90
	EER	kW/kW	4,75	4,45	3,85	4,05
	SEER	kW/kW	7,70	7,54	7,28	6,22
Temperature range for cooling		°C	-25 ~ 54	-25 ~ 54	-25 ~ 54	-25 ~ 54
Rated heating capacity		kW	25,2	28,0	33,5	40,0
	Input power	kW	4,6	5,2	6,6	8,5
	COP	kW/kW	5,50	5,40	5,10	4,71
	SCOP	kW/kW	4,17	4,17	4,57	4,31
Temperature range for heating		°C	-30 ~ 24	-30 ~ 24	-30 ~ 24	-30 ~ 24
Connectable indoor units	Total capacity		50% ~ 130%	50% ~ 130%	50% ~ 130%	50% ~ 130%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 58	43 ~ 58	43 ~ 60	43 ~ 62
Sound power level		dB(A)	78	78	81	85
Refrigerant piping diameter	Liquid	mm	Ø12.7	Ø12.7	*Ø15.9/12.7	Ø15.9
	Gas	mm	Ø25.4	Ø25.4	*Ø28.6/25.4	Ø31.8
Outdoor diameter	Width x height x depth	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x850
Net weight		kg	227	227	227	277
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	11000	11000	13000
	Type x Amount		Axial x 1	Axial x 1	Axial x 1	Axial x 1
	Motor power	kW	0,56	0,56	0,56	0,92
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



45,0 - 61,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-450WV2GN1-EH	MV6-500WV2GN1-EH	MV6-560WV2GN1-EH	MV6-615WV2GN1-EH
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	45,0	50,0	56,0	61,5
	Input power	kW	12,00	12,50	15,10	18,40
	EER	kW/kW	3,75	4,00	3,71	3,34
	SEER	kW/kW	5,92	6,85	6,54	6,35
Temperature range for cooling		°C	-25 ~ 54	-25 ~ 54	-25 ~ 54	-25 ~ 54
Rated heating capacity		kW	45,0	50,0	56,0	61,5
	Input power	kW	9,8	10,6	12,7	15,0
	COP	kW/kW	4,59	4,72	4,41	4,10
	SCOP	kW/kW	4,31	3,80	3,80	3,80
Temperature range for heating		°C	-30 ~ 24	-30 ~ 24	-30 ~ 24	-30 ~ 24
Connectable indoor units	Total capacity		50% ~ 130%	50% ~ 130%	50% ~ 130%	50% ~ 130%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 65	43 ~ 65	43 ~ 66	43 ~ 66
Sound power level		dB(A)	88	88	88	88
Refrigerant piping diameter	Liquid	mm	Ø15.9	*Ø19.1/15.9	Ø19.1	Ø19.1
	Gas	mm	Ø31.8	Ø31.8	Ø31.8	Ø31.8
Outdoor diameter	Width x height x depth	mm	1340x1635x850	1340x1635x825	1340x1635x825	1340x1635x825
Net weight		kg	277	348	348	348
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	13000	17000	17000	17000
	Type x Amount		Axial x 1	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,92	0,56 x2	0,56 x2	0,56 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 17 kg	R410A x 17 kg	R410A x 17 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



67,0 – 78,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-670WV2GN1-EH	MV6-730WV2GN1-EH	MV6-785WV2GN1-EH
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	67,0	73,0	78,5
	Input power	kW	18,10	20,90	24,20
	EER	kW/kW	3,70	3,49	3,24
	SEER	kW/kW	7,00	6,51	6,22
Temperature range for cooling		°C	-25 ~ 54	-25 ~ 54	-25 ~ 54
Rated heating capacity		kW	67,0	73,0	78,5
	Input power	kW	14,9	17,6	20,7
	COP	kW/kW	4,50	4,15	3,79
	SCOP	kW/kW	3,95	3,95	3,95
Temperature range for heating		°C	-30 ~ 24	-30 ~ 24	-30 ~ 24
Connectable indoor units	Total capacity		50% ~ 130%	50% ~ 130%	50% ~ 130%
	Max. quantity		up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 67	43 ~ 68	43 ~ 68
Sound power level		dB(A)	89	90	90
Refrigerant piping diameter	Liquid	mm	Ø19.1	*Ø22.2/19.1	*Ø22.2/19.1
	Gas	mm	Ø31.8	Ø31.8	Ø31.8
Outdoor diameter	Width x height x depth	mm	1730x1830x850	1730x1830x850	1730x1830x850
Net weight		kg	430	430	430
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	25000	25000	25000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,92 x2	0,92 x2	0,92 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 22 kg	R410A x 22 kg	R410A x 22 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



85,0 - 90,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-850WV2GN1-EH	MV6-900WV2GN1-EH
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	85,0	90,0
	Input power	kW	27,40	31,00
	EER	kW/kW	3,10	2,90
	SEER	kW/kW	6,10	5,90
Temperature range for cooling		°C	-25 ~ 54	-25 ~ 54
Rated heating capacity		kW	85,0	90,0
	Input power	kW	23,0	25,7
	COP	kW/kW	3,70	3,50
	SCOP	kW/kW	3,98	3,98
Temperature range for heating		°C	-30 ~ 24	-30 ~ 24
Connectable indoor units	Total capacity		50% ~ 130%	50% ~ 130%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 68	43 ~ 68
Sound power level		dB(A)	90	90
Refrigerant piping diameter	Liquid	mm	Ø22.2	Ø22.2
	Gas	mm	*Ø38.1/31.8	*Ø38.1/31.8
Outdoor diameter	Width x height x depth	mm	1730x1830x850	1730x1830x850
Net weight		kg	475	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	24000	24000
	Type x Amount		Axial x 2	Axial x 2
	Motor power	kW	0,92 x2	0,92 x2
Protections	High pressure protection	MPa	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection	
	Compressor		overheating protection, overload protection	
Refrigerant	Type x factory charge		R410A x 25 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



25,2 – 40,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-i252WV2GN1-E	MV6-i280WV2GN1-E	MV6-i335WV2GN1-E	MV6-i400WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	25,2	28,0	33,5	40,0
	Input power	kW	6,19	7,14	8,90	11,00
	EER	kW/kW	4,07	3,92	3,75	3,65
	SEER	kW/kW	7,60	7,45	7,20	6,10
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	25,2	28,0	33,5	40,0
	Input power	kW	5,10	5,77	7,6	9,3
	COP	kW/kW	4,94	4,85	4,40	4,30
	SCOP	kW/kW	4,10	4,10	4,45	4,20
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 58	43 ~ 58	43 ~ 60	43 ~ 62
Sound power level		dB(A)	78	78	81	85
Refrigerant piping diameter	Liquid	mm	Ø12.7	Ø12.7	*Ø15.9/12.7	Ø15.9
	Gas	mm	Ø25.4	Ø25.4	*Ø28.6/25.4	Ø31.8
Outdoor diameter	Width x height x depth	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x850
Net weight		kg	227	227	227	277
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	11000	11000	11000	13000
	Type x Amount		Axial x 1	Axial x 1	Axial x 1	Axial x 1
	Motor power	kW	0,56	0,56	0,56	0,92
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 11 kg	R410A x 11 kg	R410A x 11 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



45,0 - 61,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-i450WV2GN1-E	MV6-i500WV2GN1-E	MV6-i560WV2GN1-E	MV6-i615WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	45,0	50,0	56,0	61,5
	Input power	kW	12,90	14,70	16,00	20,20
	EER	kW/kW	3,50	3,40	3,50	3,05
	SEER	kW/kW	5,90	6,80	6,45	6,25
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	45,0	50,0	56,0	61,5
	Input power	kW	10,7	12,2	13,8	17,6
	COP	kW/kW	4,20	4,10	4,05	3,50
	SCOP	kW/kW	4,20	3,65	3,65	3,65
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 65	43 ~ 65	43 ~ 66	43 ~ 66
Sound power level		dB(A)	88	88	88	88
Refrigerant piping diameter	Liquid	mm	Ø15.9	*Ø19.1/15.9	Ø19.1	Ø19.1
	Gas	mm	Ø31.8	Ø31.8	Ø31.8	Ø31.8
Outdoor diameter	Width x height x depth	mm	1340x1635x850	1340x1635x850	1340x1635x825	1340x1635x825
Net weight		kg	277	295	344	344
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	13000	13000	17000	17000
	Type x Amount		Axial x 1	Axial x 1	Axial x 2	Axial x 2
	Motor power	kW	0,92	0,92	0,56 x2	0,56 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 13 kg	R410A x 17 kg	R410A x 17 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



67,0 – 78,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-i670WV2GN1-E	MV6-i730WV2GN1-E	MV6-i785WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	67,0	73,0	78,5
	Input power	kW	21,60	21,60	24,90
	EER	kW/kW	3,10	3,40	3,15
	SEER	kW/kW	6,84	6,49	6,20
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	67,0	73,0	78,5
	Input power	kW	17,27	18,6	22,5
	COP	kW/kW	3,88	3,93	3,49
	SCOP	kW/kW	3,80	3,80	3,80
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%	50-200%
	Max. quantity		up to 64	up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 67	43 ~ 68	43 ~ 68
Sound power level		dB(A)	89	90	90
Refrigerant piping diameter	Liquid	mm	Ø19.1	*Ø22.2/19.1	*Ø22.2/19.1
	Gas	mm	Ø31.8	Ø31.8	Ø31.8
Outdoor diameter	Width x height x depth	mm	1730x1830x850	1730x1830x850	1730x1830x850
Net weight		kg	407	429	429
Compressor	Type		DC Inverter EVI	DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	25000	25000	25000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,92 x2	0,92 x2	0,92 x2
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 22 kg	R410A x 22 kg	R410A x 22 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software

REVERSIBLE HEAT PUMP



85,0 - 90,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-i850WV2GN1-E	MV6-i900WV2GN1-E
Power supply			380-415V, 3N, 50Hz	380-415V, 3N, 50Hz
Rated cooling capacity		kW	85,0	90,0
	Input power	kW	28,30	32,10
	EER	kW/kW	3,00	2,80
	SEER	kW/kW	6,05	5,87
Temperature range for cooling		°C	-5 ~ 54	-5 ~ 54
Rated heating capacity		kW	85,0	90,0
	Input power	kW	24,3	26,5
	COP	kW/kW	3,50	3,40
	SCOP	kW/kW	3,90	3,90
Temperature range for heating		°C	-25 ~ 24	-25 ~ 24
Connectable indoor units	Total capacity		50-200%	50-200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	43 ~ 68	43 ~ 68
Sound power level		dB(A)	90	90
Refrigerant piping diameter	Liquid	mm	Ø22.2	Ø22.2
	Gas	mm	*Ø38.1/31.8	*Ø38.1/31.8
Outdoor diameter	Width x height x depth	mm	1730x1830x850	1730x1830x850
Net weight		kg	475	475
Compressor	Type		DC Inverter EVI	DC Inverter EVI
Fan	Air-flow rate	m^3/h	24000	24000
	Type x Amount		Axial x 2	Axial x 2
	Motor power	kW	0,92 x2	0,92 x2
Protections	High pressure protection	MPa	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection	
	Compressor		overheating protection, overload protection	
Refrigerant	Type x factory charge		R410A x 25 kg	R410A x 25 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088)
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.
*depending on the selection software







SERIES

V6R

NEW

V6R series presents a further improvement of the heat recovery system. It can simultaneously realize space heating and cooling. Additionally the system can be upgraded with a hydraulic module for the production of domestic hot water, a module for integration with the air-handling unit, air-curtains or fresh air supply.

NEW

V6R

UPGRADED VERSION OF THE V6R HEAT RECOVERY SYSTEM

Simultaneous heating and cooling in one system. Maximum performance and comfort.



VRF Indoor unit



Hydraulic module
(hot water up to 80°C)



AHU KZ Control module





Heat recovery fan



Air-processing /
fresh air supply unit



Mode switch (MS)

COMBINATION TABLE

Type	Total capacity	Available combination			
		VRF IDU[1]	HT hydraulic module	AHU	Fresh air supply units
Only VRF indoor units	50%~200% (single) 50%~150% (2 units) 50%~130% (3 units)	50%~200% (single) 50%~150% (2 units) 50%~130% (3 units)	-	-	-
V6R indoor units + HT hydraulic module	50%~200%	50%~130%	0%~100%[2]	-	-
V6R indoor units + AHU	50%~100%	50%~100%	-	0%~50%[3]	-
V6R indoor units + fresh air supply units	50%~100%	50%~100%	-	-	0%~30%[4]
Only fresh air supply units	50%~100%	-	-	-	-

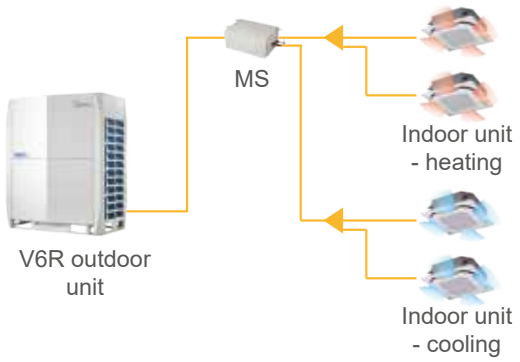
Note:
1. V6R series outdoor units are compatible with II generation VRF indoor units with DC and AC motor.
2. If the HT hydraulic module is connected to the system together with indoor units, the total capacity of the module cannot exceed 100% of the total capacity of the outdoor units, and the capacity index cannot be higher than 200%.
3. If the AHU module is connected to the system together with indoor units, the total capacity of the AHU module cannot exceed 50% of the total capacity of the outdoor units, and the total capacity index cannot exceed 100%.
4. When the fresh-air supply units are connected to the system together with indoor units, the total capacity of the fresh air supply unit cannot exceed 30% of the total capacity of the outdoor units, and the total capacity index cannot exceed 100%.

UNITS FEATURES

COMPREHENSIVE SOLUTIONS

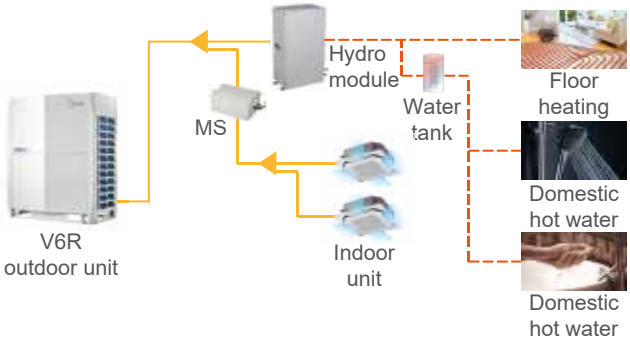
SYSTEM WITH SIMULTANEOUS HEATING AND COOLING

V6R series can simultaneously realize space heating and cooling. It is possible to obtain maximum energy efficiency by redirecting the heat discharged from indoor units during cooling mode into spaces that require heating.



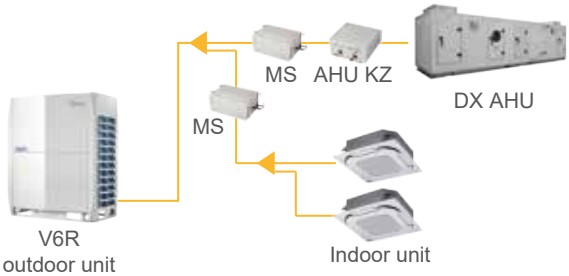
SOLUTION FOR HOT WATER

It is also possible to connect Midea hydraulic module to the V6R outdoor units, in order to produce domestic hot water in the temperature range from 25°C to 80°C.



SOLUTION FOR AIR-HANDLING UNITS

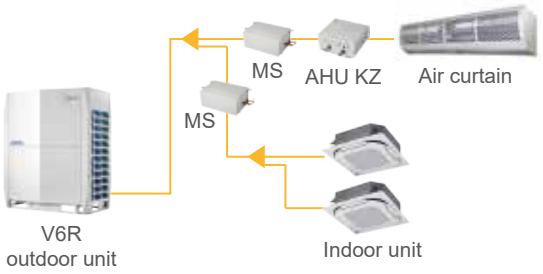
V6R outdoor unit can be connected to the DX AHU unit in order to provide heating/cooling in large rooms. DX AHU unit can be used independently or in connection with other typees of indoor units.



Model	AHUKZ-00D	AHUKZ-01D	AHUKZ-02D	AHUKZ-03D
Power supply [V/phase/Hz]	220-240/1/50 (60)			
Capacity range of connectable indoor units [kW]	2,2-9	9-20	20-36	36-56
Maximum number of units in combination	1	4	4	4
Dimensions (width x height x depth)	393x341x125			
Weight [kg]	5,6	5,6	6,1	6,1

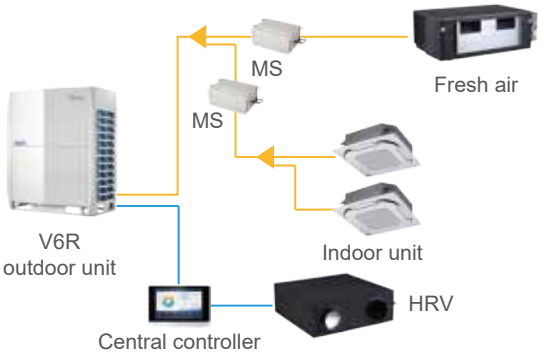
SOLUTION **FOR AIR CURTAINS**

V6R outdoor unit can be connected with an air curtain in order to provide air separation during opening of the door.



SOLUTION **FOR FRESH AIR**

It is possible to connect an air-processing unit to the V6R outdoor unit, that provides fresh air and treats cooling/ heating air in the rooms. The centralized system can include also the heat recovery ventilation (HRV).



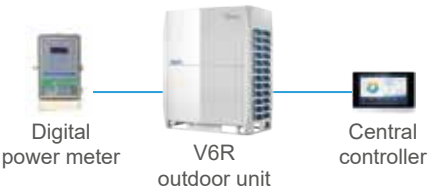
COMPLEX CONTROL

V6R system can be controlled with many typees of controllers: individual, group or central controller, computer/network and BMS gateway.



MANAGEMENT OF THE ELECTRICITY BILLS

The controllers use the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equally divided among building occupants. The results can be exported to Excel sheets.

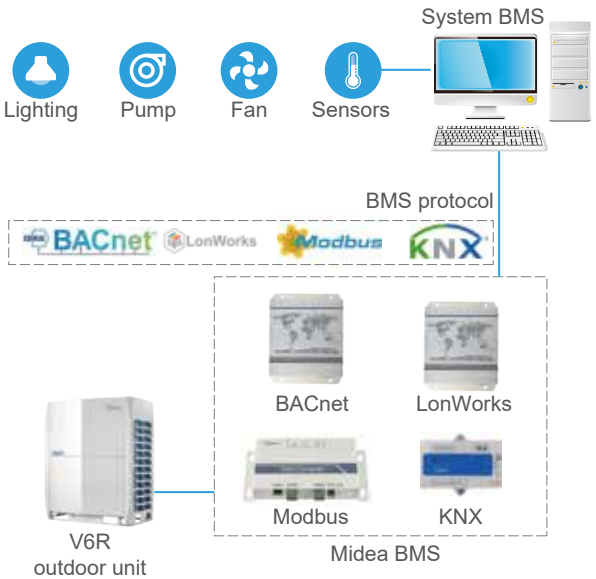



Electricity charges


Energy statistics

SMART BMS MANAGEMENT AND CONTROL

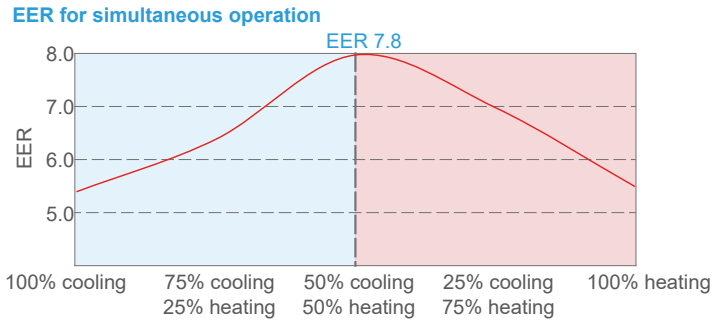
V6R system can be integrated with the building management systems, providing monitoring of the air-conditioning, lighting, energy, firefighting systems, access and safety systems. Midea gateways provide a full compatibility with the leading communication protocols: BACnet, LonWorks, Modbus and KNX.



HIGH EFFICIENCY

HEAT RECOVERY, MAXIMUM ENERGY SAVINGS

V6R heat recovery system can simultaneously realize space heating and cooling in single system. Heat recovery is performed by redirecting the heat discharged from indoor units during cooling mode into spaces that require heating. As a result, the energy efficiency is maximised and the electricity charges are reduced. High efficiency is also obtained at partial load (ERR up to 7,8 for 8HP units).



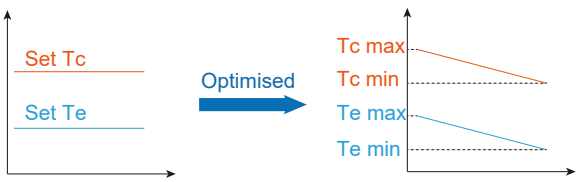
EER ratio in simultaneous cooling and heating mode are based on the following conditions: outdoor temperature 7°CDB/6°CWB, indoor temperature 27°CDB/ 19°CWB for cooling, indoor temperature 20°CDB for heating.

ENERGY MANAGEMENT SYSTEM (EMS)

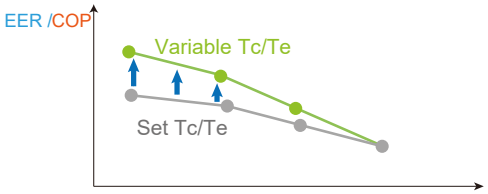
The unit has an advanced energy management system, thanks to the intelligent, automatic refrigerant temperature control. The system can automatically increase comfort and energy efficiency, and also provides 7 levels of output performance in response to temporary disruptions in the energy supply.

Intelligent, automatic refrigerant temperature control

The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature, in order to maximize the comfort and energy efficiency. The performance is controlled by the inverter compressor and floating refrigerant temperature, to obtain the highest seasonal efficiency. Seasonal efficiency is increased by 30%.



Tc - condensing temperature
Te - evaporating temperature



7 poziomów zarządzania energią
With the integration of EMS, in case of temporary electricity supply restrictions, V6R system supports 7 levels of energy management, whch can be set to output 40-100% capacity.

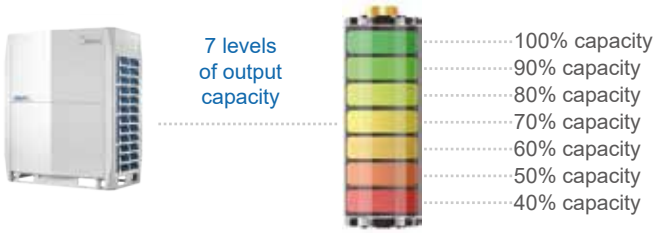
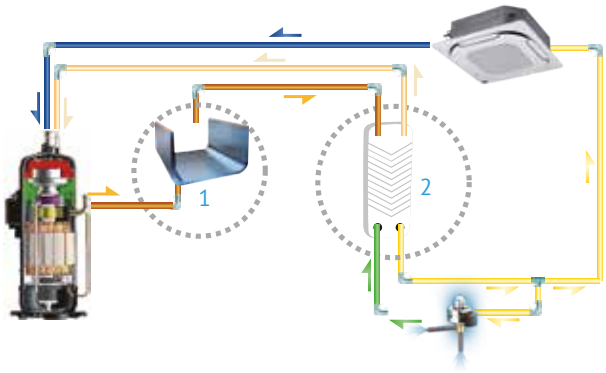


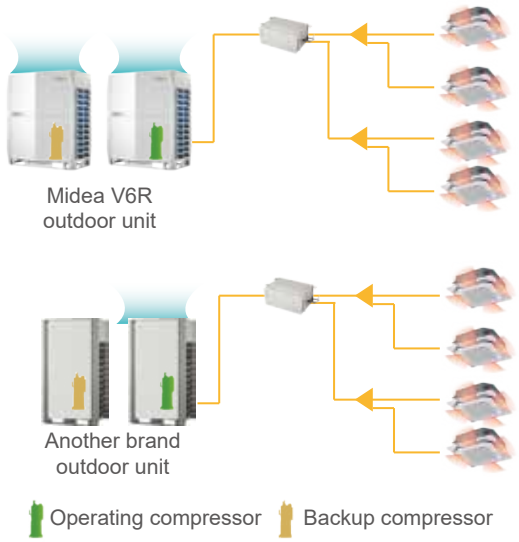
PLATE **HEAT EXCHANGER (PHE) – SUBCOOLING**

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling and improves energy efficiency by 10%.



INDEPENDENT CONTROL OF THE **HEAT EXCHANGER AND COMPRESSOR**

In cooling and heating mode, in case of a multi-module system, the outdoor heat exchanger and compressor are controlled independently, in order to improve energy efficiency. This means, that even if the outdoor unit's compressor does not operate, it is possible to use this unit's coil for the process of heat exchange. This function can make maximum use of the outdoor heat exchanger in order to improve the heat exchange efficiency.



WIDE RANGE OF APPLICATION

WIDE CAPACITY RANGE

Starting at 8HP, capacity increases in 2HP increments up to 54HP, which makes it the perfect solution for small and large building.

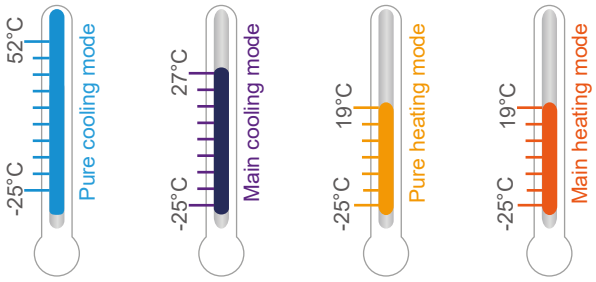


22.4 - 33.5 kW | 40.0 - 50.0 kW | 56.0 - 100.0 kW | 107.0 - 150.0 kW

WIDE OPERATION RANGE

V6R system has a wide operation range in cooling, heating and in simultaneously cool and heat mode.

Pure cooling mode: -25°C~52°CDB
Main cooling mode (mixed mode): -25°C ~27°C
Pure heating mode: -25°C~19°C WB
Main heating mode (mixed mode): -25°C~19°CDB

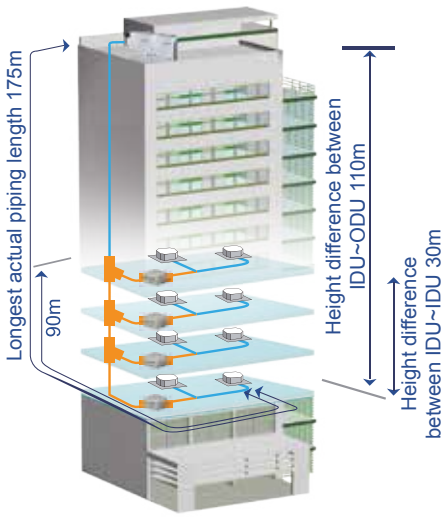


Note: Operation in the mixed mode at outdoor temperature -25°C is accessible after fulfilling a series of conditions.

PIPING LENGTH

V6R system provides the piping of the total length up to 1000 m. Complex facilities enable high degree of system design flexibility.

			Allowed value (m)
Piping length	Total piping length		1000
	Longest piping length	actual length	175
		equivalent length	200
	Piping equivalent length (from the fartest indoor unit to the first branch)		40/90
Height difference	Height difference between indoor/ outdoor unit	outdoor unit below	70
		outdoor unit above	110
	Height difference between indoor units		30



DUTY CYCLING

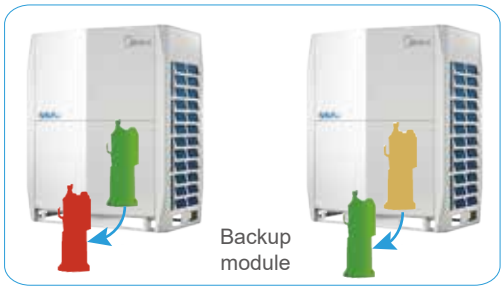
Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



First cycle | Second cycle | Third cycle

BACK UP OPERATION

In multi-module system, if one of the modules fails, the others can continue operation, allowing time for maintenance or repair whilst maintaining comfort.



Operating compressor | Backup compressor | Broken compressor

PRECISE OIL CONTROL TECHNOLOGY

Three stages of oil control technology ensure all outdoor unit compressor's oil is always kept at a safe level, eliminating any compressor oil shortage problems.

- **1st stage:** compressor internal oil separation.
- **2nd stage:** high-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
- **3rd stage:** auto oil return program monitors the running time and system status to ensure reliable oil return.



Inner oil separation in the compressor



High performance, centrifugal oil separator

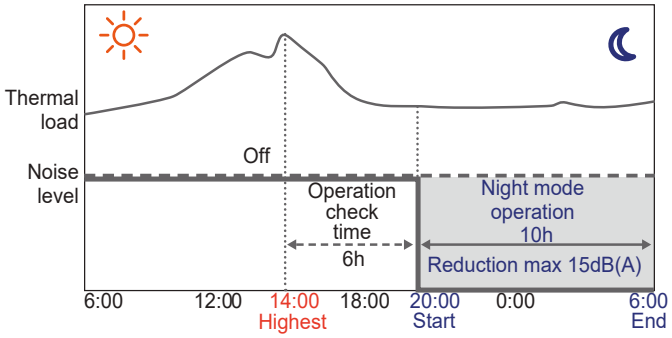


Automatic oil return programme

GREATER COMFORT

NIGHT SILENT MODE

The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.

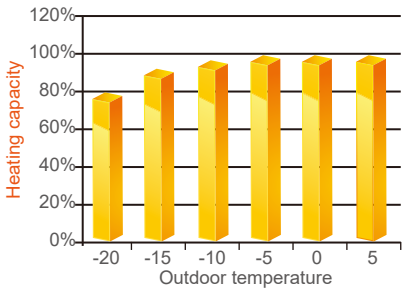


ENHANCED HEATING CAPACITY

Thanks to the direct vapor injection DC inverter compressors, the V6R system can run heating mode stably down to -25°C with high efficiency. Heating capacity is 100% of rated capacity at ambient temperatures as low as -5°C and 90% of rated capacity at -15°C.



EVI compressor



NON STOP HEATING DURING DEFROSTING

Normally, it is necessary to stop the heating operation for the time of defrosting. V6R units give the opportunity of uninterrupted operation in heating mode, even during defrosting operation. In the modular system, units perform defrosting alternately. While one of the units performs defrosting, the second continues operation in heating mode.



During normal heating mode



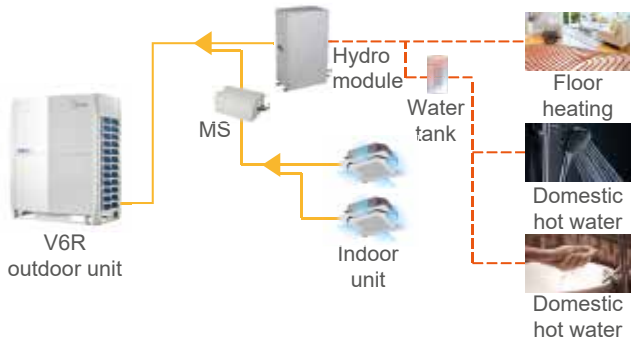
During continuous heating mode



During continuous heating mode

HOT WATER PRODUCTION

V6R system can also produce domestic hot water (at water supply temperature from 25°C to 80°C), while providing air-conditioning system operation in a room. Hot water can be used for floor heating, improving indoor comfort and also as domestic hot water in bathroom and kitchen.

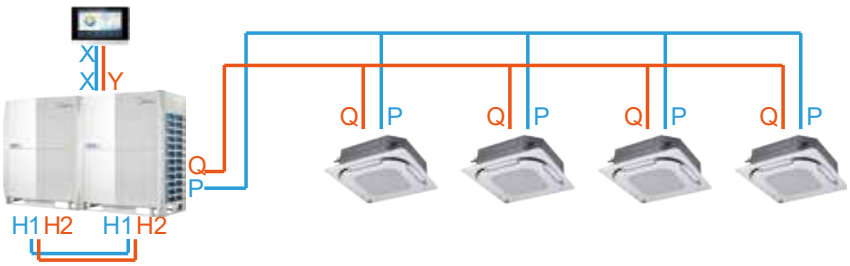


Hydraulic module

Model	SMK-D140HN1-3
Power supply	220-240V/1ph/50(60)Hz
Heating capacity	14kW
Compressor typee	rotary
No. of compressors	1
Heat exchanger typee	plate
No. of heat exchangers	2
Refrigerant typee	R410A/R134a
Dimensions (width x height x depth)	450x795x300 mm
Weight	63 kg

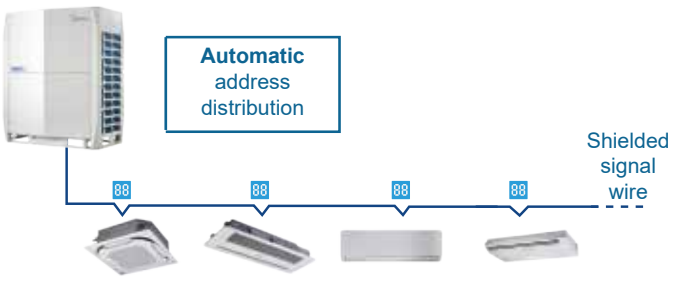
EASY INSTALLATION AND SERVICE

Only one chain of 2-core shielded communication wiring required for indoor unit, outdoor unit and central controller communication.



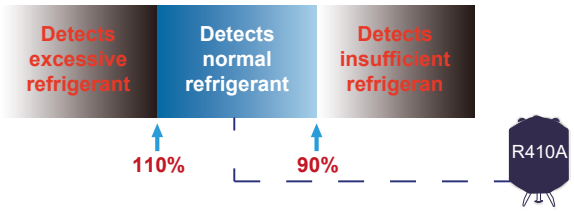
AUTO ADDRESSING

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.



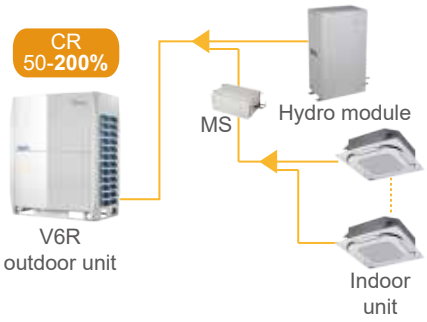
REAL-TIME REFRIGERANT **CHARGE MONITORING**

The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. V6R outdoor unit can detect excessive or insufficient refrigerant charge, to ensure consistent performance.



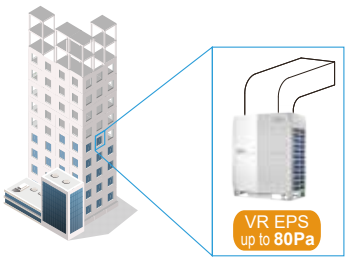
TOTAL CAPACITY INDEX **INCREASED TO 200%**

In specific conditions, installation of the V6R system enables connection of units with the total capacity index equal to 200% of outdoor unit capacity.



EXTERNAL **STATIC PRESSURE**

Outdoor unit static pressure (ESP) can be increased up to 80Pa, what facilitates unit installation on any floor of the high rise building or on a balcony.



MULTIFUNCTIONAL PCB

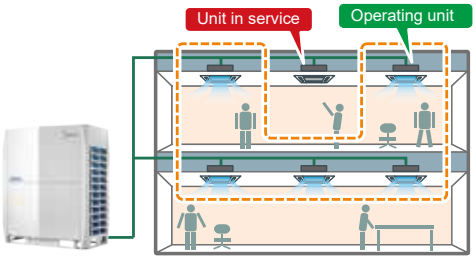
An external , multifunctional small PCB can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of the last 30 minutes' operating record.





EASY MAINTENANCE

The unit is equipped with maintenance function, which enables to turn a single indoor unit off, without discontinuing operation of the whole VRF system. This function is very useful during maintenance period, because it ensures the operation of the whole air-conditioning system during maintenance of one of the indoor units.



INTELLIGENT MS-BOX

Heat recovery V6R system can simultaneously perform heating and cooling operation with use of an intelligent MS-Box. The MS-Box switches the operation mode according to user requirements and at the same time maximises operating efficiency in heating and cooling mode.



MS01 typee single port branch box

- compact and light to install
- no drain piping needed
- connect up to 8 indoor units, capacity up to 32kW
- double direction connection for refrigerant and drain piping to improve installation flexibility
- electric ball valve control precision is up to 3200 stages (total capacity up to 32kW):
  - » option of complete valve closing
  - » it can be open and close in stages while maintaining low noise level
  - » option to operate in cooling mode at temperature 15°C
  - » accurate refrigerant flow adjustment
- safe and reliable operation thanks to the real-time refrigerant leakage detection (leakage can be located accurately what facilitates maintenance)

MS04-6-8-10-12 typee branch box

- compact and light to install
- low noise operation
- up to 5 indoor units can be connected to one port
- up to 64 units can be connected to one (MS12) box
- up to 16kW capacity available per port
- connect up to 28kW by combining two ports

Model		MS01/N1-D[1]	MS04/N1-D	MS06/N1-D	MS08/N1-D	MS10/N1-D	MS12/N1-D
Power supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Max. no. of outdoor unit groups		1	4	6	8	10	12
Max. no. of units per group		8	5	5	5	5	5
Max. no. of indoor units		8	20	30	40	47	47
Max. capacity for each group of outdoor units	kW	32	16	16	16	16	16
Max. capacity of all connected indoor units	kW	32	49	63	85	85	85
Sound pressure level[2]	dB(A)	40	44	45	47	47	47
Sound power level[2]	dB(A)	60	63	65	65	65	65
Dimensions (width x height x depth)	mm	440x195x296	668x250x574	668x250x574	974x250x574	974x250x574	974x250x574
Weight	kg	10,5	33	36	48	51	54

Note:
1. MS01 is used for cooling at low temperatures.
2. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.

V6R STANDARD SERIES

HEAT RECOVERY



22,4 – 33,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R252WV2RN1	MV6-R280WV2RN1	MV6-R335WV2RN1
Horsepower HP/combination			8HP	10HP	12HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	22.4	28.0	33.5
	Input power	kW	5.25	7.18	8.64
	EER		4.27	3.90	3.88
	SEER		7.72	7.56	7.30
Heating[2] (rated)	Capacity	kW	22.4	28.0	33.5
	Input power	kW	3.96	5.46	6.57
	COP		5.66	5.13	5.10
	SCOP		4.18	4.25	4.60
Heating[2] (maximum)	Capacity	kW	25.0	31.5	37.5
	Input power	kW	4.69	7.12	9.48
	COP		5.33	4.42	3.96
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		1	1	1
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		1	1	1
	Motor power	kW	0.92	0.92	0.92
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	9000	9500	10000
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	8	8	8
Piping connections[4]	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7
	Gas pipe - low pressure	mm	Ø25.4	Ø25.4	Ø25.4
	Gas pipe - high pressure	mm	Ø19.1	Ø19.1	Ø19.1
Sound pressure level[5]		dB(A)	58	58	60
Sound power level[5]		dB(A)	78	78	81
Net dimensions (width x height x depth)		mm	990x1635x790	990x1635x790	990x1635x790
Gross dimensions (width x height x depth)		mm	1090x1805x860	1090x1805x860	1090x1805x860
Net weight		kg	232	232	232
Gross weight		kg	248	248	248
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m, the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m, the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.
6. Cooling in low temperatures from -25°C to -5°C available for MS01.

HEAT RECOVERY



40,0 – 50,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R400WV2RN1	MV6-R450WV2RN1	MV6-R500WV2RN1
Horsepower HP/combination			14HP	16HP	18HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	40.0	45.0	50.0
	Input power	kW	9.83	12.0	13.81
	EER		4.07	3.75	3.62
	SEER		6.70	6.67	6.88
Heating[2] (rated)	Capacity	kW	40.0	45.0	50.0
	Input power	kW	8.26	9.78	11.9
	COP		4.84	4.60	4.20
	SCOP		4.35	4.33	4.20
Heating[2] (maximum)	Capacity	kW	45.0	50.0	56.0
	Input power	kW	9.78	12.26	14.77
	COP		4.09	4.08	3.79
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		1	1	1
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		2	2	2
	Motor power	kW	0.92x2	0.92x2	0.92x2
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	14000	14900	15800
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	10	10	10
Piping connections[4]	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9
	Gas pipe - low pressure	mm	Ø28.6	Ø28.6	Ø28.6
	Gas pipe - high pressure	mm	Ø22.2	Ø22.2	Ø22.2
Sound pressure level[5]		dB(A)	61	64	65
Sound power level[5]		dB(A)	81	88	88
Net dimensions (width x height x depth)		mm	1340x1635x825	1340x1635x825	1340x1635x825
Gross dimensions (width x height x depth)		mm	1405x1805x910	1405x1805x910	1405x1805x910
Net weight		kg	300	300	300
Gross weight		kg	325	325	325
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m. the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m. the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor..
6. Cooling in low temperatures from -25°C to -5°C available for MS01.

V6R STANDARD SERIES

HEAT RECOVERY



56,0 - 68,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R560WV2RN1	MV6-R615WV2RN1	MV6-R680WV2RN1
Horsepower HP/combination			10HP+10HP=20HP	10HP+12HP=22HP	10HP+14HP=24HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	56.0	61.5	68.0
	Input power	kW	14.36	15.82	17.01
	EER		3.90	3.89	4.00
	SEER		7.56	7.42	7.05
Heating[2] (rated)	Capacity	kW	56.0	61.5	68.0
	Input power	kW	10.92	12.03	13.72
	COP		5.13	5.11	4.96
	SCOP		4.25	4.44	4.31
Heating[2] (maximum)	Capacity	kW	63.0	69.0	76.5
	Input power	kW	14.24	16.6	16.9
	COP		4.42	4.16	4.53
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		2	2	2
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		2	2	3
	Motor power	kW	0.92x2	0.92x2	0.92x3
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	19000	19500	23500
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	16	16	18
Piping connections[4]	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9
	Gas pipe - low pressure	mm	Ø28.6	Ø28.6	Ø34.9
	Gas pipe - high pressure	mm	Ø28.6	Ø28.6	Ø28.6
Sound pressure level[5]		dB(A)	61	62	63
Sound power level[5]		dB(A)	81	83	83
Net dimensions (width x height x depth)		mm	(990x1635x790)x2	(990x1635x790)x2	990x1635x790 1340x1635x825
Gross dimensions (width x height x depth)		mm	(1090x1805x860)x2	(1090x1805x860)x2	1090x1805x860 1405x1805x910
Net weight		kg	232x2	232x2	232+300
Gross weight		kg	248x2	248x2	248+325
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m, the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m, the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.
6. Cooling in low temperatures from -25°C to -5°C available for MS01.

HEAT RECOVERY



73,5 – 83,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R735WV2RN1	MV6-R785WV2RN1	MV6-R835WV2RN1
Horsepower HP/combination			12HP+14HP=26HP	12HP+16HP=28HP	12HP+18HP=30HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	73.5	78.5	83.5
	Input power	kW	18.46	20.64	22.45
	EER		3.98	3.80	3.72
	SEER		6.97	6.94	7.05
Heating[2] (rated)	Capacity	kW	73.5	78.5	83.5
	Input power	kW	14.83	16.35	18.47
	COP		4.96	4.80	4.52
	SCOP		4.46	4.45	4.36
Heating[2] (maximum)	Capacity	kW	82.5	87.5	93.5
	Input power	kW	19.27	21.74	24.25
	COP		4.28	4.02	3.86
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		2	2	2
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		3	3	3
	Motor power	kW	0.92x3	0.92x3	0.92x3
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	24000	24900	25800
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	18	18	18
Piping connections[4]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe - low pressure	mm	Ø34.9	Ø34.9	Ø34.9
	Gas pipe - high pressure	mm	Ø28.6	Ø28.6	Ø28.6
Sound pressure level[5]		dB(A)	64	65	66
Sound power level[5]		dB(A)	84	89	89
Net dimensions (width x height x depth)		mm	990x1635x790 1340x1635x825	990x1635x790 1340x1635x825	990x1635x790 1340x1635x825
Gross dimensions (width x height x depth)		mm	1090x1805x860 1405x1805x910	1090x1805x860 1405x1805x910	1090x1805x860 1405x1805x910
Net weight		kg	232+300	232+300	232+300
Gross weight		kg	248+325	248+325	248+325
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m. the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m. the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.
6. Cooling in low temperatures from -25°C to -5°C available for MS01.

HEAT RECOVERY



90,0 – 100,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R900WV2RN1	MV6-R950WV2RN1	MV6-R1000WV2RN1
Horsepower HP/combination			16HP+16HP=32HP	16HP+18HP=34HP	18HP+18HP=36HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	90.0	95.0	100.0
	Input power	kW	24	25.81	28.72
	EER		3.75	3.68	3.48
	SEER		6.67	6.78	6.88
Heating[2] (rated)	Capacity	kW	90.0	95.0	100.0
	Input power	kW	19.57	21.69	21.83
	COP		4.60	4.38	4.58
	SCOP		4.33	4.26	4.20
Heating[2] (maximum)	Capacity	kW	100.0	106.0	126.0
	Input power	kW	24.52	27.03	29.54
	COP		4.08	3.92	4.27
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		2	2	2
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		4	4	4
	Motor power	kW	0.92x4	0.92x4	0.92x4
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	29800	30700	31600
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	20	20	20
Piping connections[4]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe - low pressure	mm	Ø34.9	Ø34.9	Ø34.9
	Gas pipe - high pressure	mm	Ø28.6	Ø28.6	Ø28.6
Sound pressure level[5]		dB(A)	67	68	68
Sound power level[5]		dB(A)	91	91	91
Net dimensions (width x height x depth)		mm	(1340x1635x825)x2	(1340x1635x825)x2	(1340x1635x825)x2
Gross dimensions (width x height x depth)		mm	(1405x1805x910)x2	(1405x1805x910)x2	(1405x1805x910)x2
Net weight		kg	300x2	300x2	300x2
Gross weight		kg	325x2	325x2	325x2
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m. the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m. the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.
6. Cooling in low temperatures from -25°C to -5°C available for MS01.

HEAT RECOVERY



107,0 – 118,5 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R1070WV2RN1	MV6-R1120WV2RN1	MV6-R1185WV2RN1
Horsepower HP/combination			12HP+12HP+14HP=38HP	12HP+12HP+16HP=40HP	12HP+14HP+16HP=42HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	107.0	112.0	118.5
	Input power	kW	27.1	29.27	30.46
	EER		3.95	3.83	3.89
	SEER		7.08	7.05	6.86
Heating[2] (rated)	Capacity	kW	107.0	112.0	118.5
	Input power	kW	21.4	22.92	24.62
	COP		5.00	4.89	4.81
	SCOP		4.51	4.49	4.41
Heating[2] (maximum)	Capacity	kW	120.0	125.0	132.5
	Input power	kW	28.75	31.23	31.53
	COP		4.17	4.00	4.20
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		3	3	3
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		4	4	4
	Motor power	kW	0.92x4	0.92x4	0.92x5
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	34000	34900	38900
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	26	26	26
Piping connections[4]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe - low pressure	mm	Ø41.3	Ø41.3	Ø41.3
	Gas pipe - high pressure	mm	Ø34.9	Ø34.9	Ø34.9
Sound pressure level[5]		dB(A)	65	67	67
Sound power level[5]		dB(A)	86	89	89
Net dimensions (width x height x depth)		mm	(990x1635x790)x2 1340x1635x825	(990x1635x790)x2 1340x1635x825	990x1635x790 (1340x1635x825)x2
Gross dimensions (width x height x depth)		mm	(1090x1805x860)x2 1405x1805x910	(1090x1805x860)x2 1405x1805x910	1090x1805x860 (1405x1805x910)x2
Net weight		kg	232x2+300	232x2+300	232+300x2
Gross weight		kg	248x2+325	248x2+325	248+325x2
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m. the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m. the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.
6. Cooling in low temperatures from -25°C to -5°C available for MS01.

HEAT RECOVERY



123,5 – 135,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R1235WV2RN1	MV6-R1300WV2RN1	MV6-R1350WV2RN1
Horsepower HP/combination			12HP+16HP+16HP=44HP	14HP+16HP+16HP=46HP	16HP+16HP+16HP=48HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	123.5	130.0	135.0
	Input power	kW	32.64	33.83	36.00
	EER		3.78	3.84	3.75
	SEER		6.84	6.68	6.67
Heating[2] (rated)	Capacity	kW	123.5	130.0	135.0
	Input power	kW	26.13	27.83	29.35
	COP		4.73	4.67	4.60
	SCOP		4.40	4.34	4.33
Heating[2] (maximum)	Capacity	kW	137.5	145.0	150.0
	Input power	kW	34.01	34.31	36.79
	COP		4.04	4.23	4.08
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		3	3	3
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		5	6	6
	Motor power	kW	0.92x5	0.92x6	0.92x6
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	39800	43800	44700
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	28	30	30
Piping connections[4]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe - low pressure	mm	Ø41.3	Ø41.3	Ø41.3
	Gas pipe - high pressure	mm	Ø34.9	Ø34.9	Ø34.9
Sound pressure level[5]		dB(A)	68	68	69
Sound power level[5]		dB(A)	91	91	93
Net dimensions (width x height x depth)		mm	990x1635x790 (1340x1635x825)x2	(1340x1635x825)x3	(1340x1635x825)x3
Gross dimensions (width x height x depth)		mm	1090x1805x860 (1405x1805x910)x2	(1405x1805x910)x3	(1405x1805x910)x3
Net weight		kg	232+300x2	300x3	300x3
Gross weight		kg	248+325x2	325x3	325x3
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m. the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m. the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.
6. Cooling in low temperatures from -25°C to -5°C available for MS01.

HEAT RECOVERY



140,0 – 150,0 kW

TECHNICAL SPECIFICATIONS

Model			MV6-R1400WV2RN1	MV6-R1450WV2RN1	MV6-R1500WV2RN1
Horsepower HP/combination			16HP+16HP+18HP=50HP	16HP+18HP+18HP=52HP	18HP+18HP+18HP=54HP
Power supply		V/ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling[1]	Capacity	kW	140.0	145.0	150.0
	Input power	kW	37.81	39.62	41.44
	EER		3.70	3.66	3.62
	SEER		6.75	6.81	6.88
Heating[2] (rated)	Capacity	kW	140.0	145.0	150.0
	Input power	kW	31.47	33.59	35.71
	COP		4.45	4.32	4.20
	SCOP		4.18	4.24	4.20
Heating[2] (maximum)	Capacity	kW	156.0	162.0	168.0
	Input power	kW	39.29	41.8	44.31
	COP		3.97	3.88	3.79
Connected indoor units	Total capacity		50-200% of outdoor unit capacity		
	Maximum quantity		64	64	64
Compressor	Type		DC inverter	DC inverter	DC inverter
	Amount		3	3	3
Fan	Type		Axial	Axial	Axial
	Motor typee		DC	DC	DC
	Amount		6	6	6
	Motor power	kW	0.92x6	0.92x6	0.92x6
	Static pressure	Pa	0 / 20 / 40 / 60 / 80 (option to choose)		
	Air-flow rate	m^3/h	45600	46500	47400
Refrigerant	Type		R410A	R410A	R410A
	Factory charged	kg	30	30	30
Piping connections[4]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe - low pressure	mm	Ø41.3	Ø41.3	Ø41.3
	Gas pipe - high pressure	mm	Ø34.9	Ø34.9	Ø34.9
Sound pressure level[5]		dB(A)	69	69	70
Sound power level[5]		dB(A)	93	93	93
Net dimensions (width x height x depth)		mm	(1340x1635x825)x3	(1340x1635x825)x3	(1340x1635x825)x3
Gross dimensions (width x height x depth)		mm	(1405x1805x910)x3	(1405x1805x910)x3	(1405x1805x910)x3
Net weight		kg	300x3	300x3	300x3
Gross weight		kg	325x3	325x3	325x3
Ambient temp. range	Cooling[6]	°C (DB)	-25~52	-25~52	-25~52
	Heating	°C (WB)	-25~19	-25~19	-25~19
	Domestic hot water	°C (DB)	-25~43	-25~43	-25~43

Note:
1. Indoor air temperature 27°C DB/19°C WB; outdoor air temperature 35°C DB/24°CWB; length of connected pipes is 7.5m. the height difference is 0.
2. Indoor air temperature 20°C DB/15°C WB; outdoor air temperature 7°C DB/6°CWB; length of connected pipes is 7.5m. the height difference is 0.
3. See combination table 1 – indoor and outdoor units combination limitations.
4. Specified diameters refers to the unit stopping valve.
5. Noise level measured in a semianechoic chamber, at a distance of 1 m from the unit and at a height of 1,3 m from the floor.
6. Cooling in low temperatures from -25°C to -5°C available for MS01.





SERIES

V4 PLUS R

V4 PLUS R series presents heat recovery system designed for effective, simultaneous heating and cooling. This system is suitable for spaces divided into separate zones, where there is a need to operate simultaneously in two modes, in two different parts of the building, according to the individual user preferences.



EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

*Availability until existing stocks are exhausted

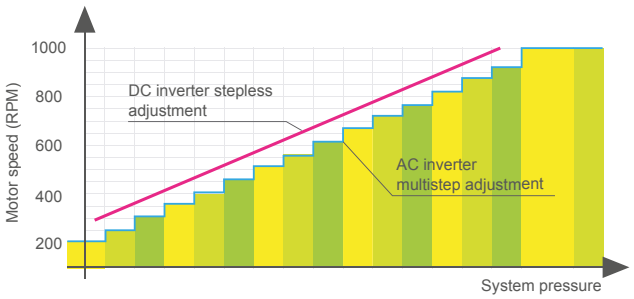
UNITS FEATURES

ADVANCED TECHNOLOGY

HIGH EFFICIENCY DC FAN MOTOR

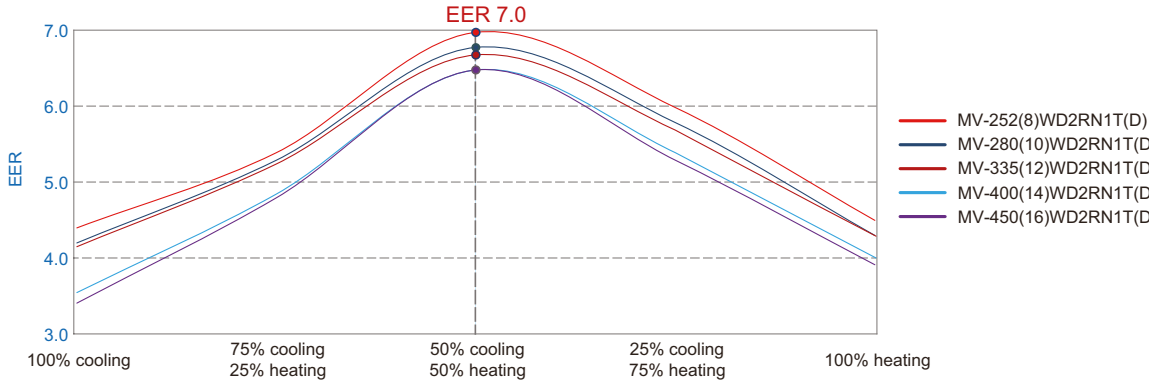
The system controls the speed of the DC fan motor according to the system pressure and system load achieving the minimum power consumption and the highest efficiency.





HIGH ENERGY EFFICIENCY

Heat absorbed from the cooled down rooms is transferred to the heated rooms. This reduces electric energy consumption and significantly lowers the operational costs of the air-conditioning system.



ooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
eating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB

ROTATABLE CONTROL BOX

Structure of the rotating control box is convenient for the inspection and maintenance of the pipeline system and greatly reduces the dismount time of the electric control box.



DC INVERTER COMPRESSOR TECHNOLOGY

Inverter DC controlled compressors operate with 60-120 Hz frequency, that is, in the most efficient range. Owing to this, the efficiency is higher by more than 30%, as compared to the conventional compressors.



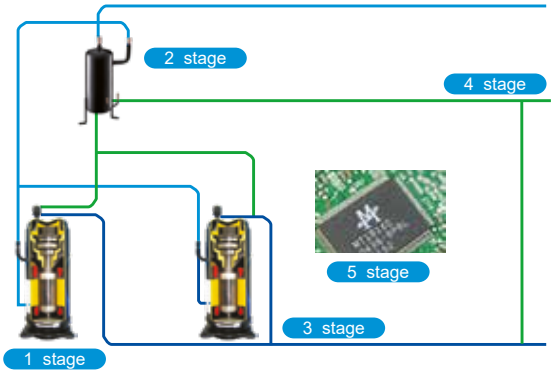
NATURAL **OIL LEVEL BALANCE** IN OUTDOOR UNITS

In refrigerant systems consisting of two and more outdoor units, Midea uses oil balance, which naturally equalises the oil level in each outdoor unit and keeps it on the fixed level, without necessity to stop the unit. In standard applications, during partial load operation, oil aggregates in the operating unit. Standard units, stops cooling or heating operation from time to time and launch oil recovery mode. Midea units, thanks to the oil balance technology, run continuously.

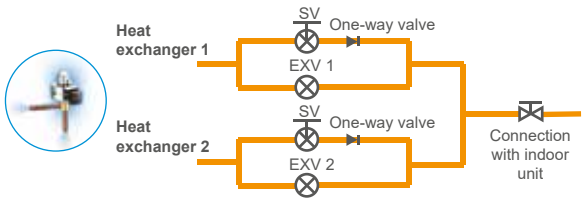
PRECISE OIL CONTROL TECHNOLOGY

5 stages oil control technology ensures all outdoor unit and compressor oil is always kept at a safe level, completely solving any compressor oil shortage problems.

- **1st stage:** compressor internal oil separation,
- **2nd stage:** high efficiency oil separator (separation efficiency up to 99%),
- **3rd stage:** oil balance technology between compressors,
- **4th stage:** oil balance pipes among modules,
- **5th stage:** smart oil return program.

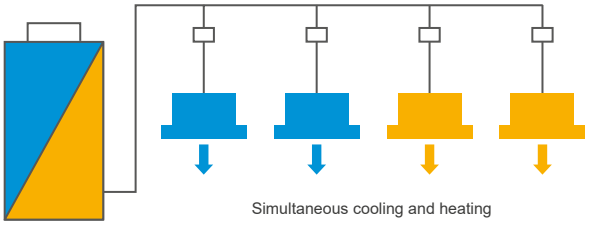


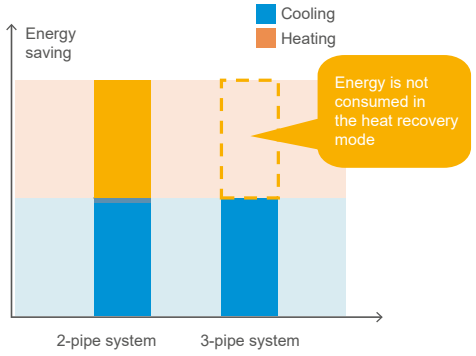
PRECISE SENSOR ADJUSTMENT TECHNOLOGIA



HEAT RECOVERY INCREASES CAPACITY

Simultaneous heating and cooling in different zones means higher energy savings thanks to the heat recovered from one space and transferred to another. This saves up to 50% of costs as compared with conventional heat pump system.

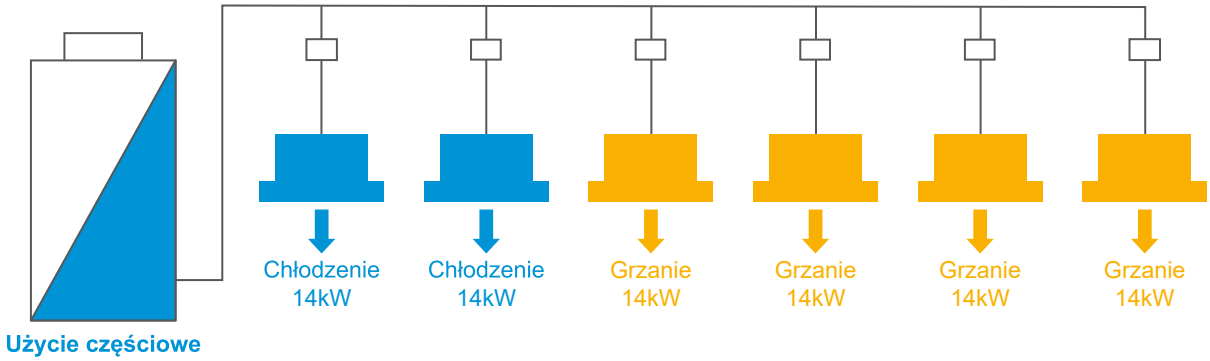




WIDE RANGE OF APPLICATION

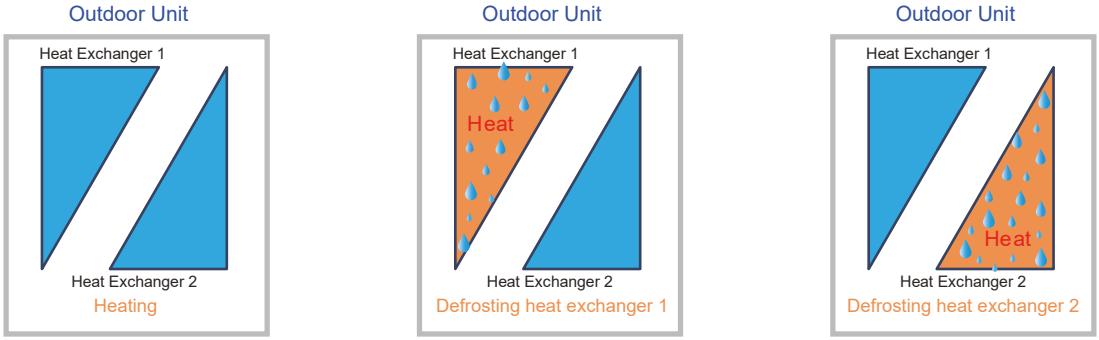
AUTOMATIC HEATING **CAPACITY ADJUSTMENT**

Thanks to the two-part condenser individual design, the unit can distribute a part of evaporator to function as condensing area, according to the heating load requirement to improve the utilization rate of the condenser.



CONTINUOUS HEATING DURING DEFROST OPERATION

Each heat exchanger is defrosted by using heat transferred from one heat exchanger to the other in the outdoor unit. Defrost has no impact on the indoor unit on heating mode

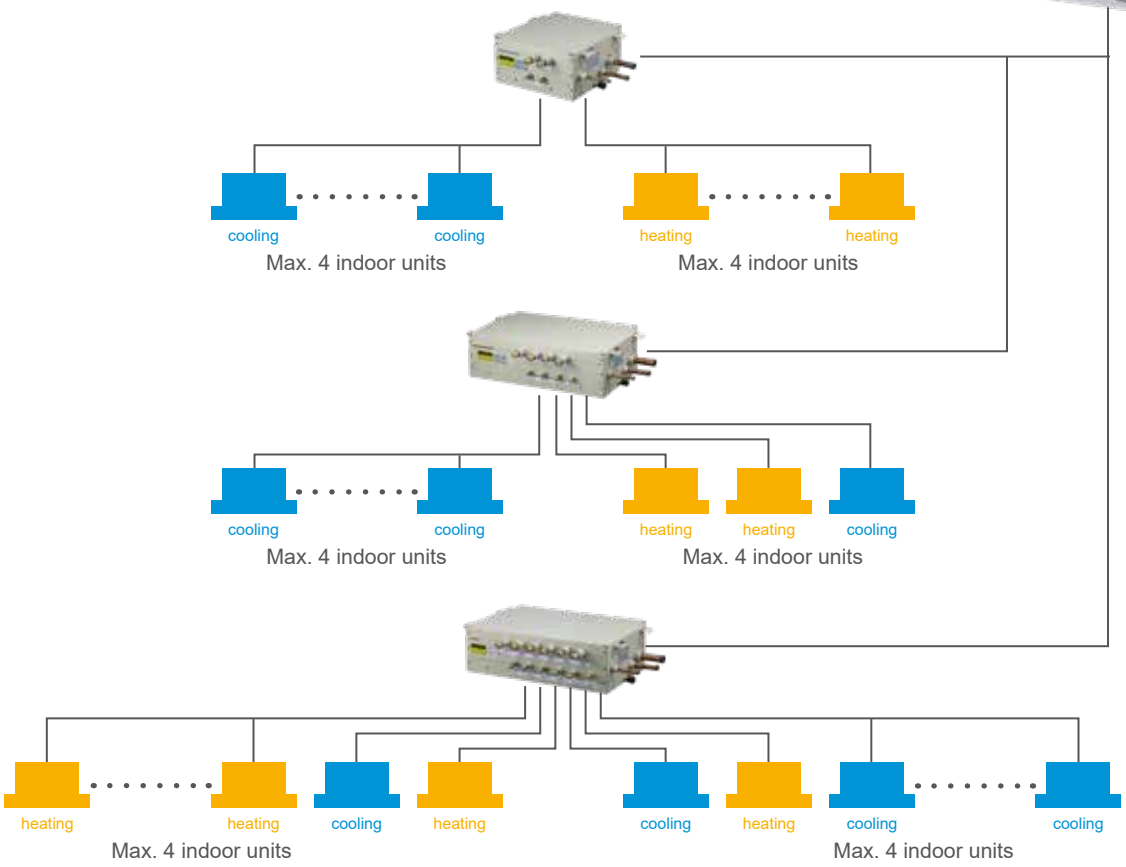


MS TYPE **BRANCH BOX**

The outdoor unit controls operation of each indoor unit group to achieve simultaneous heating and cooling in a single system. This is possible by applying the MS system, which precisely adjust refrigerant flow with use of en electronic expansion valve. The indoor units connected to one MS typee branch box, can run cooling and heating simultaneously.

MS model	Max. no. of all indoor units connected downstream	Total capacity of all indoor units connected downstream	Dimensions (width x height x depth)
MS02/N1-C	8	28kW lub mniej	630×225×500
MS02E/N1-C	1	20~28kW	630×225×500
MS04/N1-C	16	45kW lub mniej	960×225×500
MS04E/N1-C	1	40~56kW	960×225×500
MS06/N1-C	24	45kW lub mniej	960×225×500





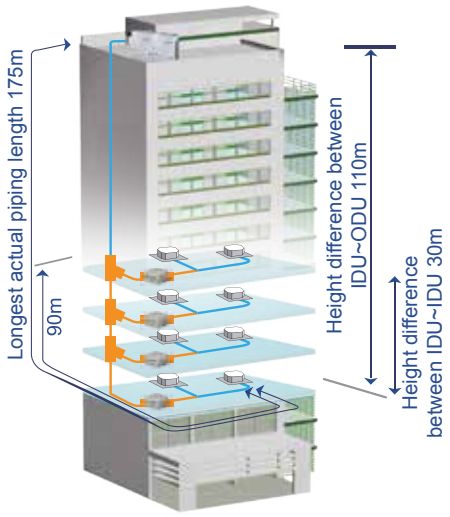
Note:

- No. of each indoor unit group connected downstream should be less than 4.
- Capacity of each indoor unit group connected downstream should be less than 16 kW (only for MS02/N1-C, MS04/N1-C, MS06/N1-C models).

PIPING LENGTH

V4 PLUS R system provides the piping of the total length up to 1000 m. Complex facilities enable high degree of system design flexibility.

			Allowed value (m)
Piping length	Total piping length		1000
	Longest piping length	actual length	175
		equivalent length	200
	Piping equivalent length (from the fartest indoor unit to the first branch)		40/90
Height difference	Height difference between indoor/ outdoor unit	outdoor unit below	90
		outdoor unit above	110
	Height difference between indoor units		30



FLEXIBILITY OF APPLICATION

Recommended temperature range
Stable and safe operation in a wide range of outdoor temperatures.
Cooling mode: -5°C ~ 48°C.
Heating mode: -20°C ~ 24°C.
Simultaneous cooling and heating: -5°C ~ 24°C.

Quiet operation
Sound-insulated structure increased comfort, as it provides the operation of the whole system in the quiet mode with only 42 dB(A).

Simple maintenance
Compatibility with the outdoor unit diagnostics software facilitates detection of operation tendency and identification of solutions in case an error occurs.

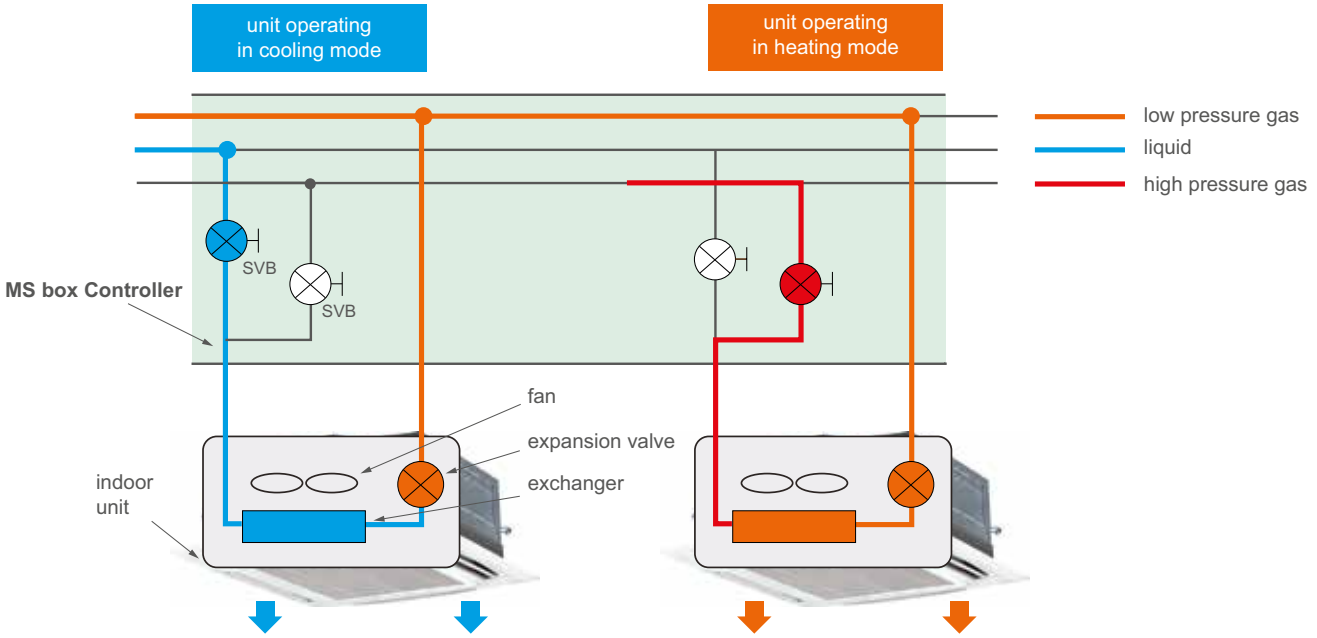
High static pressure
Outdoor unit static pressure can be adjusted up to 60 Pa, suitably for installations in closed spaces.

Wide compatibility
Full compatibility with intelligent Midea systems and BMS gateways: Bacnet, LonWorks, Modbus, KNX EiB.

Powerful IMM management
Internet access function provides control from the remote devices (like laptop or smartphone) through the Internet (LAN r Ethernet), using the web browser.

MS CONTROLLER

MS Controller is a technological heart of the Midea VRF systems – it cooperates with the outdoor unit to provide simultaneous cooling and heating. MC Controller is connected to the outdoor unit with use of 2 refrigerant pipes, depending on the capacity of the connected indoor units.



INDOOR UNIT CONNECTION

MS02/N1-C



MS04/N1-C



MS06/N1-C



MS02E/N1-C
MS04E/N1-C



For several indoor units

MS Model	Max. no of connectable indoor units
MS02/N1-C	8
MS04/N1-C	16
MS06/N1-C	24

For single indoor unit

MS Model	Max. no of connectable indoor units
MS02E/N1-C	1
MS04E/N1-C	1

TECHNICAL SPECIFICATIONS

CONNECTION OF SEVERAL INDOOR UNITS

Model				MS02/N1-C	MS04/N1-C	MS06/N1-C
Power supply				1-phase 220/230/240V 50Hz		
No. of connections				2	4	6
No. of indoor units for each connection				4	4	4
Total no. of indoor units				8	16	24
Max. capacity for the connection			kW	16	16	16
Total capacity of all connected indoor units			kW	≤28	≤45	≤45
Refrigerant piping	Outdoor unit side	Liquid pipe	mm	Ø12,7	Ø15,9	Ø15,9
		High pressure pipe	mm	Ø19,1	Ø22,2	Ø22,2
		Low pressure pipe	mm	Ø25,4	Ø31,8	Ø31,8
	Indoor unit side	Liquid pipe	mm	Ø9,53	Ø9,53	Ø9,53
		Gas pipe	mm	Ø15,9	Ø15,9	Ø15,9
Dimensions (width x height x depth)			mm	630x225x600	960x225x600	960x225x600
Weight			kg	19,5	31,0	35,0

CONNECTION OF SINGLE INDOOR UNIT

Model				MS02E/N1-C	MS04E/N1-C
Power supply				1-phase 220/230/240V 50Hz	
No. of connections				1	1
No. of indoor units for each connection				1	1
Total no. of indoor units				1	1
Total capacity of all connected indoor units			kW	20-28	40-56
Refrigerant piping	Outdoor unit side	Liquid pipe	mm	Ø12,7	Ø15,9
		High pressure pipe	mm	Ø19,1	Ø22,2
		Low pressure pipe	mm	Ø25,4	Ø31,8
	Indoor unit side	Liquid pipe	mm	Ø9,53	Ø9,53
		Gas pipe	mm	Ø15,9	Ø15,9
Dimensions (width x height x depth)			mm	630x225x600	960x225x600
Weight			kg	19,5	31,0

HEAT RECOVERY



50,4 – 53,2 kW

TECHNICAL SPECIFICATIONS

Model			MV-504WD2RN1T(D)		MV-532WD2RN1T(D)	
Power supply			380-415V, 3N, 50/60 Hz		380-415V, 3N, 50/60 Hz	
Rated cooling capacity		kW	50,4		53,2	
	Input power	kW	11,94		12,72	
	EER	kW/kW	4,22		4,18	
	SEER	kW/kW	5,90		5,91	
Temperature range for cooling		°C	-5 ~ 48		-5 ~ 48	
Rated heating capacity		kW	54,00		58,5	
	Input power	kW	10,04		11,23	
	COP	kW/kW	5,38		5,21	
	SCOP	kW/kW	4,15		4,15	
Temperature range for heating		°C	-20 ~ 24		-20 ~ 24	
Connectable indoor units	Total capacity		up to 200%		up to 200%	
	Max. quantity		up to 64		up to 64	
Sound pressure level		dB(A)	60		61	
Refrigerant piping diameter	Liquid	mm	Ø9.53		Ø15.9	
	Gas (low pressure)	mm	Ø22.2		Ø31.8	
	Gas (high pressure)	mm	Ø19.1		Ø28.6	
Model			**MV-252(8)WD2RN1T(D)**	**MV-252(8)WD2RN1T(D)**	**MV-252(8)WD2RN1T(D)**	**MV-280(10)WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	255	255
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	12000	12000	12000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,52	0,52
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

Configuration recommended by the manufacturer. Outdoor units can be combined into nonstandard configurations.
More information can be obtained from our Sales and Technical Adviser.

HEAT RECOVERY



58,7 – 61,5 kW

TECHNICAL SPECIFICATIONS

Model			MV-587WD2RN1T(D)	MV-615WD2RN1T(D)
Power supply			380-415V, 3N, 50/60 Hz	380-415V, 3N, 50/60 Hz
Rated cooling capacity		kW	58,7	61,5
	Input power	kW	15,25	16,03
	EER	kW/kW	3,85	3,84
	SEER	kW/kW	5,85	5,87
Temperature range for cooling		°C	-5 ~ 48	-5 ~ 48
Rated heating capacity		kW	64,50	69,0
	Input power	kW	14,26	15,45
	COP	kW/kW	4,52	4,47
	SCOP	kW/kW	4,24	4,27
Temperature range for heating		°C	-20 ~ 24	-20 ~ 24
Connectable indoor units	Total capacity		up to 200%	up to 200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	62	62
Refrigerant piping diameter	Liquid	mm	Ø12.7	Ø15.9
	Gas (low pressure)	mm	Ø25.4	Ø31.8
	Gas (high pressure)	mm	Ø19.1	Ø28.6

Model			MV-252(8)WD2RN1T(D)	MV-335(12)WD2RN1T(D)	MV-280(10)WD2RN1T(D)	MV-335(12)WD2RN1T(D)
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	255	255
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	13000	12000	13000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,52	0,52
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

Configuration recommended by the manufacturer. Outdoor units can be combined into nonstandard configurations.
More information can be obtained from our Sales and Technical Adviser.

HEAT RECOVERY



78,4 – 83,9 kW

TECHNICAL SPECIFICATIONS

Model			MV-784WD2RN1T(D)	MV-839WD2RN1T(D)
Power supply			380-415V, 3N, 50/60Hz	380-415V, 3N, 50/60Hz
Rated cooling capacity		kW	78,4	83,9
	Input power	kW	18,69	21,22
	EER	kW/kW	4,19	3,95
	SEER	kW/kW	5,91	5,87
Temperature range for cooling		°C	-5 ~ 48	-5 ~ 48
Rated heating capacity		kW	85,5	91,5
	Input power	kW	16,25	19,28
	COP	kW/kW	5,26	4,75
	SCOP	kW/kW	4,15	4,21
Temperature range for heating		°C	-20 ~ 24	-20 ~ 24
Connectable indoor units	Total capacity		up to 200%	up to 200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	65	65
Refrigerant piping diameter	Liquid	mm	Ø12.7	Ø12.7
	Gas (low pressure)	mm	Ø22.2	Ø25.4
	Gas (high pressure)	mm	Ø19.1	Ø19.1

Model			MV-252(8) WD2RN1T(D)	MV-252(8) WD2RN1T(D)	MV-280(10) WD2RN1T(D)	MV-252(8) WD2RN1T(D)	MV-252(8) WD2RN1T(D)	MV-335(12) WD2RN1T(D)
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	255	255	255	255
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	12000	12000	12000	12000	13000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,52	0,52	0,52	0,52
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

Configuration recommended by the manufacturer. Outdoor units can be combined into nonstandard configurations.
More information can be obtained from our Sales and Technical Adviser.

HEAT RECOVERY



86,7 kW

TECHNICAL SPECIFICATIONS

Model			MV-867(38)WD2RN1T(D)		
Power supply			380-415V, 3N, 50/60Hz		
Rated cooling capacity		kW	86,7		
	Input power	kW	22,00		
	EER	kW/kW	3,94		
	SEER	kW/kW	5,88		
Temperature range for cooling		°C	-5 ~ 48		
Rated heating capacity		kW	96,0		
	Input power	kW	20,47		
	COP	kW/kW	4,69		
	SCOP	kW/kW	4,21		
Temperature range for heating		°C	-20 ~ 24		
Connectable indoor units	Total capacity		up to 200%		
	Max. quantity		up to 64		
Sound pressure level		dB(A)	66		
Refrigerant piping diameter	Liquid	mm	Ø12.7		
	Gas (low pressure)	mm	Ø25.4		
	Gas (high pressure)	mm	Ø19.1		
Model			**MV-252(8)WD2RN1T(D)**	**MV-280(10)WD2RN1T(D)**	**MV-335(12)WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	255
Compressor	Type		DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	12000	13000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,52
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 10 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

Configuration recommended by the manufacturer. Outdoor units can be combined into nonstandard configurations.
More information can be obtained from our Sales and Technical Adviser.

HEAT RECOVERY



25,2 – 33,5 kW

TECHNICAL SPECIFICATIONS

Model			MV-252(8)WD2RN1T(D)	MV-280(10)WD2RN1T(D)	MV-335(12)WD2RN1T(D)
Power supply			380-415V, 3N, 50/60 Hz	380-415V, 3N, 50/60 Hz	380-415V, 3N, 50/60 Hz
Rated cooling capacity		kW	25,2	28,0	33,5
	Input power	kW	5,97	6,75	9,28
	EER	kW/kW	4,22	4,15	3,61
	SEER	kW/kW	5,90	5,92	5,82
Temperature range for cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Rated heating capacity		kW	27,0	31,5	37,5
	Input power	kW	5,02	6,21	9,24
	COP	kW/kW	5,38	5,07	4,06
	SCOP	kW/kW	4,15	4,15	4,31
Temperature range for heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24
Connectable indoor units	Total capacity		up to 200%	up to 200%	up to 200%
	Max. quantity		up to 64	up to 64	up to 64
Sound pressure level		dB(A)	59	62	63
Sound power level		dB(A)	79	83	84
Refrigerant pipes diameter	Liquid	mm	Ø9.53	Ø12.7	Ø12.7
	Gas (low pressure)	mm	Ø22.2	Ø22.2	Ø25.4
	Gas (high pressure)	mm	Ø19.1	Ø19.1	Ø19.1
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	255
Compressor	Type		DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	12000	13000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,52
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 10 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



40,0 – 45,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-400(14)WD2RN1T(D)	MV-450(16)WD2RN1T(D)
Power supply			380-415V, 3N, 50/60 Hz	380-415V, 3N, 50/60 Hz
Rated cooling capacity		kW	40,0	45,0
	Input power	kW	11,49	14,20
	EER	kW/kW	3,48	3,17
	SEER	kW/kW	5,82	5,59
Temperature range for cooling		°C	-5 ~ 48	-5 ~ 48
Rated heating capacity		kW	40,0	45,0
	Input power	kW	9,76	11,90
	COP	kW/kW	4,10	3,78
	SCOP	kW/kW	4,01	4,01
Temperature range for heating		°C	-20 ~ 24	-20 ~ 24
Connectable indoor units	Total capacity		up to 200%	up to 200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	66	66
Sound power level		dB(A)	88	88
Refrigerant pipes diameter	Liquid	mm	Ø15.9	Ø15.9
	Gas (low pressure)	mm	Ø28.6	Ø28.6
	Gas (high pressure)	mm	Ø22.2	Ø22.2
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765
Net weight		kg	303	303
Compressor	Type		DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	15000	15000
	Type x Amount		Axial x 2	Axial x 2
	Motor power	kW	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection	
	Compressor		overheating protection, overload protection	
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

V4 PLUS R SERIES STANDARD

HEAT RECOVERY



53,2 – 68,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-532(18)WD2RN1T(D)		MV-560(20)WD2RN1T(D)		MV-615(22)WD2RN1T(D)		MV-680(24)WD2RN1T(D)	
Power supply			380-415V, 3N, 50/60 Hz		380-415V, 3N, 50/60 Hz		380-415V, 3N, 50/60 Hz		380-415V, 3N, 50/60 Hz	
Rated cooling capacity		kW	53,2		56,0		61,5		68,0	
	Input power	kW	12,72		13,50		16,03		18,24	
	EER	kW/kW	4,18		4,15		3,84		3,73	
	SEER	kW/kW	5,91		5,92		5,87		5,86	
Temperature range for cooling		°C	-5 ~ 48		-5 ~ 48		-5 ~ 48		-5 ~ 48	
Rated heating capacity		kW	58,5		63,0		69,0		71,50	
	Input power	kW	11,23		12,42		15,45		15,97	
	COP	kW/kW	5,21		5,07		4,47		4,48	
	SCOP	kW/kW	4,15		4,15		4,27		4,07	
Temperature range for heating		°C	-20 ~ 24		-20 ~ 24		-20 ~ 24		-20 ~ 24	
Connectable indoor units	Total capacity		up to 200%		up to 200%		up to 200%		up to 200%	
	Max. quantity		up to 64		up to 64		up to 64		up to 64	
Sound pressure level		dB(A)	61		61		62		63	
Refrigerant piping diameter	Liquid	mm	Ø15.9		Ø15.9		Ø15.9		Ø15.9	
	Gas (low pressure)	mm	Ø31.8		Ø31.8		Ø31.8		Ø34.9	
	Gas (high pressure)	mm	Ø28.6		Ø28.6		Ø28.6		Ø28.6	
Model			**MV-252(8) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-335(12) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	255	255	255	255	255	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	12000	12000	12000	12000	13000	12000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,52	0,52	0,52	0,52	0,52	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 10 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



73,0 - 90,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-730(26)WD2RN1T(D)		MV-800(28)WD2RN1T(D)		MV-850(30)WD2RN1T(D)		MV-900(32)WD2RN1T(D)	
Power supply			380-415V, 3N, 50/60 Hz		380-415V, 3N, 50/60 Hz		380-415V, 3N, 50/60 Hz		380-415V, 3N, 50/60 Hz	
Rated cooling capacity		kW	73,0		80,0		85,0		90,0	
	Input power	kW	20,95		22,98		25,69		28,40	
	EER	kW/kW	3,48		3,48		3,31		3,17	
	SEER	kW/kW	5,72		5,82		5,70		5,59	
Temperature range for cooling		°C	-5 ~ 48		-5 ~ 48		-5 ~ 48		-5 ~ 48	
Rated heating capacity		kW	76,50		80,00		85,00		90,00	
	Input power	kW	18,11		19,52		21,66		23,80	
	COP	kW/kW	4,22		4,10		3,92		3,78	
	SCOP	kW/kW	4,06		4,01		4,01		4,01	
Temperature range for heating		°C	-20 ~ 24		-20 ~ 24		-20 ~ 24		-20 ~ 24	
Connectable indoor units	Total capacity		up to 200%		up to 200%		up to 200%		up to 200%	
	Max. quantity		up to 64		up to 64		up to 64		up to 64	
Sound pressure level		dB(A)	63		64		50		53	
Refrigerant piping diameter	Liquid	mm	Ø19.1		Ø19.1		Ø19.1		Ø19.1	
	Gas (low pressure)	mm	Ø34.9		Ø34.9		Ø34.9		Ø34.9	
	Gas (high pressure)	mm	Ø28.6		Ø28.6		Ø28.6		Ø28.6	
Model			**MV-280(10) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	303	303	303	303	303	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	15000	15000	15000	15000	15000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,89	0,89	0,89	0,89	0,89	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



96,0 – 101,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-960(34)WD2RN1T(D)			MV-1010(36)WD2RN1T(D)		
Power supply			380-415V, 3N, 50/60Hz			380-415V, 3N, 50/60Hz		
Rated cooling capacity		kW	96,0			101,0		
	Input power	kW	24,99			27,70		
	EER	kW/kW	3,84			3,65		
	SEER	kW/kW	5,88			5,77		
Temperature range for cooling		°C	-5 ~ 48			-5 ~ 48		
Rated heating capacity		kW	103,0			108,0		
	Input power	kW	22,18			24,32		
	COP	kW/kW	4,64			4,44		
	SCOP	kW/kW	4,09			4,09		
Temperature range for heating		°C	-20 ~ 24			-20 ~ 24		
Connectable indoor units	Total capacity		up to 200%			up to 200%		
	Max. quantity		up to 64			up to 64		
Sound pressure level		dB(A)	56			65		
Refrigerant piping diameter	Liquid	mm	Ø19.1			Ø19.1		
	Gas (low pressure)	mm	Ø41.3			Ø41.3		
	Gas (high pressure)	mm	Ø34.9			Ø34.9		
Model			**MV-280(10) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	303	255	255	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	12000	15000	12000	12000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,89	0,52	0,52	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 13 kg	R410A x 10 kg	R410A x 10 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



106,5 – 113,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-1065(38)WD2RN1T(D)	MV-1130(40)WD2RN1T(D)
Power supply			380-415V, 3N, 50/60Hz	380-415V, 3N, 50/60Hz
Rated cooling capacity		kW	106,5	113,0
	Input power	kW	30,23	32,44
	EER	kW/kW	3,52	3,48
	SEER	kW/kW	5,75	5,75
Temperature range for cooling		°C	-5 ~ 48	-5 ~ 48
Rated heating capacity		kW	114,0	116,5
	Input power	kW	27,35	27,87
	COP	kW/kW	4,17	4,18
	SCOP	kW/kW	4,14	4,04
Temperature range for heating		°C	-20 ~ 24	-20 ~ 24
Connectable indoor units	Total capacity		up to 200%	up to 200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	65	66
Refrigerant piping diameter	Liquid	mm	Ø19.1	Ø19.1
	Gas (low pressure)	mm	Ø41.3	Ø41.3
	Gas (high pressure)	mm	Ø34.9	Ø34.9

Model			MV-280(10) WD2RN1T(D)	MV-335(12) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-280(10) WD2RN1T(D)	MV-400(14) WD2RN1T(D)	MV-450(16) WD2RN1T(D)
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	303	255	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	13000	15000	12000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,89	0,52	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 13 kg	R410A x 10 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



120,0 - 125,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-1200(42)WD2RN1T(D)			MV-1250(44)WD2RN1T(D)		
Power supply			380-415V, 3N, 50/60Hz			380-415V, 3N, 50/60Hz		
Rated cooling capacity		kW	120,0			125,0		
	Input power	kW	34,47			37,18		
	EER	kW/kW	3,48			3,36		
	SEER	kW/kW	5,82			5,74		
Temperature range for cooling		°C	-5 ~ 48			-5 ~ 48		
Rated heating capacity		kW	120,0			125,0		
	Input power	kW	29,28			31,42		
	COP	kW/kW	4,10			3,98		
	SCOP	kW/kW	4,01			4,01		
Temperature range for heating		°C	-20 ~ 24			-20 ~ 24		
Connectable indoor units	Total capacity		up to 200%			up to 200%		
	Max. quantity		up to 64			up to 64		
Sound pressure level		dB(A)	67			67		
Refrigerant piping diameter	Liquid	mm	Ø19.1			Ø19.1		
	Gas (low pressure)	mm	Ø41.3			Ø41.3		
	Gas (high pressure)	mm	Ø34.9			Ø34.9		
Model			**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	303	303	303	303	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	15000	15000	15000	15000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,89	0,89	0,89	0,89	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



130,0 – 135,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-1300(46)WD2RN1T(D)			MV-1350(48)WD2RN1T(D)		
Power supply			380-415V, 3N, 50/60Hz			380-415V, 3N, 50/60Hz		
Rated cooling capacity		kW	130,0			135,0		
	Input power	kW	39,89			42,60		
	EER	kW/kW	3,26			3,17		
	SEER	kW/kW	5,66			5,59		
Temperature range for cooling		°C	-5 ~ 48			-5 ~ 48		
Rated heating capacity		kW	130,0			135,0		
	Input power	kW	33,56			35,70		
	COP	kW/kW	3,87			3,78		
	SCOP	kW/kW	4,01			4,01		
Temperature range for heating		°C	-20 ~ 24			-20 ~ 24		
Connectable indoor units	Total capacity		up to 200%			up to 200%		
	Max. quantity		up to 64			up to 64		
Sound pressure level		dB(A)	67			67		
Refrigerant piping diameter	Liquid	mm	Ø19.1			Ø19.1		
	Gas (low pressure)	mm	Ø41.3			Ø41.3		
	Gas (high pressure)	mm	Ø34.9			Ø34.9		
Model			**MV-400(14) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	303	303	303	303	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	15000	15000	15000	15000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,89	0,89	0,89	0,89	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



143,2 – 146,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-1432(50)WD2RN1T(D)	MV-1460(52)WD2RN1T(D)
Power supply			380-415V, 3N, 50/60Hz	380-415V, 3N, 50/60Hz
Rated cooling capacity		kW	143,2	146,0
	Input power	kW	41,12	41,90
	EER	kW/kW	3,48	3,48
	SEER	kW/kW	5,71	5,72
Temperature range for cooling		°C	-5 ~ 48	-5 ~ 48
Rated heating capacity		kW	148,5	153,0
	Input power	kW	35,03	36,22
	COP	kW/kW	4,24	4,22
	SCOP	kW/kW	4,06	4,06
Temperature range for heating		°C	-20 ~ 24	-20 ~ 24
Connectable indoor units	Total capacity		up to 200%	up to 200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	68	68
Refrigerant piping diameter	Liquid	mm	Ø22.2	Ø22.2
	Gas (low pressure)	mm	Ø44.5	Ø44.5
	Gas (high pressure)	mm	Ø38.1	Ø38.1

Model			MV-252(8) WD2RN1T(D)	MV-280(10) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-280(10) WD2RN1T(D)	MV-280(10) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	303	303	255	255	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	12000	15000	15000	12000	12000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,89	0,89	0,52	0,52	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 13 kg	R410A x 13 kg	R410A x 10 kg	R410A x 10 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



151,5 - 158,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-1515(54)WD2RN1T(D)				MV-1580(56)WD2RN1T(D)			
Power supply			380-415V, 3N, 50/60Hz				380-415V, 3N, 50/60Hz			
Rated cooling capacity		kW	151,5				158,0			
	Input power	kW	44,43				46,64			
	EER	kW/kW	3,41				3,39			
	SEER	kW/kW	5,70				5,71			
Temperature range for cooling		°C	-5 ~ 48				-5 ~ 48			
Rated heating capacity		kW	159,0				161,5			
	Input power	kW	39,25				39,77			
	COP	kW/kW	4,05				4,06			
	SCOP	kW/kW	4,10				4,03			
Temperature range for heating		°C	-20 ~ 24				-20 ~ 24			
Connectable indoor units	Total capacity		up to 200%				up to 200%			
	Max. quantity		up to 64				up to 64			
Sound pressure level		dB(A)	68				68			
Refrigerant piping diameter	Liquid	mm	Ø22.2				Ø22.2			
	Gas (low pressure)	mm	Ø44.5				Ø44.5			
	Gas (high pressure)	mm	Ø38.1				Ø38.1			
Model			**MV-280(10) WD2RN1T(D)**	**MV-335(12) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-280(10) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	255	255	303	303	255	303	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	12000	13000	15000	15000	12000	15000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,52	0,52	0,89	0,89	0,52	0,89	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 10 kg	R410A x 10 kg	R410A x 13 kg	R410A x 13 kg	R410A x 10 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



165,0 - 170,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-1650(58)WD2RN1T(D)				MV-1700(60)WD2RN1T(D)			
Power supply			380-415V, 3N, 50/60Hz				380-415V, 3N, 50/60Hz			
Rated cooling capacity		kW	165,0				170,0			
	Input power	kW	48,67				51,38			
	EER	kW/kW	3,39				3,31			
	SEER	kW/kW	5,76				5,70			
Temperature range for cooling		°C	-5 ~ 48				-5 ~ 48			
Rated heating capacity		kW	165,0				170,0			
	Input power	kW	41,18				43,32			
	COP	kW/kW	4,01				3,92			
	SCOP	kW/kW	4,01				4,01			
Temperature range for heating		°C	-20 ~ 24				-20 ~ 24			
Connectable indoor units	Total capacity		up to 200%				up to 200%			
	Max. quantity		up to 64				up to 64			
Sound pressure level		dB(A)	69				69			
Refrigerant piping diameter	Liquid	mm	Ø22.2				Ø22.2			
	Gas (low pressure)	mm	Ø44.5				Ø44.5			
	Gas (high pressure)	mm	Ø38.1				Ø38.1			
Model			**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-400(14) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**	**MV-450(16) WD2RN1T(D)**
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	303	303	303	303	303	303	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	15000	15000	15000	15000	15000	15000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

HEAT RECOVERY



175,0 - 180,0 kW

TECHNICAL SPECIFICATIONS

Model			MV-1750(62)WD2RN1T(D)	MV-1800(64)WD2RN1T(D)
Power supply			380-415V, 3N, 50/60Hz	380-415V, 3N, 50/60Hz
Rated cooling capacity		kW	175,0	180,0
	Input power	kW	54,09	56,80
	EER	kW/kW	3,24	3,17
	SEER	kW/kW	5,64	5,59
Temperature range for cooling		°C	-5 ~ 48	-5 ~ 48
Rated heating capacity		kW	175,0	180,0
	Input power	kW	45,46	47,60
	COP	kW/kW	3,85	3,78
	SCOP	kW/kW	4,01	4,01
Temperature range for heating		°C	-20 ~ 24	-20 ~ 24
Connectable indoor units	Total capacity		up to 200%	up to 200%
	Max. quantity		up to 64	up to 64
Sound pressure level		dB(A)	69	69
Refrigerant piping diameter	Liquid	mm	Ø22.2	Ø22.2
	Gas (low pressure)	mm	Ø44.5	Ø44.5
	Gas (high pressure)	mm	Ø38.1	Ø38.1

Model			MV-400(14) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)	MV-450(16) WD2RN1T(D)
Outdoor diameter	Width x height x depth	mm	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765	1250×1615×765
Net weight		kg	303	303	303	303	303	303	303	303
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Fan	Air-flow rate	m^3/h	15000	15000	15000	15000	15000	15000	15000	15000
	Type x Amount		Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2	Axial x 2
	Motor power	kW	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
Protections	High pressure protection	MPa	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection							
	Compressor		overheating protection, overload protection							
Refrigerant	Type x factory charge		R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg	R410A x 13 kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
The specification complies with PEiR 2016/2281 Regulation and is certified by Eurovent
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





SERIES

V4 PLUS W

By equipping this system with the water cooled heat exchanger, the unit can be installed in a technical room inside the building. The fanless design makes this unit extremely quiet. This solution is recommended for high rise buildings with limited roof space.



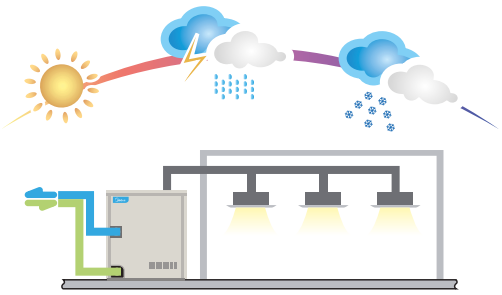
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UNITS FEATURES

HIGH RELIABILITY

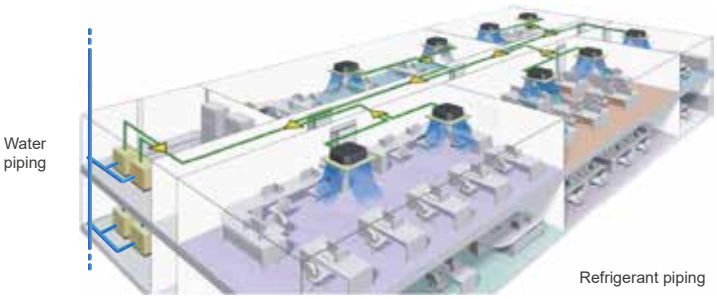
OPERATION IN ALL CONDITIONS

Capacity and operation of the water cooled units depend on supplied water temperature. A unit operates independently from weather conditions. During winter, there is no need for defrosting what ensures continuous heating operation.

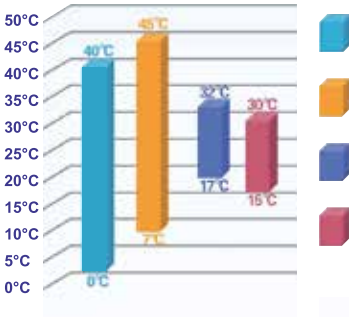


INNER REFRIGERANT PIPING

Indoor units are connected with refrigerant piping. Lack of water pipes in the building reduces the risk of water leakage and rooms devastation.



RECOMMENDED TEMPERATURE RANGE



Working temperature: 0°C~40°C

Water inlet temperature: 7°C~45°C

Ambient temperature: cooling: 17°C~32°C

Ambient temperature: heating: 15°C~30°C

HIGH EFFICIENCY

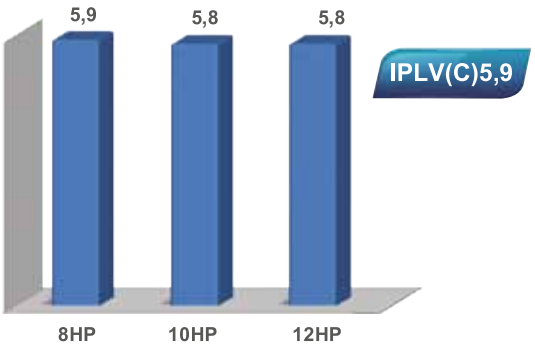
HEAT EXCHANGER

The optimal designed double-pipe heat exchanger, equally and efficiently transfers heat energy from water to the operating medium. The innovative exchanger technology significantly increases system efficiency and reduces limits of supplied water quality requirements. This facilitates maintenance and reduced the likelihood of clogging the pipes.



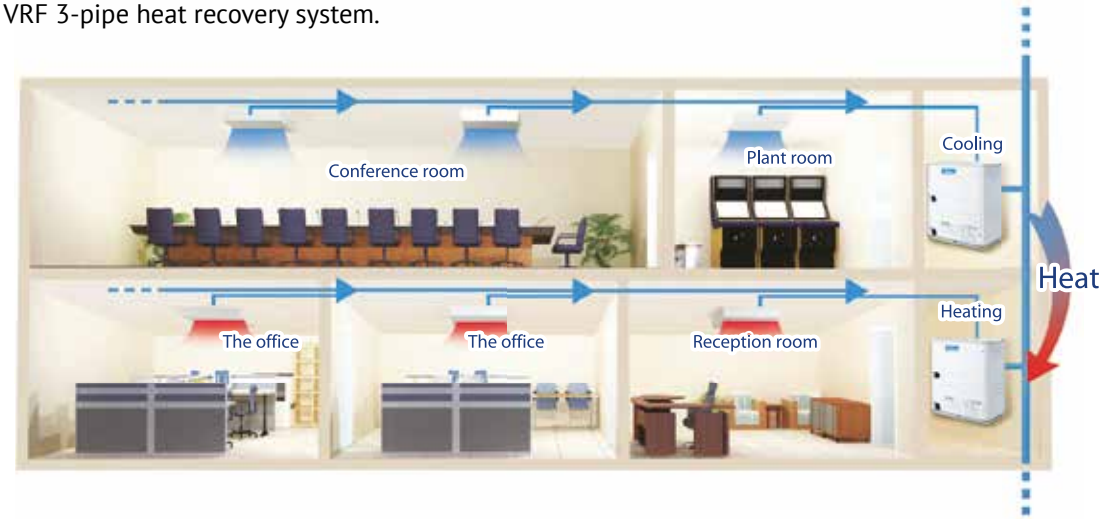
HIGH EFFICIENCY

Using water as a source of cooling in the refrigerating systems, provides energy savings. IPLV(C) index at the level of 5,9.



HEAT RECOVERY FUNCTION

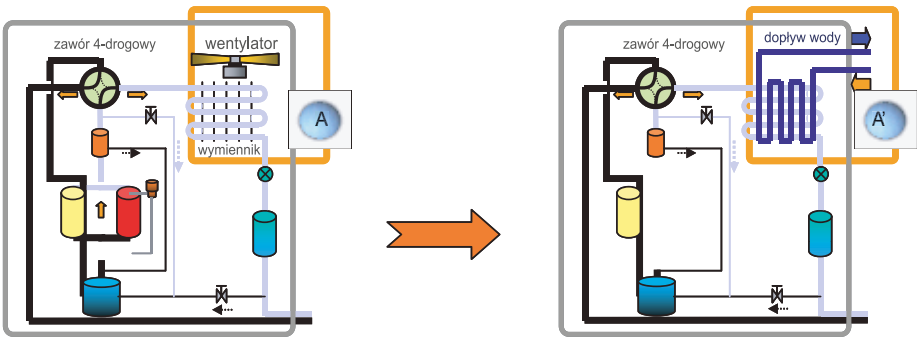
Application of systems supplied with water, ensures operation of the first air-conditioning installation, equipped in the water heat exchanger, to run as a heat pump, and the second one as the cooling system. This solution is comparable to the VRF 3-pipe heat recovery system.



INCREASING COMFORT

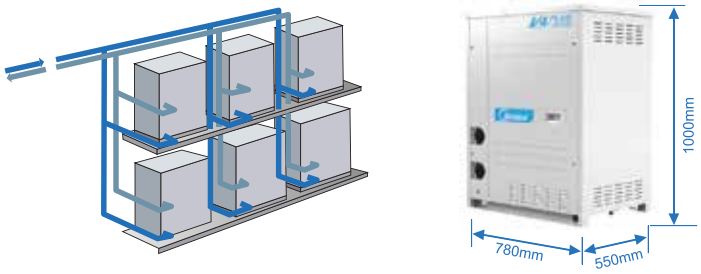
QUIET OPERATION

Compact dimensions of the unit and eliminated fans, helped to reduce the noise level.



MODERN AND COMPACT LOOK

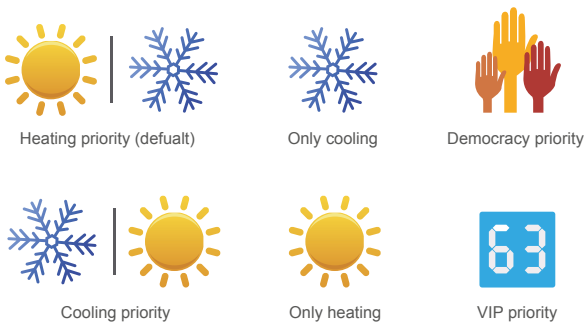
Compact and unified dimensions for all units of the V4 PLUS W series: 780 x 1000 x 550 mm (width/height/depth); weight – 146 kg. Minimized dimensions and reduced weight of the units, allow to locate the system even in the most inaccessible spots in the building. Compact construction enables block installation of the units and saving space (storehouses, cellars, closed balconies, corridor etc.).



OPERATION MODE

There are 6 types of system operation mode selection:

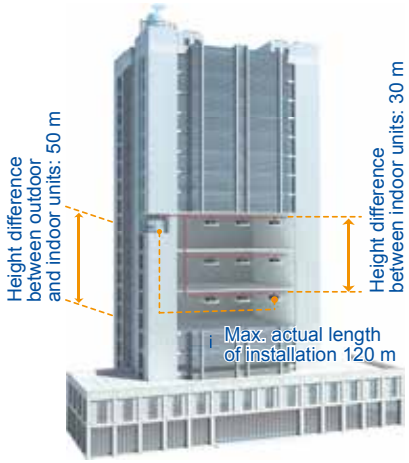
- heating priority (default)
- cooling priority
- only heating
- only cooling
- VIP priority (address 63 can decide on system operation mode)
- democracy priority (demand of the most turned on units is decisive for choosing the mode)



SIMPLE INSTALLATION, QUICK SERVICE

PIPING LENGTH

The total length of refrigerant installation has been extended up to 300 m, the longest segment of piping is extended up to 120 m and the height difference between outdoor and indoor unit is increased up to 50 m. The maximum water side pressure reaches even 1,96 MPa (this enables installation in water loops with height difference of 200 m), providing huge opportunities in air-conditioning system design for high rise buildings. Lack of water piping in the building, reduces risk of water leakage.



			Allowed value (m)
Piping length	Total piping length		300
	Max. length	actual length	120
		equivalent length	150
Height difference	From the first branch pipe		40/90*
	Between outdoor and indoor unit	outdoor unit below	50
		outdoor unit above	40
	Between indoor units		30

* Detailed specifications are described in technical manual.

EASY MAINTENANCE

Inspection window for checking the systems status without the need to open the casing. Compressor is located near the door, which simplifies checks.





WATER SUPPLIED



25,2 – 33,5 kW

TECHNICAL SPECIFICATIONS

Model			MDVS-252(8)W/DRN1	MDVS-280(10)W/DRN1	MDVS-335(12)W/DRN1
Power supply			380~415V, 3N, 50Hz/60Hz		
Rated cooling capacity		kW	25,2	28,0	33,5
	Input power	kW	4,8	6,1	8.0
	Input current	A	16,2	16,2	18,3
	EER	kW/kW	5,25	4,59	4,19
Rated heating capacity		kW	27,0	31,5	37,5
	Input power	kW	4,45	5,83	7,80
	Input current	A	16,2	16,2	18,3
	COP	kW/kW	6,07	5,40	4,81
Recommended inlet water temperature range		°C	7~45	7~45	7~45
Connected indoor units	Total capacity		50%~130%	50%~130%	50%~130%
	Amount		13	16	19
Sound pressure level		dB(A)	51	52	52
Refrigerant piping diameter	Liquid	mm	Ø12,7	Ø12,7	Ø15,9
	Gas (low pressure)	mm	Ø25,4	Ø25,4	Ø31,8
Hydraulic connections		mm	DN32	DN32	DN32
		"	1 1/4	1 1/4	1 1/4
Exchanger pressure drops		kPa	35	40	48
Outdoor diameter	Width x height x depth	mm	780x1000x550	780x1000x550	780x1000x550
Net weight		kg	146	146	146
Heat exchanger			double-pipe with increased heat exchange surface		
Compressor	Type		DC inverter	DC inverter	DC inverter
Fan	Water flow	m^3/h	5,4	6,0	7,2
Protections	High pressure protection	MPa	4,4	4,4	4,4
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 2kg	R410A x 2kg	R410A x 2kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

WATER SUPPLIED



50,4 - 53,2 kW

TECHNICAL SPECIFICATIONS

Model			MDVS-504(16)W/DRN1		MDVS-532(18)W/DRN1	
Power supply			380~415V, 3N, 50Hz/60Hz			
Rated cooling capacity		kW	50,4		53,2	
	Input power	kW	9,6		10,9	
	Input current	A	32,4		32,4	
	EER	kW/kW	5,25		4,90	
Rated heating capacity		kW	54,00		58,50	
	Input power	kW	8,90		10,28	
	Input current	A	32,40		32,40	
	COP	kW/kW	6,07		5,72	
Recommended inlet water temperature range		°C	7~45		7~45	
Connected indoor units	Total capacity		50%~130%		50%~130%	
	Amount		23		29	
Sound pressure level		dB(A)	52		53	
Refrigerant piping diameter	Liquid	mm	Ø12,7	Ø12,7	Ø12,7	Ø12,7
	Gas (low pressure)	mm	Ø25,4	Ø25,4	Ø25,4	Ø25,4
Hydraulic connections		mm	DN32	DN32	DN32	DN32
		"	1 1/4	1 1/4	1 1/4	1 1/4
Model			MDVS-252(8)W/DRN1	MDVS-252(8)W/DRN1	MDVS-252(8)W/DRN1	MDVS-280(10)W/DRN1
Exchanger pressure drops		kPa	35	35	35	40
Outdoor diameter	Width x height x depth	mm	780x1000x550	780x1000x550	780x1000x550	780x1000x550
Net weight		kg	146	146	146	146
Heat exchanger			double-pipe with increased heat exchange surface			
Compressor	Type		DC inverter		DC inverter	
Fan	Water flow	m^3/h	5,4	5,4	5,4	6,0
Protections	High pressure protection	MPa	4,4		4,4	
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection			
	Compressor		overheating protection, overload protection			
Refrigerant	Type x factory charge		R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

WATER SUPPLIED



56,0 - 67,0 kW

TECHNICAL SPECIFICATIONS

Model			MDVS-560(20)W/DRN1		MDVS-615(22)W/DRN1		MDVS-670(24)W/DRN1	
Power supply			380~415V, 3N, 50Hz/60Hz					
Rated cooling capacity		kW	56,0		61,5		67,0	
	Input power	kW	12,2		14,1		16,0	
	Input current	A	32,4		34,5		36,6	
	EER	kW/kW	4,59		4,37		4,19	
Rated heating capacity		kW	63,0		69,0		75,0	
	Input power	kW	11,66		13,63		15,60	
	Input current	A	32,4		34,5		36,6	
	COP	kW/kW	5,40		5,08		4,81	
Recommended inlet water temperature range		°C	7~45		7~45		7~45	
Connected indoor units	Total capacity		50%~130%		50%~130%		50%~130%	
	Amount		33		36		39	
Sound pressure level		dB(A)	53		53		53	
Refrigerant piping diameter	Liquid	mm	Ø12,7	Ø12,7	Ø12,7	Ø15,9	Ø15,9	Ø15,9
	Gas (low pressure)	mm	Ø25,4	Ø25,4	Ø25,4	Ø31,8	Ø31,8	Ø31,8
Hydraulic connections		mm	DN32	DN32	DN32	DN32	DN32	DN32
		"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Model			**MDVS-280(10)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-335(12)W/DRN1**	**MDVS-335(12)W/DRN1**	**MDVS-335(12)W/DRN1**
Exchanger pressure drops		kPa	40	40	40	48	48	48
Outdoor diameter	Width x height x depth	mm	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550	780x1000x550
Net weight		kg	146	146	146	146	146	146
Heat exchanger			double-pipe with increased heat exchange surface					
Compressor	Type		DC inverter		DC inverter		DC inverter	
Fan	Water flow	m^3/h	6,0	6,0	6,0	7,2	7,2	7,2
Protections	High pressure protection	MPa	4,4		4,4		4,4	
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

WATER SUPPLIED



78,4 - 84,0 kW

TECHNICAL SPECIFICATIONS

Model			MDVS-784(26)W/DRN1			MDVS-812(28)W/DRN1			MDVS-840(30)W/DRN1		
Power supply			380~415V, 3N, 50Hz/60Hz								
Rated cooling capacity		kW	78,4			81,2			84,0		
	Input power	kW	15,7			17,0			18,3		
	Input current	A	48,6			48,6			48,6		
	EER	kW/kW	5,01			4,79			4,59		
Rated heating capacity		kW	85,5			90,0			94,5		
	Input power	kW	14,73			16,11			17,49		
	Input current	A	48,6			48,6			48,6		
	COP	kW/kW	5,83			5,61			5,40		
Recommended inlet water temperature range		°C	7~45			7~45			7~45		
Connected indoor units	Total capacity		50%~130%			50%~130%			50%~130%		
	Amount		23			23			23		
Sound pressure level		dB(A)	52			52			52		
Refrigerant piping diameter	Liquid	mm	Ø12,7	Ø12,7	Ø12,7	Ø12,7	Ø12,7	Ø12,7	Ø12,7	Ø12,7	Ø12,7
	Gas (low pressure)	mm	Ø25,4	Ø25,4	Ø25,4	Ø25,4	Ø25,4	Ø25,4	Ø25,4	Ø25,4	Ø25,4
Hydraulic connections		mm	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32	DN32
		"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Model			**MDVS-252(8)W/DRN1**	**MDVS-252(8)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-252(8)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-280(10)W/DRN1**
Exchanger pressure drops		kPa	35	35	40	35	40	40	40	40	40
Outdoor diameter	Width x height x depth	mm	780x1000 x550	780x1000 x550	780x1000 x550	780x1000 x550	780x1000 x550	780x1000 x550	780x1000x 550	780x1000 x550	780x1000 x550
Net weight		kg	146	146	146	146	146	146	146	146	146
Heat exchanger			double-pipe with increased heat exchange surface								
Compressor	Type		DC inverter			DC inverter			DC inverter		
Fan	Water flow	m^3/h	5,4	5,4	6,0	5,4	6,0	6,0	6,0	6,0	6,0
Protections	High pressure protection	MPa	4,4			4,4			4,4		
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection								
	Compressor		overheating protection, overload protection								
Refrigerant	Type x factory charge		R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

WATER SUPPLIED



89,5 - 95,0 kW

TECHNICAL SPECIFICATIONS

Model			MDVS-895(32)W/DRN1			MDVS-950(34)W/DRN1		
Power supply			380~415V, 3N, 50Hz/60Hz					
Rated cooling capacity		kW	89,5			95,0		
	Input power	kW	20,2			22,1		
	Input current	A	50,7			52,8		
	EER	kW/kW	4,44			4,31		
Rated heating capacity		kW	100,5			106,5		
	Input power	kW	19,46			21,43		
	Input current	A	50,7			52,8		
	COP	kW/kW	5,18			4,98		
Recommended inlet water temperature range		°C	7~45			7~45		
Connected indoor units	Total capacity		50%~130%			50%~130%		
	Amount		23			23		
Sound pressure level		dB(A)	52			52		
Refrigerant piping diameter	Liquid	mm	Ø12,7	Ø12,7	Ø15,9	Ø12,7	Ø15,9	Ø15,9
	Gas (low pressure)	mm	Ø25,4	Ø25,4	Ø31,8	Ø25,4	Ø31,8	Ø31,8
Hydraulic connections		mm	DN32	DN32	DN32	DN32	DN32	DN32
		"	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Model			**MDVS-280(10)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-335(12)W/DRN1**	**MDVS-280(10)W/DRN1**	**MDVS-335(12)W/DRN1**	**MDVS-335(12)W/DRN1**
Exchanger pressure drops		kPa	40	40	48	40	48	48
Outdoor diameter	Width x height x depth	mm	780x1000 x550	780x1000 x550	780x1000 x550	780x1000 x550	780x1000 x550	780x1000 x550
Net weight		kg	146	146	146	146	146	146
Heat exchanger			double-pipe with increased heat exchange surface					
Compressor	Type		DC inverter			DC inverter		
Fan	Water flow	m^3/h	6,0	6,0	7,2	6,0	7,2	7,2
Protections	High pressure protection	MPa	4,4			4,4		
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection					
	Compressor		overheating protection, overload protection					
Refrigerant	Type x factory charge		R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg	R410A x 2kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.

WATER SUPPLIED



100,5 kW

TECHNICAL SPECIFICATIONS

Model			MDVS-1005(36)W/DRN1		
Power supply			380~415V, 3N, 50Hz/60Hz		
Rated cooling capacity		kW	100,5		
	Input power	kW	24,0		
	Input current	A	54,9		
	EER	kW/kW	4,19		
Rated heating capacity		kW	112,5		
	Input power	kW	23,40		
	Input current	A	54,9		
	COP	kW/kW	4,81		
Recommended inlet water temperature range		°C	7~45		
Connected indoor units	Total capacity		50%~130%		
	Amount		23		
Sound pressure level		dB(A)	52		
Refrigerant pipes diameter	Liquid	mm	Ø15,9	Ø15,9	Ø15,9
	Gas (low pressure)	mm	Ø31,8	Ø31,8	Ø31,8
Hydraulic connections		mm	DN32	DN32	DN32
		"	1 1/4	1 1/4	1 1/4
Model			**MDVS-335(12)W/DRN1**	**MDVS-335(12)W/DRN1**	**MDVS-335(12)W/DRN1**
Exchanger pressure drops		kPa	48	48	48
Outdoor diameter	Width x height x depth	mm	780x1000x550	780x1000x550	780x1000x550
Net weight		kg	146	146	146
Heat exchanger					
Compressor	Type		DC inverter		
Fan	Water flow	m^3/h	7,2	7,2	7,2
Protections	High pressure protection	MPa	4,4		
	Inverter		overheating protection, overcurrent protection, phase sequence protection, phase protection, overvoltage protection		
	Compressor		overheating protection, overload protection		
Refrigerant	Type x factory charge		R410A x 2kg	R410A x 2kg	R410A x 2kg

Note:
Capacity is based on the following conditions:
1. Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
2. Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Piping length: length of connected pipes is 7.5m, the height difference is 0.
Noise level measured in an semianechoic chamber, at a distance of 1 m from the unit and at the height of 1.3m above the floor.
Outdoor units need to be connected with use of branch pipes.
The unit contains fluorinated greenhouse gases (R410A GWP=2088).
For the proper operation of outdoor units in the heat pump mode, it is necessary to apply a drain pan heater or provide smooth condensate drain in another manner. Choice of the appropriate solution is a matter for installer.





Midea

VRF INDOOR UNITS

AVAILABLE **VRF NDOOR UNITS**

Type	Model	17	18	22	28	36	45	52	56	71
	kW	1.7	1.8	2.2	2.8	3.6	4.5	5.2	5.6	7.1
One-way Cassette			●	●	●	●	●		●	●
Two-way Cassette				●	●	●	●		●	●
Compact Four-way Cassette		●		●	●	●	●	●		
Slim Four-way Cassette					●	●	●		●	●
Medium Static Pressure Duct		●		●	●	●	●		●	●
High Static Pressure Duct										●
Fresh Air Processing Unit										
Ceiling / Floor						●	●		●	●
Wall Mounted Unit		●		●	●	●	●		●	●
Floor Standing Unit				●	●	●	●		●	●
Console				●	●	●	●			

80	90	100	112	125	140	160	200	250	280	400	450	560	Strona
8.0	9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0	
													268
													270
													272
•	•	•	•		•								276
•	•		•		•								280
•	•		•		•	•	•	•	•	•	•	•	284
				•	•								288
•	•		•		•								292
•	•												296
•													300
													304



Cassette unit with one-way air outlet, ideal for installation in limited ceiling space.

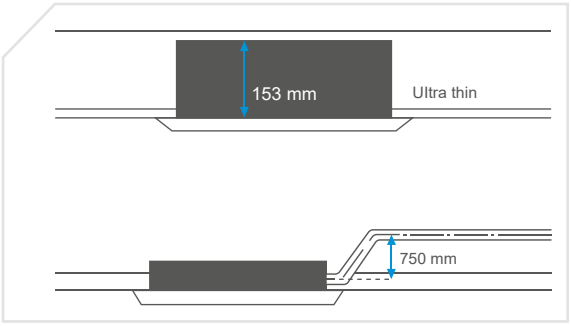
1-WAY UNITS

1,8 – 7,1 kW

UNIQUE FEATURES:

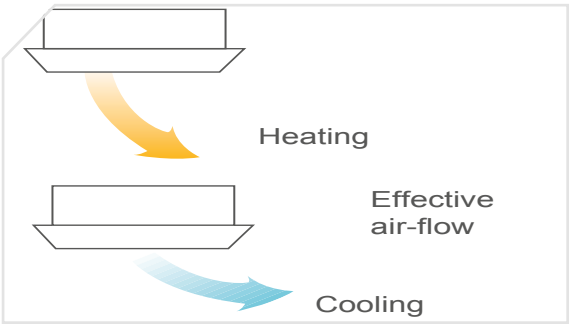
1 MIN. 153MM THICKNESS

Compact design,ultra slim body with a minimum thickness of 153mm, especially suitable for narrow ceiling, such as in lobbies and small meeting rooms. Standard built-in drain pump with 750mm pumphead.



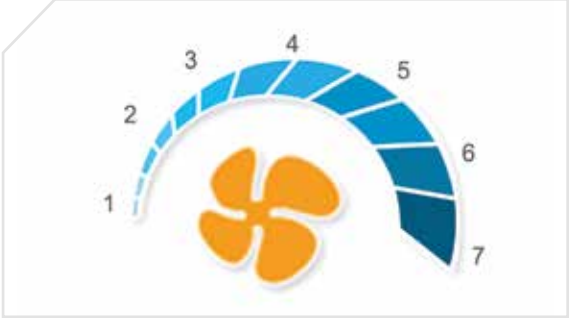
2 AUTO SWING

Auto swing mechanism guarantees even distribution of airflow and better balance of room temperature.



3 7 FAN SPEEDS

New motor of the DC type fan provides choice of 7 speeds. This enables very precise adjustment of the air-conditioner performance and as a result - thermal comfort conditions can be obtained much faster.



TECHNICAL SPECIFICATIONS

Model			MI2-18Q1DN1	MI2-22Q1DN1	MI2-28Q1DN1	MI2-36Q1DN1	MI2-45Q1DN1	MI2-56Q1DN1	MI2-71Q1DN1
Panel			T-MBQ1-02D	T-MBQ1-02D	T-MBQ1-02D	T-MBQ1-02D	T-MBQ1-01D	T-MBQ1-01D	T-MBQ1-01D
Power supply			1-phase 220-240V 50Hz						
Cooling	Rated capacity (*1)	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
	Input power	kW	0.025	0.025	0.03	0.03	0.04	0.048	0.06
	Input current	A	0.11	0.11	0.13	0.13	0.17	0.21	0.26
Heating	Rated capacity (*2)	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
	Input power	kW	0.025	0.025	0.03	0.03	0.04	0.048	0.06
	Input current	A	0.11	0.11	0.13	0.13	0.17	0.21	0.26
Heat exchanger	Corrosion protection		Hydrophilic coating						
Air-flow rate		m^3/h	275/312/360/404/448/482/523	275/312/360/404/448/482/523	315/364/420/456/492/531/573	315/364/420/456/492/531/573	476/510/556/600/638/662/693	549/589/643/688/728/763/792	592/637/689/749/815/873/933
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	30/31/32/34/35/36/37	30/31/32/34/35/36/37	34/35/35/36/37/38/39	34/35/35/36/37/38/39	35/36/37/38/39/40/41	36/37/38/39/40/41/42	37/48/39/41/42/43/44
Unit dimensions	Net dimensions (width x height x depth)	mm	1054x153x425	1054x153x425	1054x153x425	1054x153x425	1275x189x450	1275x189x450	1275x189x450
	Net weight	kg	11.8	11.8	12.3	12.3	16.1	16.4	17.6
Panel	Net dimensions (width x height x depth)	mm	1180x25x465	1180x25x465	1180x25x465	1180x25x465	1350x25x505	1350x25x505	1350x25x505
	Net weight	kg	3.5	3.5	3.5	3.5	4	4	4
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A
Throttle		type	Electronic expansion valve						
Piping	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.53	Ø9.53
	Gas	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



2-way air-flow cassette unit with only 300 mm of height.

2-WAY UNITS

2,2 – 7,1 kW

UNIQUE FEATURES:

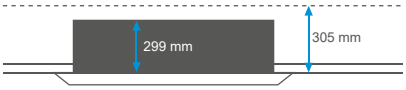
1 QUIET OPERATION

Optimized airflow duct with low resistance greatly reduces noise, down to a minimum of 24dB(A).



2 ONLY 299 mm OF HEIGHT

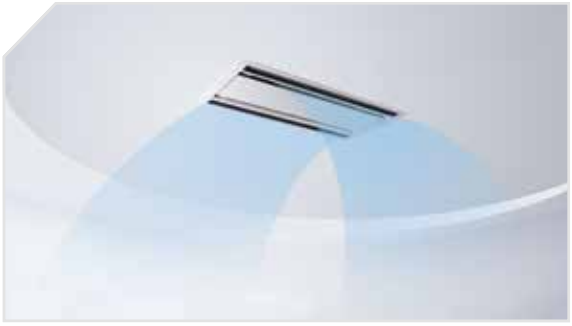
Compact body, only 299 mm of height provides maximum limitation of space in suspended ceilings.



Standard built-in drain pump with 750mm pump head

3 LONG DISTANCE AIR-FLOW

Long distance air-flow, up for high ceiling application guarantees comfort in large spaces. Guarantees even airflow and temperature throughout the room. Ideal for long and narrow corridors.



TECHNICAL SPECIFICATIONS

Model			MI2-22Q2DN1	MI2-28Q2DN1	MI2-36Q2DN1	MI2-45Q2DN1	MI2-56Q2DN1	MI2-71Q2DN1
Panel			T-MBQ2-01	T-MBQ2-01	T-MBQ2-01	T-MBQ2-01	T-MBQ2-01	T-MBQ2-01
Power supply			1-phase 220-240V 50Hz					
Cooling	Rated capacity (*1)	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Input power	kW	0.035	0.04	0.04	0.05	0.069	0.098
	Input current	A	0.15	0.17	0.17	0.22	0.30	0.43
Heating	Rated capacity (*2)	kW	2.6	3.2	4	5	6.3	8
	Input power	kW	0.035	0.04	0.04	0.05	0.069	0.098
	Input current	A	0.15	0.17	0.17	0.22	0.30	0.43
Heat exchanger	Corrosion protection		Hydrophilic coating					
Air-flow rate		m^3/h	410/449/488/ 530/571/ 612/654	410/449/488/ 530/571/ 612/654	458/509/554/ 591/641/ 679/725	550/592/631/ 670/731/ 792/850	670/710/760/ 800/860/ 920/970	790/860/940 /1010/1050/ 1090/1120
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	24/25/27/29/ 30/31/33	24/25/27/29/ 30/31/33	25/27/29/30/ 32/33/35	30/31/32/34/ 35/36/37	30/31/33/35/ 36/37/39	34/36/38/40/ 41/42/44
Unit dimensions	Net dimensions (width x height x depth)	mm	1172x299x591	1172x299x591	1172x299x591	1172x299x591	1172x299x591	1172x299x591
	Net weight	kg	33.5	33.5	33.5	35	35	35
Panel	Net dimensions (width x height x depth)	mm	1430x53x680	1430x53x680	1430x53x680	1430x53x680	1430x53x680	1430x53x680
	Net weight	kg	10.5	10.5	10.5	10.5	10.5	10.5
Refrigerant			R410A					
Throttle		type	Electronic expansion valve					
Piping	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.53	Ø9.53
	Gas	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



4-WAY UNITS

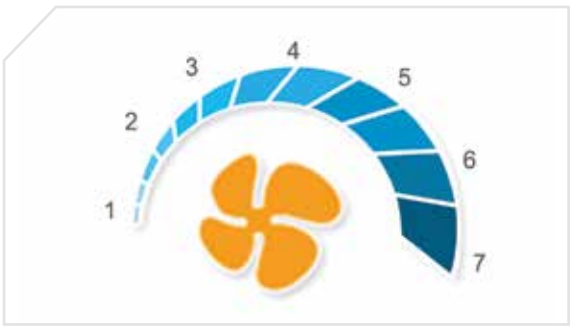
Compact cassette type unit ideal for installation in a ceiling tile space.

1,7 – 5,2 kW

UNIQUE FEATURES:

1 7 FAN SPEEDS

New motor of the DC type fan provides choice of 7 speeds. This enables very precise adjustment of the air-conditioner performance and as a result - thermal comfort conditions can be obtained much faster.



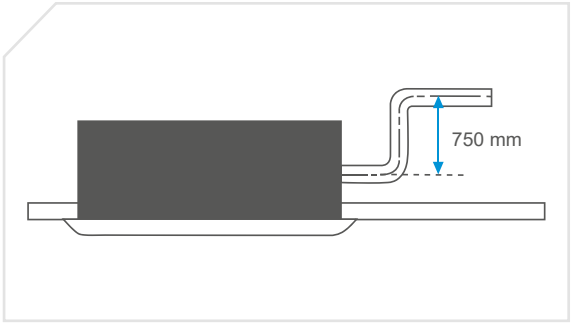
2 360° AIR OUTLET

360° air outlet provides optimum circulation and air-flow in every direction. Even air-flow and temperature distribution guarantee comfort conditions in a room.



3 BUILT-IN DRAIN PUMP

Drain pump with 750mm pump head fitted as standard.



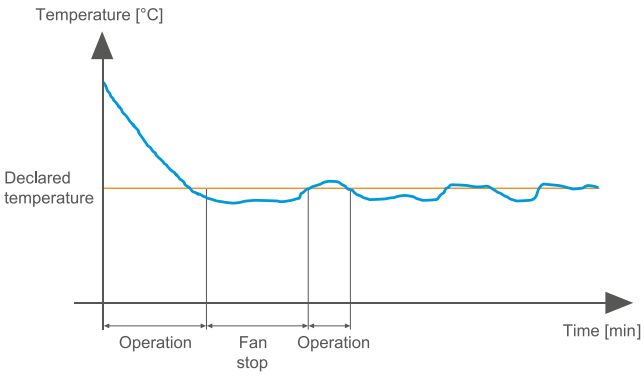
ADAPTATION TO INSTALLATION HEIGHT

Midea provides the highest comfort in use of air-conditioning appliances by individually adjusting each unit to the type of room and customer needs.

Cooling mode function logic

Cold air-flow protection, so called "draught effect" – stopping the fan operation at the moment of temperature dropping below the declared temperature.

1. Declared temperature
   a) 15°C b) 20°C c) 24°C d) 26°C
2. Declared time of indoor unit fan inactivity (refrigerant is not supplied to the unit – "fan stop"").
   a) 4 minutes b) 8 minutes c) 12 minutes d) 16 minutes



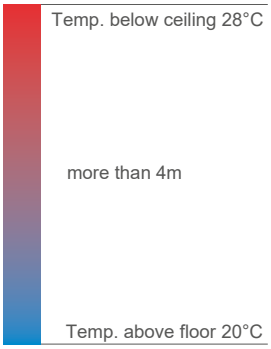
Heating mode function logic

Depending on the unit installation height, Midea suggests 4 temperature correction settings. The correction value is subtracted from the physical temperature measurement:
a) 2°C b) 4°C c) 6°C d) 8°C

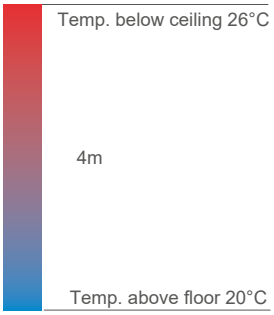
Example

Temperature sensor measures room temperature (the result is 24°C), including the correction of 4°C – unit setting temperature is 20°C, when the temperature reading is 24°C the unit continues operation to obtain the temperature setting.

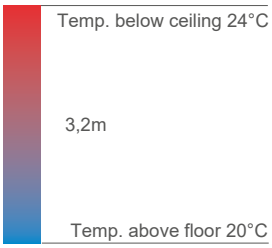
Temperature distribution in a room with height above 4m – correction 8°C



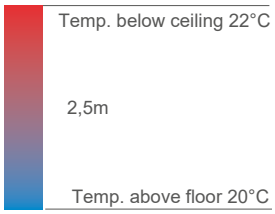
Temperature distribution in a room with a height of 4m – correction 6°C



Temperature distribution in a room with a height of 3,2m – correction 4°C



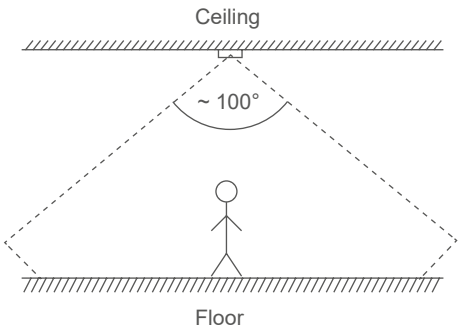
Temperature distribution in a room with a height of 2,5m – correction 2°C

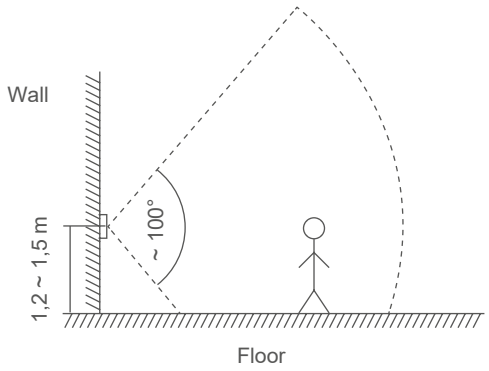


INTEGRATION WITH THE NIM09 MOTION SENSOR

Thanks to the small sensor, the air-conditioner intelligently detects motion and automatically starts operation, ensuring energy saving and comfort conditions.







*NIM09 sensor measuring range

Model	NIM09
Dimensions (height x width x depth) cm	4,6x3x2,6

CHOICE OF FOUR OPERATION MODES

Indoor unit can be turned off after 30 or 60 minutes from the moment the user has left the room with the automatic operation recovery, in case of sensing human movement or with the necessity of turning the unit on by the user.

TECHNICAL SPECIFICATIONS

			NEW					NEW
Model			**MI2-17Q4CDN1**	**MI2-22Q4CDN1**	**MI2-28Q4CDN1**	**MI2-36Q4CDN1**	**MI2-45Q4CDN1**	**MI2-52Q4CDN1**
Panel			CE-MBQ-03C4	CE-MBQ-03C4	CE-MBQ-03C4	CE-MBQ-03C4	CE-MBQ-03C4	CE-MBQ-03C4
Power supply (V/phase/Hz)			220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling capacity (rated) (*1)		kW	1.7	2.2	2.8	3.6	4.5	5.2
Cooling input power		kW	0.035	0.035	0.035	0.04	0.05	0.062
Heating capacity (rated) (*2)		kW	2.2	2.4	3.2	4.0	5.0	5.6
Heating input power		kW	0.035	0.035	0.035	0.04	0.05	0.062
Heat exchanger	Corrosion protection		Hydrophilic coating					
Air-flow rate (*3)		m^3/h	238/268/288/300/313/345/380	238/268/288/313/345/380/414		314/350/380/409/450/485/521		350/380/410/446/481/580/635
Sound pressure level (*4)		dB(A)	22/23/26/29/33/34/35			28/29/30/32/35/38/41		28/29/30/32/35/48/52
Sound power level		dB(A)	38/39/42/45/49/50/51			43/44/45/47/50/53/56		43/44/45/47/50/55/60
Dimensions	Net dimensions (width x height x depth) (*5)	mm	630x260x570	630x260x570	630x260x570	630x260x570	630x260x570	630x260x570
	Net weight	kg	18	18	18	19.2	19.2	19.2
Panel	Dimensions (width x height x depth)	mm	647x50x647	647x50x647	647x50x647	647x50x647	647x50x647	647x50x647
	Net weight	kg	2.5	2.5	2.5	2.5	2.5	2.5
Refrigerant			R410A	R401A	R410A	R410A	R410A	R410A
Throttle			Electronic expansion valve					
Piping	Gas / liquid	mm	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7	Ø6.35 / Ø12.7

Note:
Capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Air-flow if specified from the highest do the lowest speed. In total there are 7 speeds available for each model..
(*4) Sound pressure level specified from the highest to the lowest speed. Pressure level measured at a distance of 1,4 m in front of the unit in an semianechoic chamber.
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(5*) Unit dimensions include the outermost points of the casing together with fittings.

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



Quiet unit with slim design, ideal for installation in narrow ceiling space.

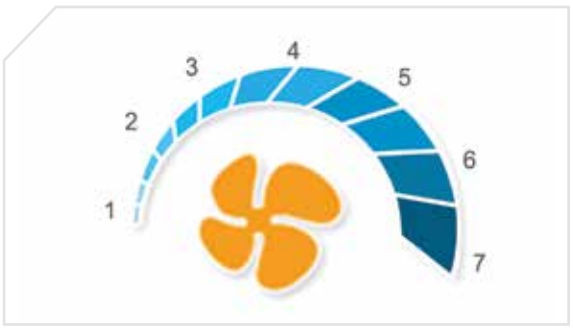
4-WAY CASSETTE

2,8 – 14,0 kW

UNIQUE FEATURES:

1 7 FAN SPEEDS

New motor of the DC type fan provides choice of 7 speeds. This enables very precise adjustment of the air-conditioner performance and as a result - thermal comfort conditions can be obtained much faster.



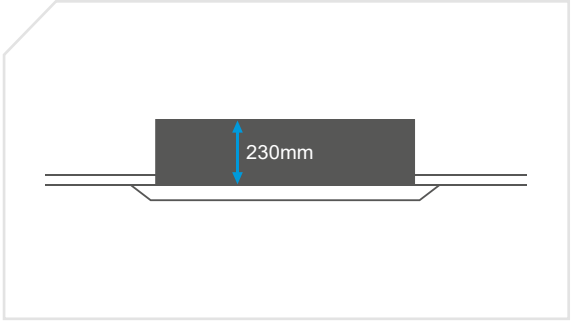
2 360° AIR OUTLET

360° air outlet provides optimum circulation and air-flow in every direction. Even air-flow and temperature distribution guarantee comfort conditions in a room.



3 ULTRA SLIM

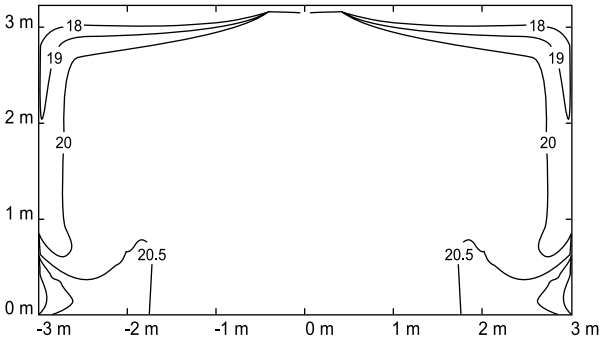
Ultra slim body, only 230 mm of height facilitates installtion in narrow ceiling space.



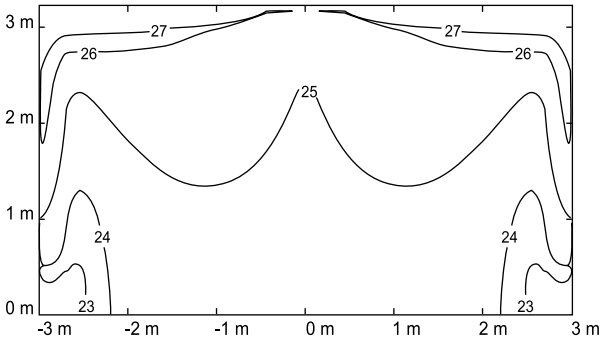
COANDA EFFECT

Thanks to the use of Coanda effect, treated air adheres to the ceiling surface and falls freely, overcoming the effect of draught. Ensures electric energy saving and simultaneously improves comfort of use.

Air distribution in cooling mode, room temperature 27°C



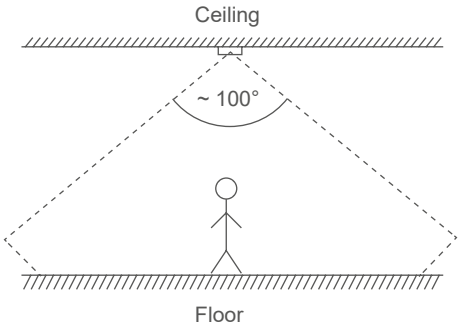
Air distribution in cooling mode, room temperature 20°C

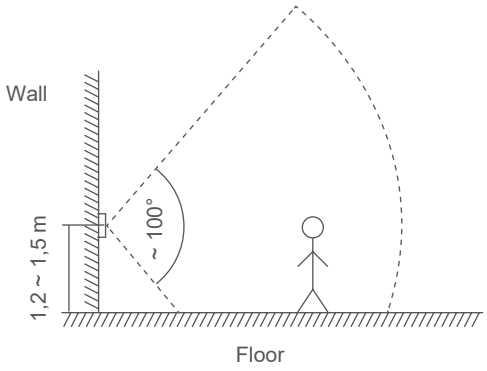


INTEGRATION WITH THE NIM09 MOTION SENSOR

Thanks to the small sensor, the air-conditioner intelligently detects motion and automatically starts operation, ensuring energy saving and comfort conditions.





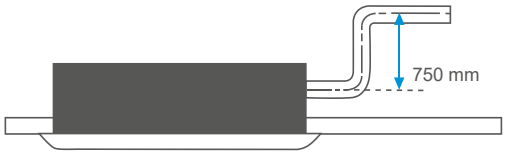


*NIM09 sensor measuring range

Model	NIM09
Dimensions (height x width x depth) cm	4,6x3x2,6

BUILT-IN DRAIN PUMP

Drain pump with 750mm pump head fitted as standard.



TECHNICAL SPECIFICATIONS

Model			MI2-28Q4DN1	MI2-36Q4DN1	MI2-45Q4DN1	MI2-56Q4DN1	MI2-71Q4DN1
Panel			T-MBQ4-01E	T-MBQ4-01E	T-MBQ4-01E	T-MBQ4-01E	T-MBQ4-01E
Power supply			1-phase 220-240V 50Hz				
Cooling	Rated capacity (*1)	kW	2.8	3.6	4.5	5.6	7.1
	Input power	kW	0.025	0.025	0.031	0.031	0.046
	Input current	A	0.11	0.11	0.13	0.13	0.20
Heating	Rated capacity (*2)	kW	3.2	4.0	5.0	6.3	8.0
	Input power	kW	0.025	0.025	0.031	0.031	0.046
	Input current	A	0.11	0.11	0.13	0.13	0.20
Heat exchanger	Corrosion protection		Hydrophilic coating				
Air-flow rate		m^3/h	677/732/788/832/ 877/935/ 982	677/732/788/832/ 877/935/ 982	704/756/801/ 857/899/ 957/1029	704/756/801/ 857/899/ 957/1029	748/866/920/ 996/1065/ 1132/1200
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	32/34/35/37/ 38/40/42	32/34/35/37/ 38/40/42	34/35/36/38/ 39/41/43	34/35/36/38/ 39/41/43	34/35/37/39/ 41/43/45
Unit dimensions	Net dimensions (width x height x depth)	mm	904x230x840	904x230x840	904x230x840	904x230x840	904x230x840
	Net weight	kg	21.3	21.3	23.2	23.2	23.2
Panel	Net dimensions (width x height x depth)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Net weight	kg	5	5	5	5	5
Refrigerant			R410A				
Throttle			Electronic expansion valve				
Piping	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø9.53	Ø9.53
	Gas	mm	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9

Notes:
Rated capacity jest podawana dla następujących warunków:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

TECHNICAL SPECIFICATIONS

Model			MI2-80Q4DN1	MI2-90Q4DN1	MI2-100Q4DN1	MI2-112Q4DN1	MI2-140Q4DN1
Panel			T-MBQ4-01E	T-MBQ4-01E	T-MBQ4-01E	T-MBQ4-01E	T-MBQ4-01E
Power supply			1-phase 220-240V 50Hz				
Cooling	Rated capacity (*1)	kW	8.0	9.0	10.0	11.2	14.0
	Input power	kW	0.048	0.075	0.075	0.075	0.094
	Input current	A	0.21	0.33	0.33	0.33	0.41
Heating	Rated capacity (*2)	kW	9.0	10.0	11.0	12.5	16.0
	Input power	kW	0.048	0.075	0.075	0.075	0.094
	Input current	A	0.21	0.33	0.33	0.33	0.41
Heat exchanger	Corrosion protection		Hydrophilic coating				
Air-flow rate		m^3/h	811/893/975/ 1055/1117/ 1195/1264	1034/1087/1154/ 1239/1365/ 1477/1596	1034/1087/1154/ 1239/1365/ 1477/1596	1034/1087/1154/ 1239/1365/ 1477/1596	1224/1289/1351/ 1426/1517/ 1622/1727
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	35/36/38/40/42/44/46	36/37/39/41/ 43/45/47	36/37/39/41/ 43/45/47	36/37/39/41/ 43/45/47	35/36/38/45/ 46/48/50
Unit dimensions	Net dimensions (width x height x depth)	mm	904x230x840	904x300x840	904x300x840	904x300x840	904x300x840
	Net weight	kg	23.2	28.4	28.4	28.4	30.7
Panel	Net dimensions (width x height x depth)	mm	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950	950x54.5x950
	Net weight	kg	5	5	5	5	5
Refrigerant			R410A				
Throttle			Electronic expansion valve				
Piping	Liquid	mm	Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø9.53
	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9

Notes:
Rated capacity jest podawana dla następujących warunków:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

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	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



Duct type units with compact body and energy saving feature, ensure installation flexibility and optimum operation.

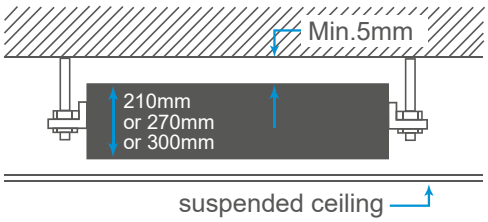
MEDIUM STATIC PRESSURE

1,7 – 14,0 kW

UNIQUE FEATURES:

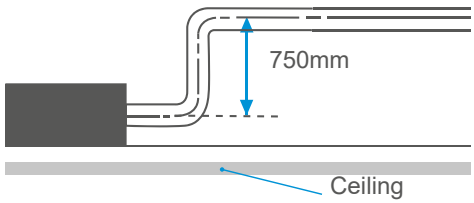
1 COMPACT DIMENSIONS

Unit height is only 210mm (17÷71 model) and 270mm (80÷112 model). Unit features a built-in electronic expansion EXV valve.



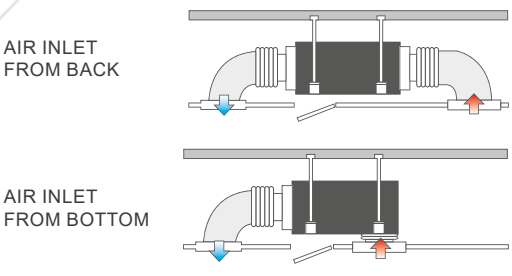
2 BUILT-IN DRAIN PUMP

Drain pump with 750mm pump head fitted as standard.



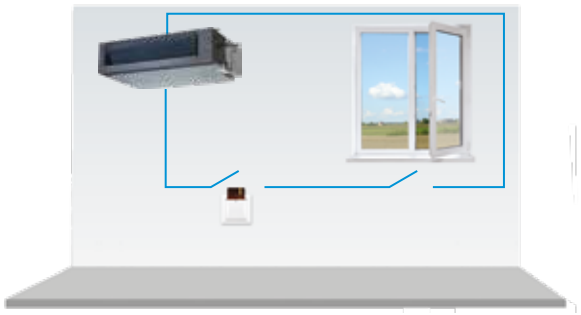
3 CONVENIENT INSTALLATION

EXV valve fitted inside the unit. Fresh air supply available. Inlet and outlet connection flanges as standard. A rear air inlet is standard and an inlet at the bottom is optional.



INTEGRATION WITH HOTEL KEY-CARD

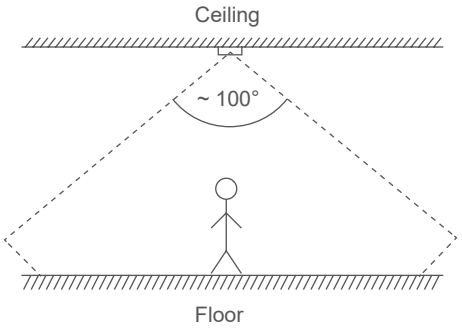
Standard integration with key-card and window contact, provides economy operation in such sites as guesthouse or hotel.

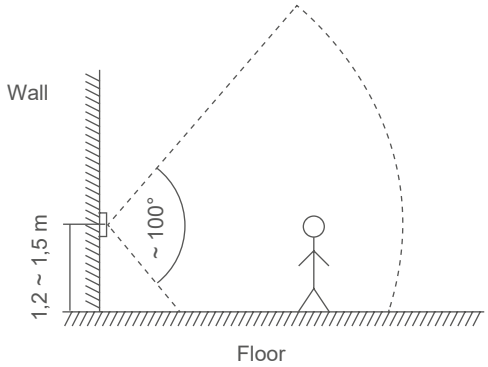


INTEGRATION WITH THE NIM09 MOTION SENSOR

Thanks to the small sensor, the air-conditioner intelligently detects motion and automatically starts operation, ensuring energy saving and comfort conditions.







*NIM09 sensor measuring range

Model	NIM09
Dimensions (height x width x depth) cm	4,6x3x2,6

DIVERSITY OF APPLICATIONS

- Precisely adjusts the room temperature.
- Sophisticated appearance makes it suitable for different interiors.

CHOICE OF FOUR OPERATION MODES

Indoor unit can be turned off after 30 or 60 minutes from the moment the user has left the room with the automatic operation recovery, in case of sensing human movement or with the necessity of turning the unit on by the user.

7 FAN SPEEDS

New motor of the DC type fan provides choice of 7 speeds. This enables very precise adjustment of the air-conditioner performance and as a result - thermal comfort conditions can be obtained much faster.

TECHNICAL SPECIFICATIONS

			NEW					
Model			**MI2-17T2DN1**	**MI2-22T2DN1**	**MI2-28T2DN1**	**MI2-36T2DN1**	**MI2-45T2DN1**	**MI2-56T2DN1**
Power supply			1-phase 220-240V 50Hz					
Cooling	Rated capacity (*1)	kW	1.7	2.2	2.8	3.6	4.5	5.6
	Input power	kW	0.04	0.04	0.04	0.045	0.092	0.092
Heating	Rated capacity (*2)	kW	2.2	2.6	3.2	4.0	5.0	6.3
	Input power	kW	0.04	0.04	0.04	0.045	0.092	0.092
Heat exchanger	Corrosion protection		Hydrophilic coating					
Air-flow rate		m^3/h	300/330/360/ 400/440/ 480/490	300/330/360/ 400/440/ 480/520	300/330/360/ 400/440/ 480/520	370/400/430/ 460/500/ 540/580	400/480/540/ 620/680/ 740/800	560/600/640/ 680/720/ 760/830
Available static pressure		Pa	10 (0~50)	10(0~50)	10(0~50)	10(0~50)	10(0~50)	10 (0~50)
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	32/31/29/ 28/26/25/23	31/32/33/34/ 34/35/35	31/32/33/34/ 34/35/35	33/34/35/36/ 36/37/37	33/34/35/ 36/37/37/38	33/34/35/36/ 37/38/38
Dimensions	Net dimensions (width x height x depth)	mm	780x210x500	780x210x500	780x210x500	780x210x500	1000x210x500	1000x210x500
	Net weight	kg	18	18	18	18	21.5	21.5
Refrigerant			R410A					
Throttle			Electronic expansion valve					
Piping	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.53
	Gas	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

TECHNICAL SPECIFICATIONS

Model			MI2-71T2DN1	MI2-80T2DN1	MI2-90T2DN1	MI2-112T2DN1	MI2-140T2DN1
Power supply							
Cooling	Rated capacity (*1)	kW	7.1	8.0	9.0	11.2	14.0
	Input power	kW	0.098	0.11	0.12	0.2	0.25
Heating	Rated capacity (*2)	kW	8.0	9.0	10.0	12.5	15.5
	Input power	kW	0.098	0.11	0.12	0.2	0.25
Heat exchanger	Corrosion protection		Hydrophilic coating				
Air-flow rate		m^3/h	680/720/780/ 840/900/ 960/1000	780/860/940/ 1020/1100/ 1180/1260	780/860/940/ 1020/1100/ 1180/1260	1080/1140/1210/ 1290/1360/ 1430/1500	1360/1460/1560/ 1660/1760/ 1860/1960
Available static pressure		Pa	10(0~50)	20(10~100)	20(10~100)	20(10~100)	40(30~150)
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	34/35/36/37/ 38/39/40	37/38/39/41/ 42/43/44	37/38/39/41/ 42/43/44	37/39/41/43/ 44/46/47	38/39/41/43/ 44/46/47
Dimensions	Net dimensions (width x height x depth)	mm	1220x210x500	1230x270x775	1230x270x775	1230x270x775	1290x300x865
	Net weight	kg	27.5	36.5	37	37	46.5
Refrigerant							
Throttle							
Piping	Liquid	mm	Ø9.53	Ø9.53	Ø9.53	Ø9.53	Ø9.53
	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

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	AX-KN64	EiB KNX up to 64 indoor units



HIGH STATIC PRESSURE

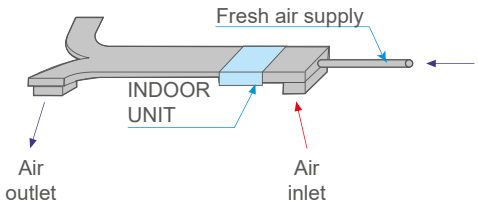
High static pressure increases flexibility of duct system design, while maintaining interior aesthetics.

7,1 – 56,0 kW

UNIQUE FEATURES:

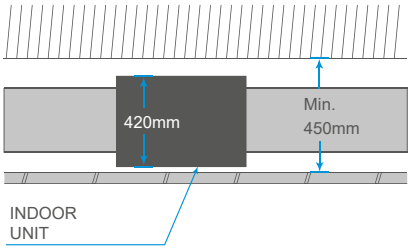
1 FLEXIBLE DESIGN OF AIR SUPPLY DUCT

External static pressure up to 300 Pa provides installation of extensive ventilation duct works that distribute air from the air-conditioner. Cooperation with HFB system (Healthy Function Box) available.



2 COMPACT DESIGN

Minimum ceiling cavity space is 450mm (indoor height is 420mm for 71÷160 models).



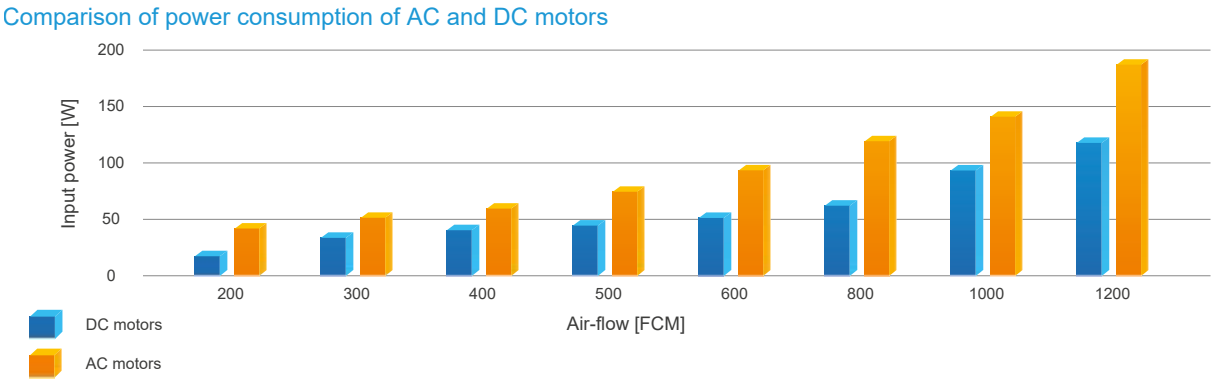
3 7 FAN SPEEDS

New motor of the DC type fan provides choice of 7 speeds. This enables very precise adjustment of the air-conditioner performance and as a result - thermal comfort conditions can be obtained much faster.



FANS WITH DC MOTORS

Application of DC motor increases fan efficiency up to 90%. As compared with AC motors, the electric energy consumption of the DC motors is even 30% lower.

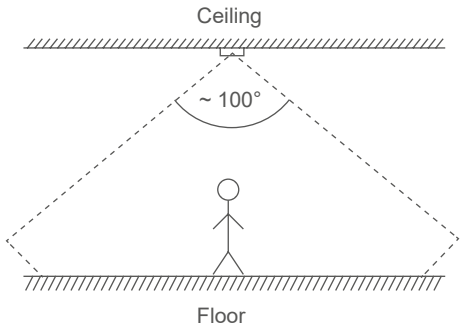


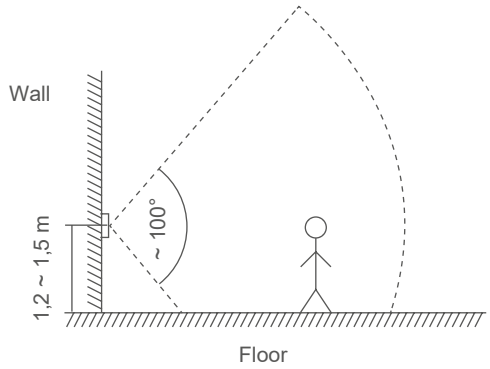
Thanks to the application of DC motors, the high pressure duct type units comply with the latest requirements of the EC certification.

INTEGRATION WITH THE NIM09 MOTION SENSOR

Thanks to the small sensor, the air-conditioner intelligently detects motion and automatically starts operation, ensuring energy saving and comfort conditions.







*NIM09 sensor measuring range

Model	NIM09
Dimensions (height x width x depth) cm	4,6x3x2,6

DIVERSITY OF APPLICATIONS

- Precisely adjusts the room temperature.
- Sophisticated appearance makes it suitable for different interiors.

CHOICE OF FOUR OPERATION MODES

Indoor unit can be turned off after 30 or 60 minutes from the moment the user has left the room with the automatic operation recovery, in case of sensing human movement or with the necessity of turning the unit on by the user.

TECHNICAL SPECIFICATIONS

Model			MI2-71T1DN1	MI2-80T1DN1	MI2-90T1DN1	MI2-112T1DN1	MI2-140T1DN1	MI2-160T1DN1
Power supply			1-phase 220-240V 50Hz					
Cooling	Rated capacity (*1)	kW	7,1	8,0	9,0	11,2	14,0	16,0
	Input power	kW	0,18	0,18	0,22	0,38	0,42	0,7
	Input current	A	0,78	0,78	0,96	1,65	1,83	3,04
Heating	Rated capacity (*2)	kW	8,0	9,0	10,0	12,5	16,0	17,0
	Input power	kW	0,18	0,18	0,22	0,38	0,42	0,7
	Input current	A	0,78	0,78	0,96	1,65	1,83	3,04
Heat exchanger	Corrosion protection		Hydrophilic coating					
Air-flow rate		m^3/h	1159/1197/1234/1264/1296/1333/1360	1159/1197/1234/1264/1296/1333/1360	1151/1195/1237/1285/1328/1378/1428	1354/1429/1528/1614/1695/1775/1886	1601/1707/1818/1927/2033/2127/2258	1879/2013/2099/2239/2354/2501/2608
Available static pressure		Pa	100(30~200)	100(30~200)	100(30~200)	100(30~200)	100(30~200)	100(30~200)
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	42/43/44/45/45/46/46	42/43/44/45/45/46/46	45/46/47/48/48/49/50	45/46/47/48/49/50/50	48/49/50/51/51/52/53	50/50/51/52/53/54/54
Dimensions	Net dimensions (width x height x depth)	mm	952x420x690	952x420x690	952x420x690	952x420x690	1300x420x690	1300x420x690
	Net weight	kg	41	41	51	51	63	63
Refrigerant			R410A					
Throttle			Electronic expansion valve					
Piping	Liquid	mm	Ø9,53	Ø9,53	Ø9,53	Ø9,53	Ø9,53	Ø9,53
	Gas	mm	Ø15,9	Ø15,9	Ø15,9	Ø19,1	Ø19,1	Ø19,1

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
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Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
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Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
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	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

TECHNICAL SPECIFICATIONS

Model			MI2-200T1DN1	MI2-250T1DN1	MI2-280T1DN1	MI2-400T1DN1	MI2-450T1DN1	MI2-560T1DN1
Power supply			1-phase 220-240V 50Hz					
Cooling	Rated capacity (*1)	kW	20,0	25,0	28,0	40.0	45.0	56.0
	Input power	kW	0,99	1,2	1,2	1,8	1,8	2,27
	Input current	A	4,30	5,22	5,22	7,83	7,83	9,87
Heating	Rated capacity (*2)	kW	22,5	26,0	31,5	45.0	56.0	63.0
	Input power	kW	0,99	1,2	1,2	1,8	1,8	2,27
	Input current	A	4,30	5,22	5,22	7,83	7,83	9,87
Heat exchanger	Corrosion protection		Hydrophilic coating					
Air-flow rate		m^3/h	3745/3837/3941/ 4043/4144/ 4237/4358	3745/3837/3941/ 4043/4144/ 4237/4358	3745/3837/3941/ 4043/4144/ 4237/4358	4400/4750/5100/ 5450/5800/ 6150/6500	4400/4750/5100/ 5450/5800/ 6150/6500	5000/5400/5800/ 6200/6600/ 7000/7400
Available static pressure		Pa	170(20~250)	170(20~250)	170(20~250)	300 (100~300)	300 (100~300)	300 (100~300)
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	50/52/53/54/ 55/56/57	50/52/53/54/ 55/56/57	50/52/53/54/ 55/56/57	52/54/55/57/ 58/59/60	52/54/55/57/ 58/59/60	51/53/55/56/ 57/58/59
Dimensions	Net dimensions (width x height x depth)	mm	1440x505x925	1440x505x925	1440x505x925	2005x929x670	2005x929x670	2005x929x670
	Net weight	kg	130	130	130	210	210	218
Refrigerant			R410A					
Throttle			Electronic expansion valve					
Piping	Liquid	mm	Ø12,7	Ø12,7	Ø12,7	Ø15.9	Ø15.9	Ø15.9
	Gas	mm	Ø22,2	Ø22,2	Ø22,2	Ø28.6	Ø28.6	Ø28.6

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

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Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
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	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



100% FRESH AIR

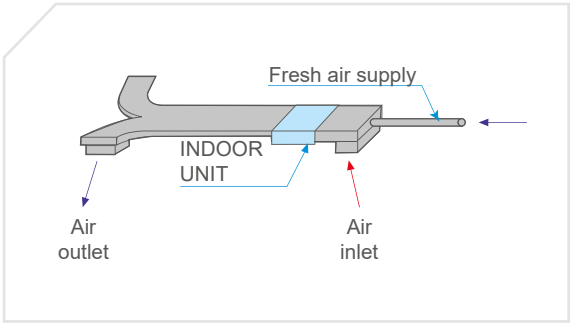
Fresh air supply with full temperature control, guarantees comfort and healthy room environment.

12,5 – 14,0 kW

UNIQUE FEATURES:

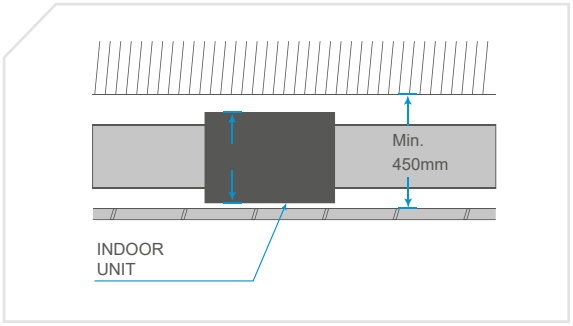
1 FLEXIBLE DESIGN OF AIR SUPPLY DUCT

7 fan speeds. External static pressure u pto 250Pa. Cooperation with HFB system (Healthy Function Box) available.



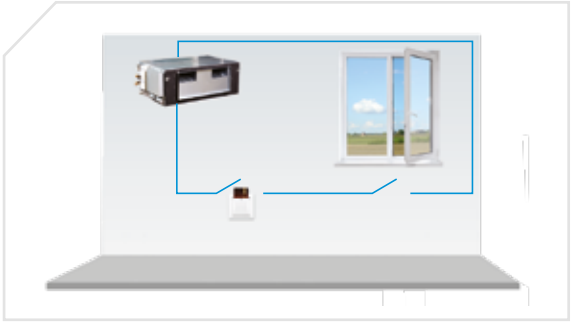
2 COMPACT DESIGN

Minimum ceiling cavity space is 450mm (indoor height is 423mm for 125÷140 models).



3 ON/OFF POTENTIAL FREE INPUT AND ALARM OUTPUT

As a standard, all indoor units are equipped with one potential free port intended to remotely switch on and off the air-conditioner. This provides communication of the device with window or door contact, motion sensor or hotel key-card. The air-conditioner is also fitted with an alarm port that sends information about unit faults.



WDC-86 CONTROLLER

WDC-86 wired controller with FOLLOW ME function is supplied as standard. LED display is pre-wired into an electric control box E-Box - simplified error code identification. Electric control E-Box can be placed at a maximum distance of 1 m from the indoor unit, in a place more available for handling. The EXV valve fitted on the liquid pipe is very easy to install and disassemble. Functional, remote on/off ports, output alarm port (220V).

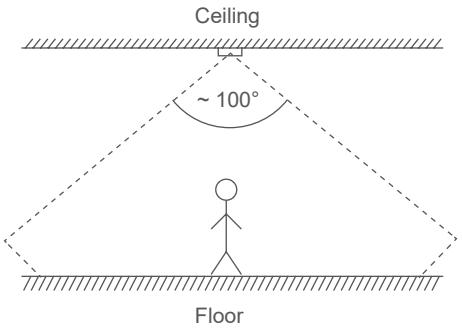
FLEXIBLE CONTROL

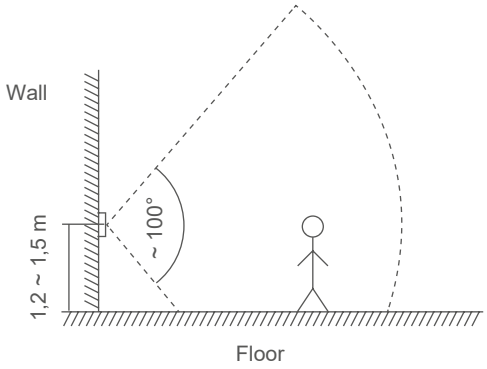
Temperature is measured with:
1. A sensor built-in to the unit, installed on the opposite side of the fresh air flange.
2. Dedicated WDS-86 controller with a temperature sensor.
3. Outdoor temperature sensor.
4. Compensation of temperature measured in relation to the unit installation height.

INTEGRATION WITH THE NIM09 MOTION SENSOR

Thanks to the small sensor, the air-conditioner intelligently detects motion and automatically starts operation, ensuring energy saving and comfort conditions.







*NIM09 sensor measuring range

Model	NIM09
Dimensions (height x width x depth) cm	4,6x3x2,6

DIVERSITY OF APPLICATIONS

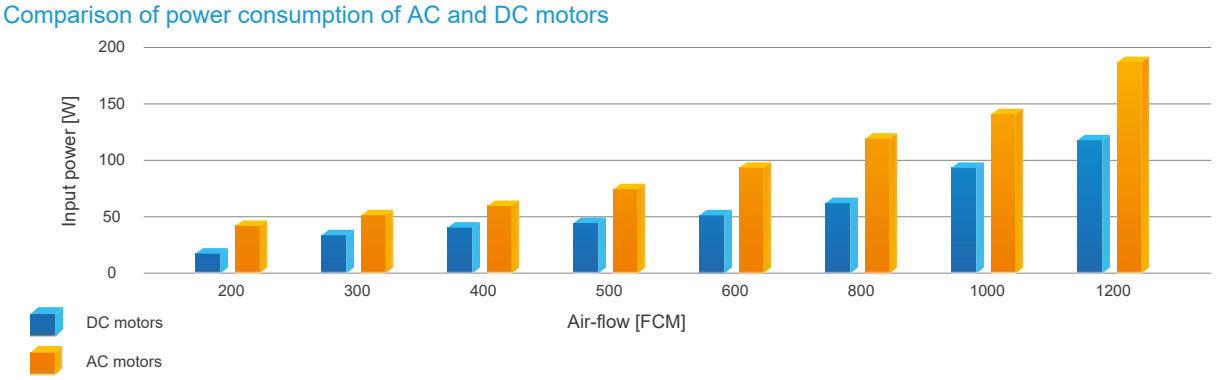
- Precisely adjusts the room temperature.
- Sophisticated appearance makes it suitable for different interiors.

CHOICE OF FOUR OPERATION MODES

Indoor unit can be turned off after 30 or 60 minutes from the moment the user has left the room with the automatic operation recovery, in case of sensing human movement or with the necessity of turning the unit on by the user.

FANS WITH DC MOTORS

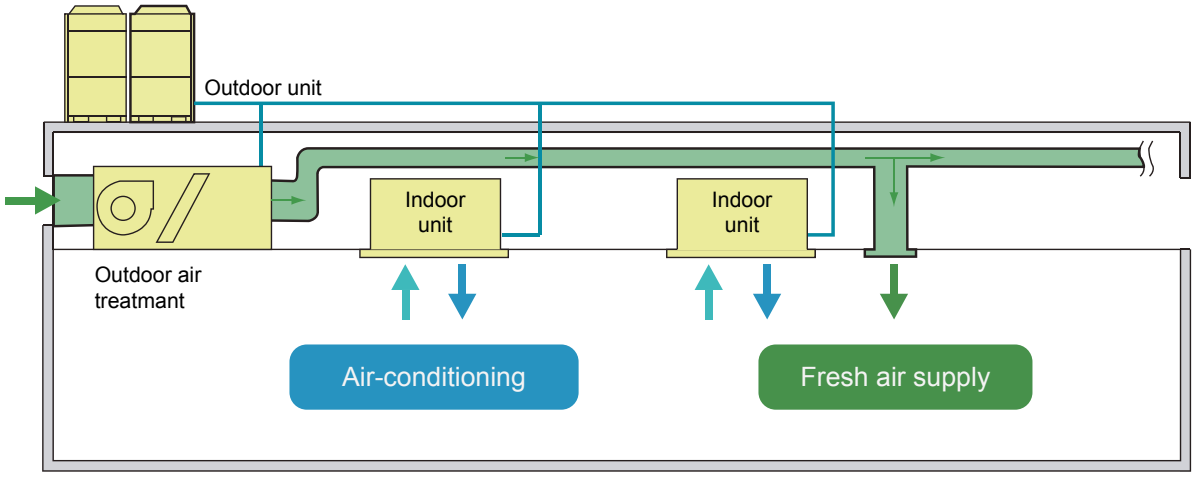
Application of DC motor increases fan efficiency up to 90%. As compared with AC motors, the electric energy consumption of the DC motors is even 30% lower.



Thanks to the application of DC motors, the fresh air processing units comply with the latest requirements of the EC certification.

INNOVATIVE TECHNOLOGY

Duct units with fresh air supply can be used in one refrigerant system with other types of indoor units, thereby improving installation flexibility.



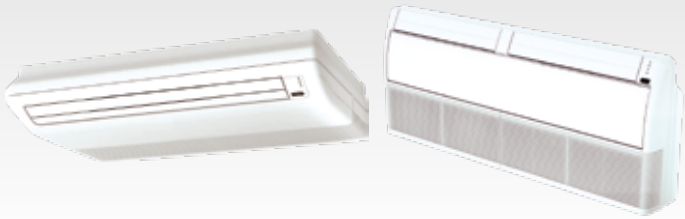
TECHNICAL SPECIFICATIONS

Model			MI2-125FADN1	MI2-140FADN1
Power supply			1-phase 220-240V 50/60Hz	
Cooling	Rated capacity (*1)	kW	12.5	14.0
	Input power	kW	0.48	0.48
	Input current	A	2.09	2.09
Heating	Rated capacity (*2)	kW	10.5	12.0
	Input power	kW	0.48	0.48
	Input current	A	2.09	2.09
Heat exchanger	Corrosion protection		Hydrophilic coating	
Air-flow rate		m^3/h	1500/1583/1667/1750/1833/1917/2000	1500/1583/1667/1750/1833/1917/2000
Available static pressure		Pa	180(30~200)	180(30~200)
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	42/43/44/45/46/47/48	42/43/44/45/46/47/48
Dimensions	Net dimensions (width x height x depth)	mm	1322x423x691	1322x423x691
	Net weight	kg	68	68
Refrigerant			R410A	
Throttle			Electronic expansion valve	
Piping	Liquid	mm	Ø9.53	Ø9.53
	Gas	mm	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: outdoor temperature 33°C DB/28°C WB
(*2) Heating: outdoor temperature 0°C DB/ -2.9°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



These units enable vertical and horizontal installation, providing freedom of designing the air-conditioned space. Air-filters available.

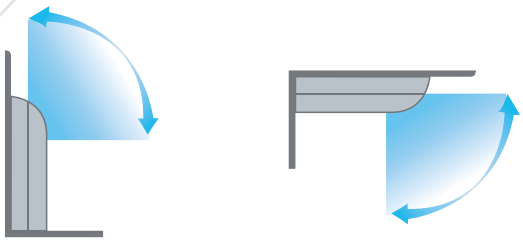
INDOOR UNITS

3,6 – 14,0 kW

UNIQUE FEATURES:

1 CONVENIENT INSTALLATION

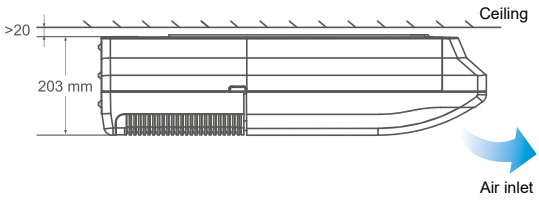
Easy and convenient installation below the ceiling, even in narrow corner space (e.g. when installation in the central part of ceiling is impossible due to the presence of such obstacles like lighting or joists). On the other hand, installing a unit on the floor level facilitates air-conditioning of rooms with slanted ceilings.



Vertical and horizontal installation

2 LONG DISTANCE AIR-FLOW

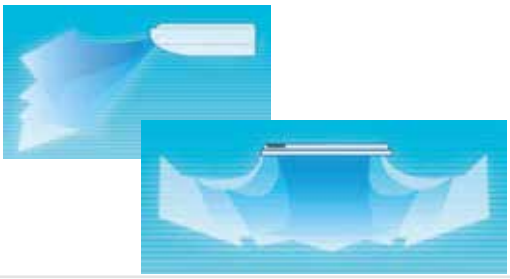
By combining the above mentioned benefits with a long distance air-flow (reaching up to 7 m), we get a complex solution that provides us with thermal comfort.



UP TO 7m

3 AUTO SWING FUNCTION AND A WIDE ANGLE AIR-FLOW

This unit is equipped with automatic horizontal and vertical swing functions. This provides even air-flow in a room. Application of the electronic expansion EXV valve ensures precise performance adjustment, while keeping noise at low level. Thanks to the multi-blade fan impeller, the air-flow is smooth, turbulence free, which improves comfort.



QUIET OPERATION

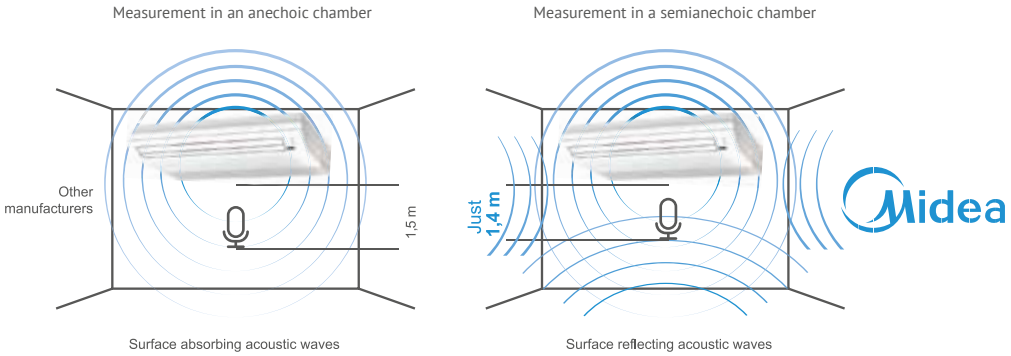
The newly designed air-flow control technology enables reduction of sound pressure level down to 36 dB(A), ensuring quiet operation of the units.

7 FAN SPEEDS

New motor of the DC type fan provides choice of 7 speeds. This enables very precise adjustment of the air-conditioner performance and as a result - thermal comfort conditions can be obtained much faster.

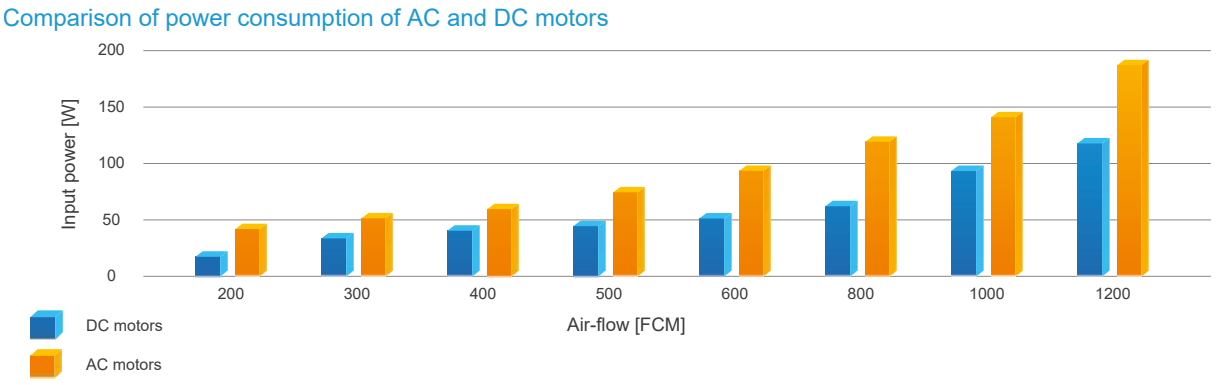
THE HIGHEST QUALITY OF NOISE MEASUREMENT

Striving for perfection in matching actual operating conditions of the units, Midea performs noise measurements in a semi-anechoic chamber. The chamber has a solid floor that does not absorb acoustic wave - waves reflect from the floor similarly as in rooms. Owing to this, the measurement of relevant operating noise is more reliable and captures actual comfort of use. Additionally, the measurements of noise level generated by Midea indoor units is performed at a distance of just 1,4 m. That is 10 cm closer than in standard sound measurements! This results from the manufacturer's will to match natural operating conditions of the air-conditioner.



FANS WITH DC MOTORS

Application of DC motor increases fan efficiency up to 90%. As compared with AC motors, the electric energy consumption of the DC motors is even 30% lower.



Thanks to the application of DC motors, the ceiling-floor units comply with the latest requirements of the EC certification.

TECHNICAL SPECIFICATIONS

Model			MI2-36DLDN1	MI2-45DLDN1	MI2-56DLDN1	MI2-71DLDN1
Power supply			1-phase 220-240V 50Hz			
Cooling	Rated capacity (*1)	kW	3.6	4.5	5.6	7.1
	Input power	kW	0.049	0.115	0.115	0.115
	Input current	A	0.21	0.50	0.50	0.50
Heating	Rated capacity (*2)	kW	4.0	5.0	6.3	8.0
	Input power	kW	0.049	0.115	0.115	0.115
	Input current	A	0.21	0.50	0.50	0.50
Air-flow rate		m^3/h	420/440/460/480/ 500/525/550	420/440/460/480/ 500/525/550	720/755/792/830/ 860/895/930	720/755/792/830/ 860/895/930
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	36/36/37/38/38/39/40	36/36/37/38/38/39/40	38/38/39/41/41/42/43	38/38/39/41/41/42/43
Refrigerant			R410A			
Throttle		type	Electronic expansion valve			
Dimensions	Net dimensions (width x height x depth)	mm	990x660x203	990x660x203	990x660x203	990x660x203
	Net weight	kg	26	26	28	28
Piping	Liquid	mm	Ø6.35	Ø6.35	Ø9.53	Ø9.53
	Gas	mm	Ø12.7	Ø12.7	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

TECHNICAL SPECIFICATIONS

Model			MI2-80DLDN1	MI2-90DLDN1	MI2-112DLDN1	MI2-140DLDN1
Power supply			1-phase 220-240V 50Hz			
Cooling	Rated capacity (*1)	kW	8.0	9.0	11.2	14.0
	Input power	kW	0.13	0.13	0.18	0.18
	Input current	A	0.57	0.57	0.78	0.78
Heating	Rated capacity (*2)	kW	9.0	10.0	12.5	15.0
	Input power	kW	0.13	0.13	0.18	0.18
	Input current	A	0.57	0.57	0.78	0.78
Air-flow rate		m^3/h	1050/1085/1130/1170/ 1210/1245/1280	1050/1085/1130/1170/ 1210/1245/1280	1580/1620/1660/1700/ 1765/1830/1890	1580/1620/1660/1700/ 1765/1830/1890
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	40/41/42/43/43/44/45	40/41/42/43/43/44/45	42/43/44/45/45/46/47	42/43/44/45/45/46/47
Refrigerant			R410A			
Throttle		type	Electronic expansion valve			
Dimensions	Net dimensions (width x height x depth)	mm	1280x660x203	1280x660x203	1670x680x244	1670x680x244
	Net weight	kg	35	35	48	48
Piping	Liquid	mm	Ø9.53	Ø9.53	Ø9.53	Ø9.53
	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
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	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
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Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
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	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



New design and elegant structure make these units perfectly fit into various interiors. Air filters available.

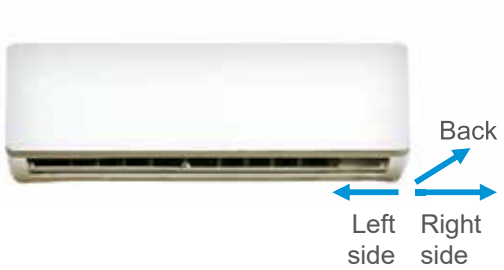
INDOOR UNITS

1,7 – 9,0 kW

UNIQUE FEATURES:

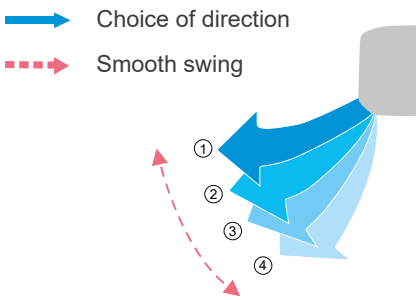
1 CONVENIENT AND EASY INSTALLATION

Flexible refrigerant piping installation: from the back, from the left or right side. The EXV valve built-in to the indoor unit; compact body; longer connection pipes: gas 468mm, liquid 550mm. New installation plate significantly facilitates installation.



2 AUTOMATIC SWING

Option to set automatic, smooth "air swing" or adjust the air-flow in the desired direction.



3 SIMPLE MAINTENANCE

Openable front panel significantly facilitates access to the maintenance space (cleaning, filter replacement, electric connections).



IMPROVEMENT OF THE REFRIGERANT FLOW CONTROL

Application of the electronic expansion valve provides precise control of refrigerant flow (full change of valve opening is 2000 steps) and lowers noise generated during valve operation. Three air-flow speeds and a multi-blade fan impeller provide smooth and turbulence free air-flow, which improves comfort.

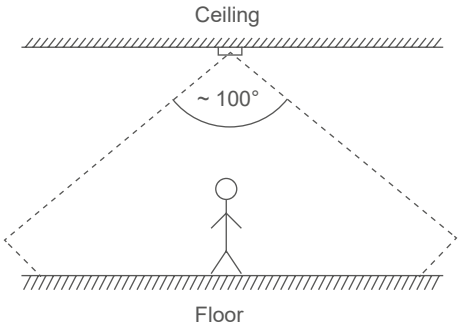
INTEGRATION WITH HOTEL KEY-CARD

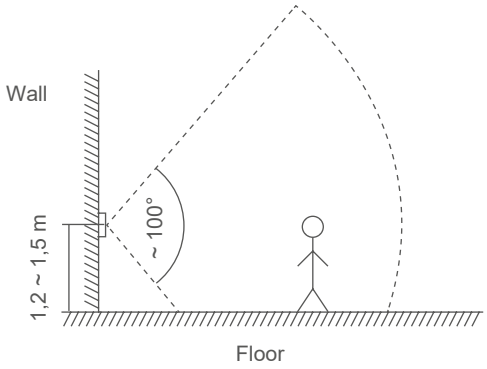
Standard integration with key-card and window contact, provides economy operation in such sites as guesthouse or hotel.

INTEGRATION WITH THE NIM09 MOTION SENSOR

Thanks to the small sensor, the air-conditioner intelligently detects motion and automatically starts operation, ensuring energy saving and comfort conditions.





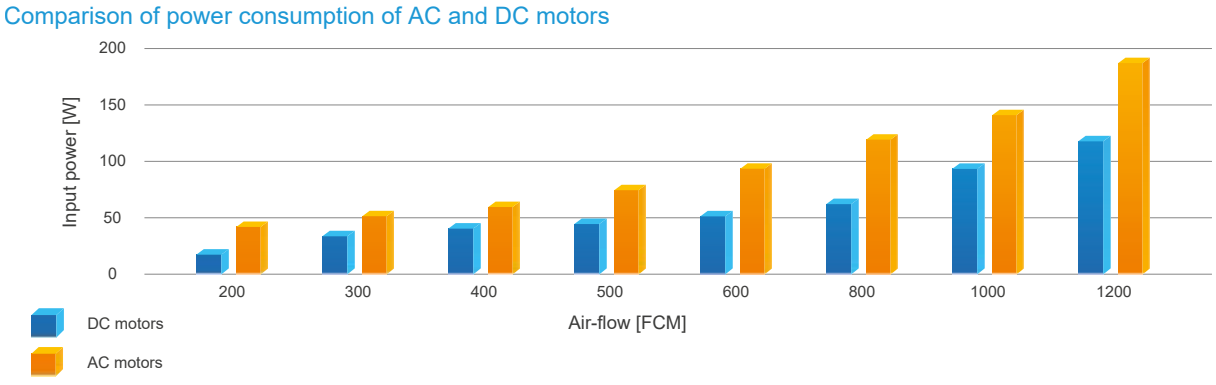


*NIM09 sensor measuring range

Model	NIM09
Dimensions (height x width x depth) cm	4,6x3x2,6

FANS WITH DC MOTORS

Application of DC motor increases fan efficiency up to 90%. As compared with AC motors, the electric energy consumption of the DC motors is even 30% lower.



Thanks to the application of DC motors, the wall-mounted units comply with the latest requirements of the EC certification.

TECHNICAL SPECIFICATIONS

			NEW				
Model			**MI2-17GDN1**	**MI2-22GDN1**	**MI2-28GDN1**	**MI2-36GDN1**	**MI2-45GDN1**
Power supply		V/ph/Hz	1-phase, 220-240V, 50Hz				
Cooling	Rated capacity (*1)	kW	1.7	2.2	2.8	3.6	4.5
	Input power	kW	0.028	0.028	0.028	0.03	0.04
Heating	Rated capacity (*2)	kW	2.2	2.4	3.2	4.0	5.0
	Input power	kW	0.028	0.028	0.028	0.03	0.04
Heat exchanger	Corrosion protection		Hydrophilic coating				
Air-flow rate		m^3/h	356/386/378/385/393/402/411	356/368/380/393/402/411/422	316/338/353/370/386/402/417	488/515/544/573/591/628/656	424/450/478/507/535/563/594
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	31/30/30/30/29/29/29	29/29/29/30/30/30/31	29/29/29/30/30/30/31	30/30/31/31/32/32/33	31/31/32/33/33/34/35
Dimensions	Net dimensions (width x height x depth)	mm	835x280x203	835×280×203	835×280×203	990×315×223	990×315×223
	Net weight	kg	8.4	8.4	9.5	11.4	12.8
Refrigerant			R410A				
Throttle			Electronic expansion valve				
Piping	Liquid	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø6.35
	Gas	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø12.7

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
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	NIM09	Motion sensor
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	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

TECHNICAL SPECIFICATIONS

Model			MI2-56GDN1	MI2-71GDN1	MI2-80GDN1	MI2-90GDN1
Power supply		V/ph/Hz	1-phase, 220-240V, 50Hz			
Cooling	Rated capacity (*1)	kW	5.6	7.1	8.0	9.0
	Input power	kW	0.045	0.055	0.055	0.082
Heating	Rated capacity (*2)	kW	6.3	8.0	9.0	10.0
	Input power	kW	0.045	0.055	0.055	0.082
Heat exchanger	Corrosion protection		Hydrophilic coating			
Air-flow rate		m^3/h	547/578/613/648/ 685/713/747	809/875/940/1005/ 1065/1130/1195	809/875/940/1005/ 1065/1130/1195	867/934/1005/1067/ 1125/1300/1421
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	34/34/35/36/36/37/38	36/37/38/39/42/43/44	36/37/38/39/42/43/44	38/40/41/43/45/46/48
Dimensions	Net dimensions (width x height x depth)	mm	990×315×223	1194×343×262	1194×343×262	1194×343×262
	Net weight	kg	12.8	17.0	17.0	17.0
Refrigerant			R410A			
Throttle			Electronic expansion valve			
Piping	Liquid	mm	Ø9.53	Ø9.53	Ø9.53	Ø9.53
	Gas	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
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	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



Concealed floor standing type

F3 SERIES



Air intake from front

F4 SERIES



Air intake from below

F5 SERIES

Low floor type air-conditioners are perfect for rooms with limited installation space on ceiling and walls.

2,2 – 8,0 kW

UNIQUE FEATURES:

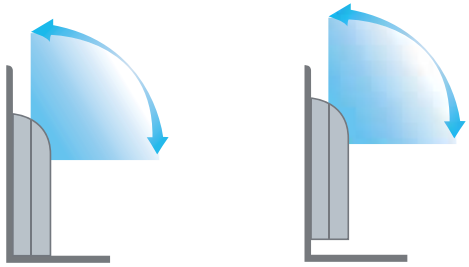
1 COMPACT DESIGN

Standing unit with the option of enclosed installation, matches any interior design. 212 mm of depth additionally simplifies installation. Low noise level and effective operation create perfect comfort in a room.



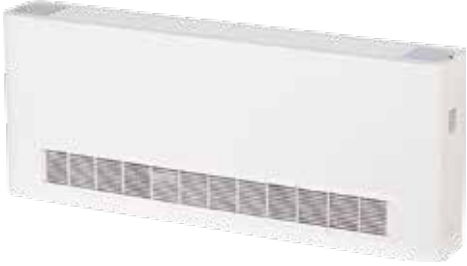
2 SIMPLE INSTALLATION

Compact body units can be easily hung on the wall or installed on the floor and also on the limited space e.g. in rooms with slanted ceilings.



3 EASY MAINTENANCE

High quality filters are provided as a standard accessory. It can be removed and cleaned easily thanks to sophisticated and innovative design. The streamlined appearance harmonizes the unit with any room's interior decor. All metal parts are made of commercial grade galvanized steel for maximum protection against corrosion.



TECHNICAL SPECIFICATIONS

F3 SERIES

Model			MI2-22F3DN1	MI2-28F3DN1	MI2-36F3DN1	MI2-45F3DN1	MI2-56F3DN1	MI2-71F3DN1	MI2-80F3DN1
Power supply			1-phase 220-240V 50Hz						
Cooling	Rated capacity (*1)	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Input power	kW	0.04	0.045	0.055	0.06	0.088	0.11	0.13
	Input current	A	0.17	0.20	0.24	0.26	0.38	0.48	0.57
Heating	Rated capacity (*2)	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
	Input power	kW	0.04	0.045	0.055	0.06	0.088	0.11	0.13
	Input current	A	0.17	0.20	0.24	0.26	0.38	0.48	0.57
Heat exchanger	Corrosion protection		Hydrophilic coating						
Air-flow rate		m^3/h	400/418/439/456/478/504/530	421/443/462/485/515/540/569	375/420/473/522/557/591/624	440/475/501/542/583/625/660	830/886/925/970/1028/1094/1150	830/886/925/970/1028/1094/1150	870/955/1033/1100/1205/1290/1380
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	29/30/31/33/34/35/36	29/30/31/33/34/35/36	30/31/32/34/35/36/37	30/31/32/34/35/36/37	31/32/33/35/37/39/41	31/32/33/35/37/39/41	33/35/37/39/40/42/44
Dimensions	Net dimensions (width x height x depth)	mm	840x545x212	840x545x212	1036x639x305	1036x639x305	1340x545x212	1340x545x212	1340x545x212
	Net weight	kg	21	21	25.5	25.5	30.5	30.5	32
Refrigerant			R410A						
Throttle			Electronic expansion valve						
Piping	Gas	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52
	Liquid	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

TECHNICAL SPECIFICATIONS

F4 SERIES

Model			MI2-22F4DN1	MI2-28F4DN1	MI2-36F4DN1	MI2-45F4DN1	MI2-56F4DN1	MI2-71F4DN1	MI2-80F4DN1
Power supply			1-phase 220-240V 50Hz						
Cooling	Rated capacity (*1)	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Input power	kW	0.04	0.045	0.055	0.06	0.088	0.11	0.13
	Input current	A	0.17	0.20	0.24	0.26	0.38	0.48	0.57
Heating	Rated capacity (*2)	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
	Input power	kW	0.04	0.045	0.055	0.06	0.088	0.11	0.13
	Input current	A	0.17	0.20	0.24	0.26	0.38	0.48	0.57
Heat exchanger	Corrosion protection		Hydrophilic coating						
Air-flow rate		m^3/h	400/418/439/456/478/504/530	421/443/462/485/515/540/569	375/420/473/522/557/591/624	440/475/501/542/583/625/660	830/886/925/970/1028/1094/1150	870/955/1033/1100/1205/1290/1380	870/955/1033/1100/1205/1290/1380
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	29/30/31/33/34/35/36	29/30/31/33/34/35/36	30/31/32/34/35/36/37	30/31/32/34/35/36/37	31/32/33/35/37/39/41	33/35/37/39/40/42/44	33/35/37/39/40/42/44
Dimensions	Net dimensions (width x height x depth)	mm	1000x596x225	1000x596x225	1200x596x225	1200x596x225	1500x596x225	1500x596x225	1500x596x225
	Net weight	kg	28	28	33	33	40	40	41.5
Refrigerant			R410A						
Throttle			Electronic expansion valve						
Piping	Gas	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52
	Liquid	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
	CCM15	Central controller WEB, up to 64 indoor units
	IMMP-M	Communication interface for the Intelligent Midea Manager
	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

TECHNICAL SPECIFICATIONS

MODEL F5

Model			MI2-22F5DN1	MI2-28F5DN1	MI2-36F5DN1	MI2-45F5DN1	MI2-56F5DN1	MI2-71F5DN1	MI2-80F5DN1
Power supply			1-phase 220-240V 50Hz						
Cooling	Rated capacity (*1)	kW	2.2	2.8	3.6	4.5	5.6	7.1	8.0
	Input power	kW	0.04	0.045	0.055	0.06	0.088	0.11	0.13
	Input current	A	0.17	0.20	0.24	0.26	0.38	0.48	0.57
Heating	Rated capacity (*2)	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
	Input power	kW	0.04	0.045	0.055	0.06	0.088	0.11	0.13
	Input current	A	0.17	0.20	0.24	0.26	0.38	0.48	0.57
Heat exchanger	Corrosion protection		Hydrophilic coating						
Air-flow rate		m^3/h	400/418/439/456/478/504/530	421/443/462/485/515/540/569	375/420/473/522/557/591/624	440/475/501/542/583/625/660	830/886/925/970/1028/1094/1150	870/955/1033/1100/1205/1290/1380	870/955/1033/1100/1205/1290/1380
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	29/30/31/33/34/35/36	29/30/31/33/34/35/36	30/31/32/34/35/36/37	30/31/32/34/35/36/37	31/32/33/35/37/39/41	33/35/37/39/40/42/44	33/35/37/39/40/42/44
Dimensions	Net dimensions (width x height x depth)	mm	1000x677x220	1000x677x220	1200x677x220	1200x677x220	1500x677x220	1500x677x220	1500x677x220
	Net weight	kg	28	28	33	33	40.4	40.4	41.5
Refrigerant			R410A						
Throttle			Electronic expansion valve						
Piping	Gas	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52
	Liquid	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7	Ø15.9	Ø15.9	Ø15.9

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb
(*3) Sound pressure level measured in an semianechoic chamber

CONTROL SYSTEM

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	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units

NEW



INDOOR UNITS

Console type floor air-conditioners present a combination of modern design and functionality.

2,2 – 4,5 kW

UNIQUE FEATURES:

1 COMPACT DESIGN, ELEGANT LOOK

Units with sophisticated style, helps maintain a free wall surface. Thanks to the compact dimensions and possibility to install the unit on the wall, near the floor, they facilitate arrangement of any room.



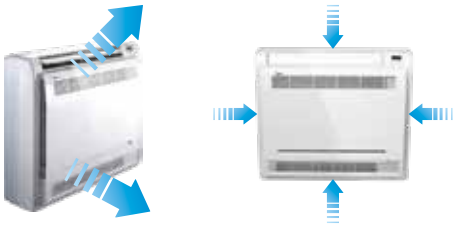
2 HIGH COMFORT

Flexible air-flow adjustment: vertical swing function and wide angle of louver setting provide efficient and effective air distribution throughout the whole room. Application of the electronic expansion valve provides precise control of refrigerant flow (full change of valve opening is 2000 steps) and lowers noise generated during valve operation.



3 TWO AIR OUTLETS, FOUR AIR INLETS

Comfort temperature conditions thanks to different air circulation options. Upper and lower air outlets provide optimum and efficient air distribution in a room.



Air outlet Air inlet

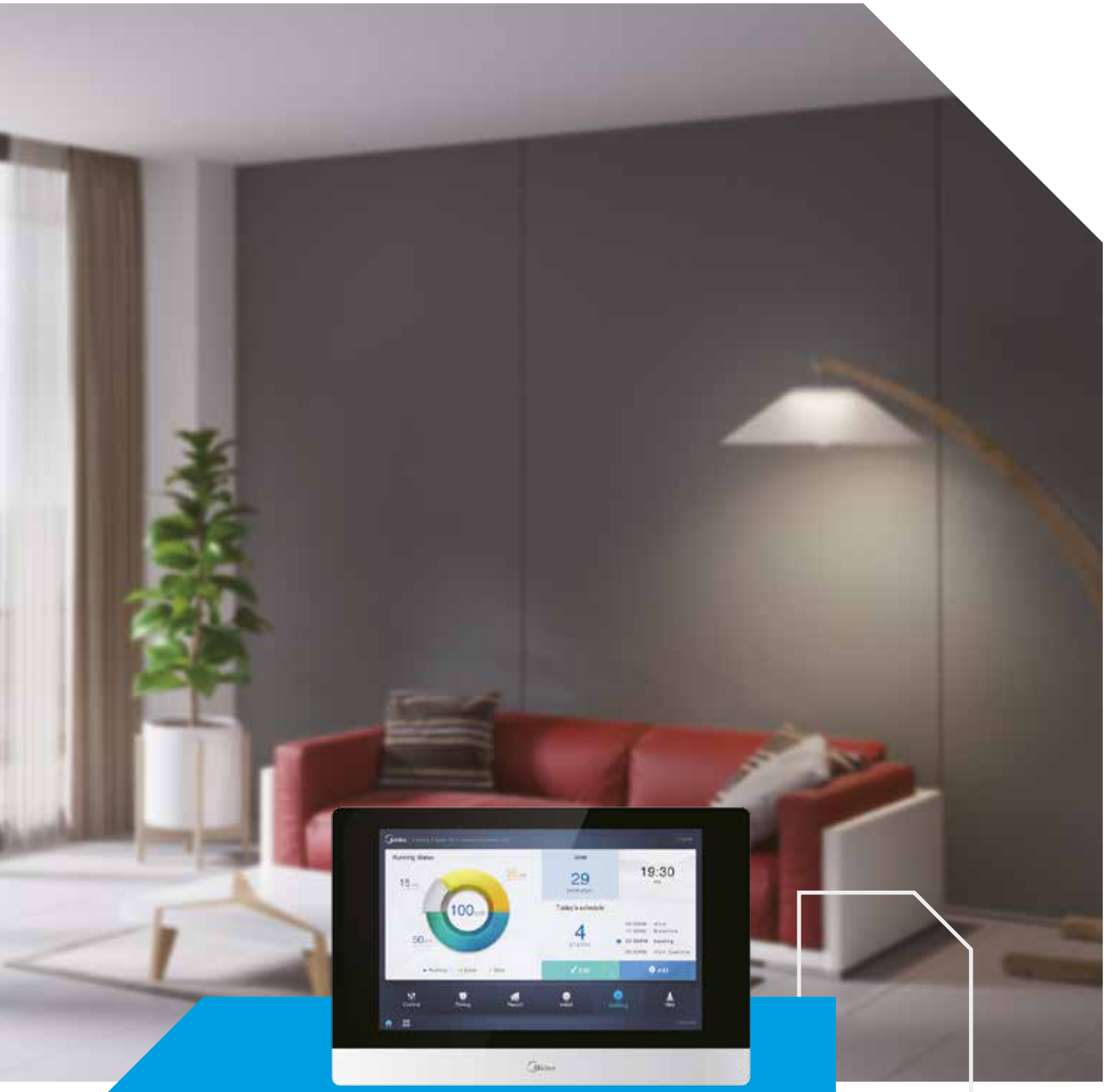
TECHNICAL SPECIFICATIONS

			NEW			
Model			**MI2-22ZDN1**	**MI2-28ZDN1**	**MI2-36ZDN1**	**MI2-45ZDN1**
Power supply			1-phase 220-240V 50Hz			
Cooling	Rated capacity (*1)	kW	2.2	2.8	3.6	4.5
	Input power	kW	0.02	0.025	0.025	0.035
	Input current	A	0.29	0.32	0.33	0.42
Heating	Rated capacity (*2)	kW	2.6	3.2	4.0	5.0
	Input power	kW	0.02	0.025	0.025	0.035
	Input current	A	0.29	0.32	0.33	0.42
Fan motor	Type		DC	DC	DC	DC
Heat exchanger	Corrosion protection		Hydrophilic coating			
Air-flow rate (speed 1/2/3/4/5/6/7)		m^3/h	229/268/302/345/ 374/401/430	229/286/355/430/ 456/482/510	229/286/335/430/ 456/482/510	400/436/478/510/ 561/614/660
Sound pressure level (speed 1/2/3/4/5/6/7) (*3)		dB(A)	26/27/28/32/34/35/38	27/29/31/33/35/37/39	27/29/31/33/35/37/39	36/36/37/39/40/41/42
Sound power level (speed 1/2/3/4/5/6/7)		dB(A)	42/43/44/48/50/52/54	43/45/47/49/51/53/55	43/45/47/49/51/53/55	52/52/53/55/56/57/58
Dimensions	Net dimensions (width x height x depth) (*4)	mm	700x600x210	700x600x210	700x600x210	700x600x210
	Net weight	kg	14	15	15	15
Refrigerant			R410A			
Throttle			Electronic expansion valve			
Protections		A	15	15	15	15
Piping	Gas	mm	Ø6.35	Ø6.35	Ø6.35	Ø6.35
	Liquid	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7

Notes:
Rated capacity is based on the following conditions:
(*1) Cooling: indoor temperature 27°C DB/19°C WB; outdoor temperature 35°C DB/24°C WB
(*2) Heating: indoor temperature 20°C DB/15°C WB; outdoor temperature 7°C DB/6°C WB
(*3) Sound pressure level measured in an semianechoic chamber
(*4) Unit dimensions include the outermost points of the casing together with fittings.
Refrigerant piping length water side 8 m, the height difference is 0.
DB - dry bulb. WB - wet bulb

CONTROL SYSTEM

Individual control	RM12D	Wireless remote controller
	WDC-86E/KD	Wired remote controller with flat touch screen and Follow Me function
	WDC-120G/WK	Wired remote controller with group control and weekly timer
Central controllers	CCM-180A/WS	Central controller with colour, LCD touch screen, up to 64 indoor units
	CCM-270B/WS	Central controller with colour, LCD touch screen, up to 384 indoor units
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	IMMP-BAC	Communication interface for the Intelligent Midea Manager (with BMS gateway function over BACnet protocol)
	IMMP-S	Software for the Intelligent Midea Manager
Interfaces/accessories	DTS634/DT636	Electric energy meter for the IMM system
	NIM09	Motion sensor
BMS	GW-MOD	ModBus up to 64 indoor units
	GW-LON	LonWorks up to 64 indoor units
	GW-KNX	KNX for 1 indoor unit
	IMMP-BAC	BACnet up to 256 indoor units
	AC-KNX1	EiB KNX for one indoor unit
	AC-KNX16	EiB KNX up to 16 indoor units
	AX-KN64	EiB KNX up to 64 indoor units



CONTROL

dedicated for VRF systems



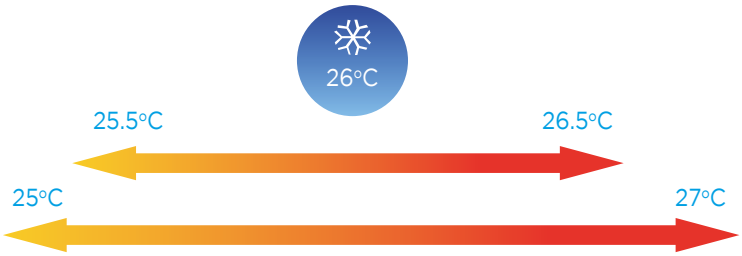
RM12D

FUNCTIONS

Model	RM12D
On / Off	●
Mode selection	●
Temperature setting	● (0.5°C or 1°C steps)
7-speed fan control	●
Auto swing	●
5-step swing louver	●
Address setting	●
Follow me	●
Eco mode	●
Night silent mode	●
Display shut-off	●
Keyboard lock	●
Daily timer	●
Background light	●
Dimensions (H×W×D) (mm)	170×48×20
Batteries	1.5V (LR03/AAA) × 2

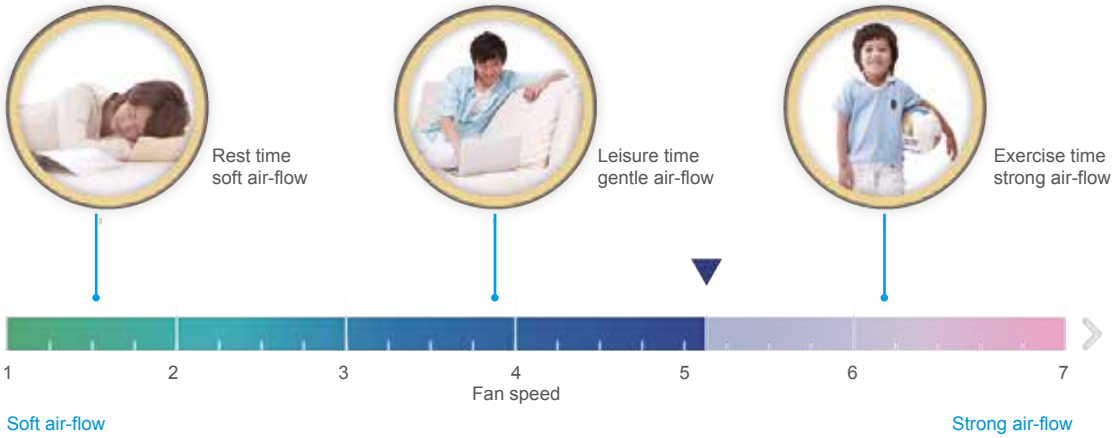
TEMPERATURE SETTING

Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.



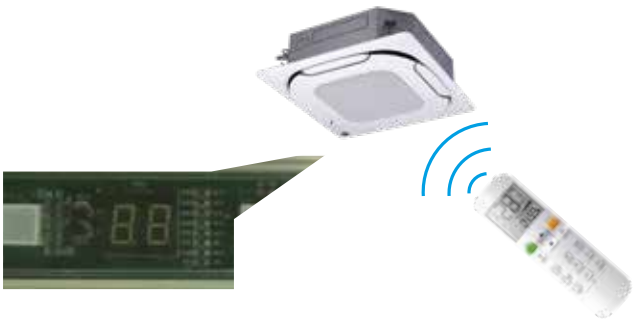
7-SPEED FAN CONTROL

7 available indoor fan speeds enable ultra-precise adjustment of air-conditioner performance. Thus, the thermal comfort conditions can be reached even faster.



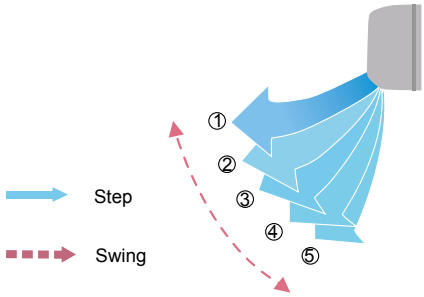
DISPALY SHUT-OFF

Indoor unit displays can be shut off at night, creating a better environment for rest.



5-STEP SWING LOUVER

Option to set automatic, smooth air swing and adjust the air-flow in the desired direction.



FOLLOW ME

With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in to the wireless remote controller, rather than the temperature sensor in the indoor unit itself, enabling more precise control of the temperature in the user's immediate environment.



ECO MODE

Eco mode saves energy whilst retaining a comfortable indoor environment.





WDC-86E/KD



WDC-120G/WK

FUNCTIONS

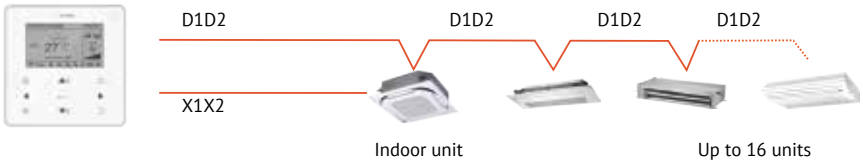
Model	WDC-86E/KD	WDC-120G/WK
Mode selection	●	●
On / Off	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
Dual temperature set points	●	●
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Address setting	●	●
Follow me	●	●
Eco mode	●	●
Room temperature display	●	●
°F / °C	●	●
Keyboard lock	–	●
Background light	●	●
Daily timer	●	●
Weekly schedule timer	–	●
Auto restart	●	●
2 permission levels	–	●
Group control	●	●
Bi-directional communication	–	●
Display shut-off	●	●
Main or secondary controller setting	●	●
Night silent mode	●	●
Remote signal receiver	●	●
Clean filter reminder	●	●
Extension function	–	●
Clock display	–	●
Daylight saving time	–	●
Error check function	●	●
System parameter querying	●	●
Dimensions (WxHxD) (mm)	●	●
System setting control	86x86x18	120x120x20
Power supply	18V DC	18V DC

● function available

– function unavailable

GRUP CONTROL

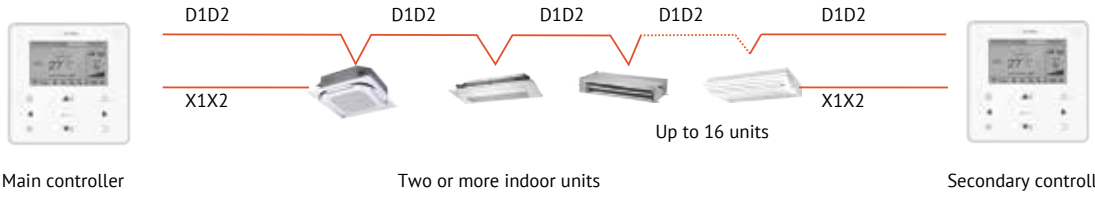
One controller can be used to unify the settings across up to 16 indoor units.



MAIN OR SECONDARY CONTROLLER SETTING

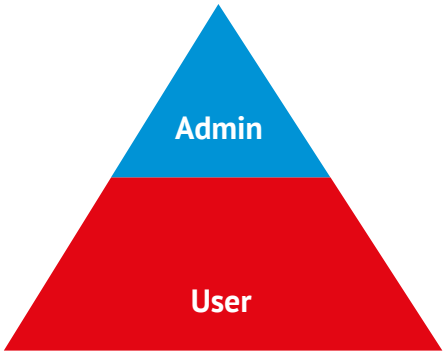
Two controllers can be used together, with the indoor units' operating mode and settings being set according to the most recent instruction received. The controller display screens are synchronized so that both displays update when a setting is adjusted.





2 PERMISSION LEVELS

2 permission levels ensure users can easily access control functions and allow administrators convenient access to operating parameters.



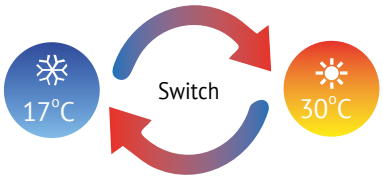
EXTENSION FUNCTION

The extension function is specifically designed for users working overtime. Pressing the delay button postpones system shutdown by 1 or 2 hours.



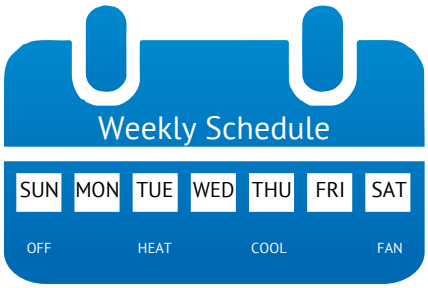
DUAL TEMPERATURE SET POINTS

With dual temperature set point control, the set temperature changes automatically when the operating mode is changed.



WEEKLY SCHEDULE TIMER

The weekly schedule timer allows users to set multiple schedules each with its own operating mode, temperature settings and fan speeds.



BI-DIRECTIONAL COMMUNICATION

The wired controller can query the system operating parameters thanks to the new bi-directional communication functionality. In addtion, settings including static pressure, cold draft prevention and temperature compensation can be configured on the wired controller.





CCM-180A/WS



CCM-270B/WS



CCM30

FUNCTIONS

Model	CCM-180A/WS	CCM-270B/WS	CCM30
Max. number of indoor units	64	384	64
Max. number of refrigerant systems	8	48	–
Touch screen	● (6.2-cali)	● (10.1-cali)	–
Mode selection	●	●	●
On / Off	●	●	●
Temperature setting	● (0.5°C lub 1°C)	● (0.5°C lub 1°C)	●
Dual temperature set points	●	●	●
7-speed fan control	●	●	●
Auto swing	●	●	●
5-step swing louver	●	●	●
Room temperature display	–	●	●
Outdoor unit Eco mode setting	●	●	●
Holiday setting	●	●	●
°C/°F display	●	●	●
Schedule management	●	●	–
Clock display	●	●	●
Daily timer	●	●	●
Weekly timer	●	●	–
2 permission levels	●	●	●
Extension function	●	–	●
Unit model recognition	●	●	●
Electricity charge distribution	–	●	–
Visual schematic	–	●	–
Energy management	●	●	–
Group management	●	●	●
Error check function	●	●	●
System parameter querying	●	–	●
USB output	Error report	Error report, operation record and electricity consumption report	●
Report display			
Operation log	–	●	●
LAN access	–	●	●
languages supported	Polish, English, French, Spanish	Polish, English, French, Spanish	–
Dimensions (W×H×D) (mm)	182x123x34	270×183×27	270×183×27
Power supply	12V DC	24V AC	24V AC

● Function available

– Function unavailable

TOUCH SCREEN

Colorful touch screen and vivid display make operation more convenient and simple.



ELECTRICITY CHARGE DISTRIBUTION

The controllers use the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.



ENERGY MANAGEMENT

User can set limits or locks on an indoor unit, such as minimum cooling temperature, maximum heating temperature, fan speed, operation mode, swing lock, remote controller lock and wired controller lock.



VISUAL SCHEMATIC

By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.



GROUP MANAGEMENT

Units can be viewed according to group, system or location, making unit management clearer and more convenient.



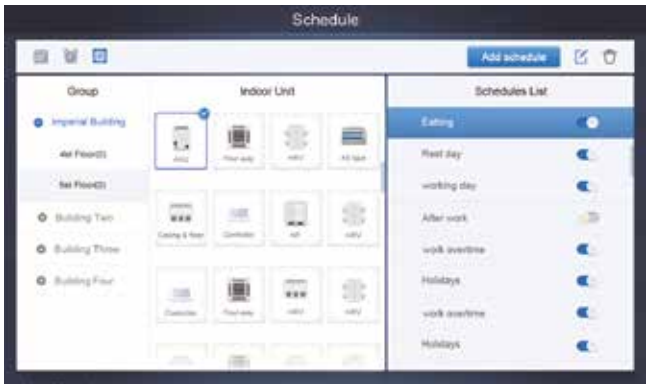
OUTDOOR UNIT CONFIGURATION

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.



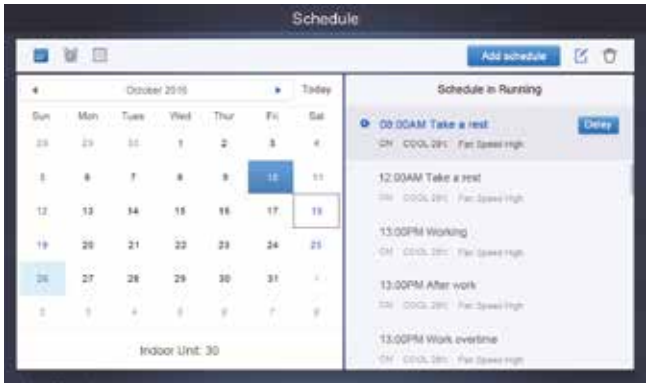
UNIT MODEL RECOGNITION

The controller recognizes the model of indoor and outdoor units and different models are represented by different icons.



SCHEDULE MANAGEMENT

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



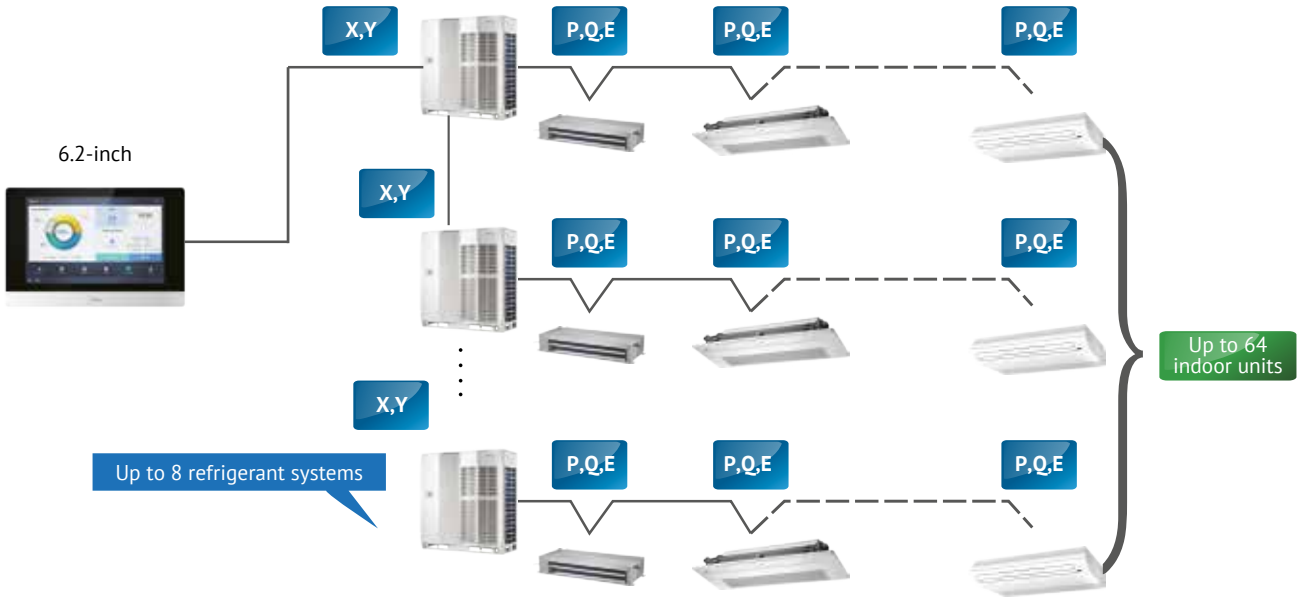
LAN ACCESS

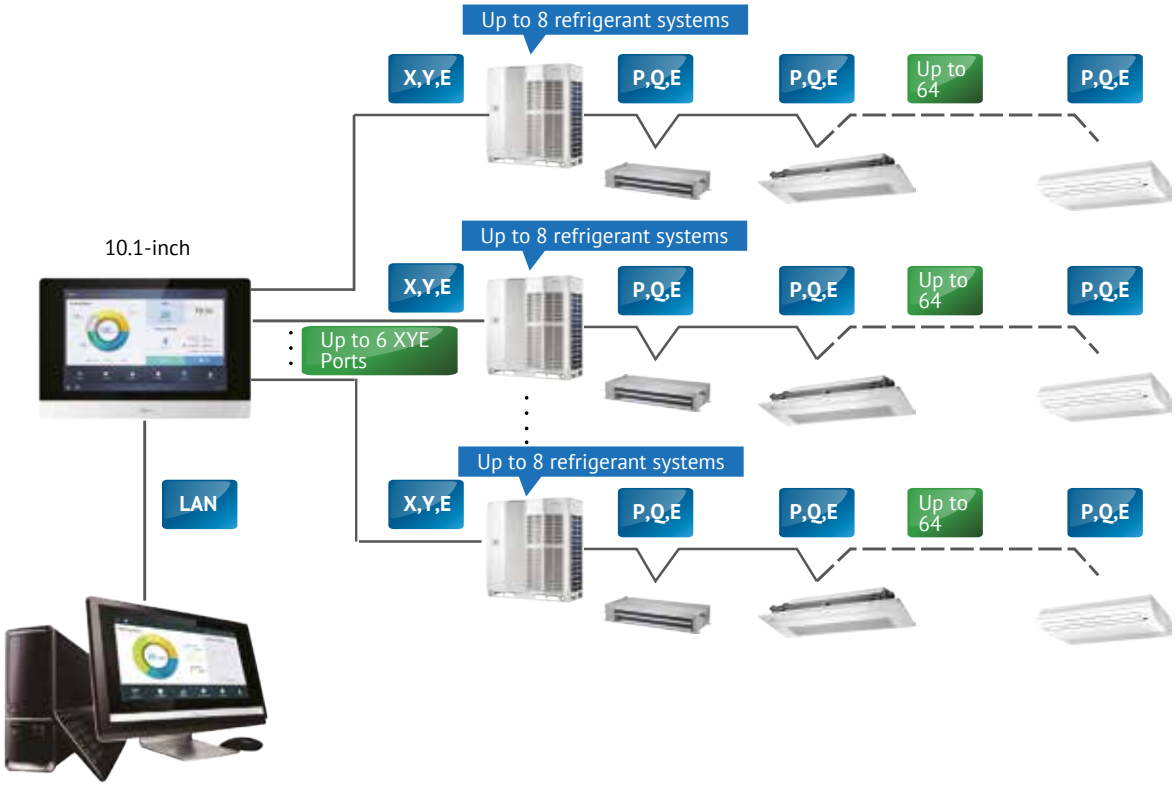
A desktop or laptop PC can be used for browser-based access via a LAN connection.



WIRING FLEXIBILITY

The controllers can be connected to the master outdoor unit directly.







IMMP-BAC



CCM-270B/WS



IMMP-S (SOFTWARE)

FUNCTIONS

Model	IMMP-BAC	CCM-270B/WS
Max. number per IMM system	10	10
Max. number of indoor units	2560	3840
Max. number of refrigerant systems	320	480
Temperature setting	● (0.5°C)	● (0.5°C)
Dual temperature set points	●	●
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Outdoor unit Eco mode setting	●	●
Holiday setting	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Unit model recognition	●	●
Electricity charge distribution	●	●
Visual schematic	●	●
Energy management	●	●
Group management	●	●
Error check function	●	●
System parameter querying	●	●
Report output	●	●
Operation log	●	●
LAN access	●	●
Data backup	●	●
Remote VPN access	●	●
Languages supported	Polish, English, French, Spanish	Polish, English, French, Spanish
Dimensions (W×H×D) (mm)	251×319×66	270×183×27
Power supply	1-phase, 100-240V, 50/60Hz	24V AC

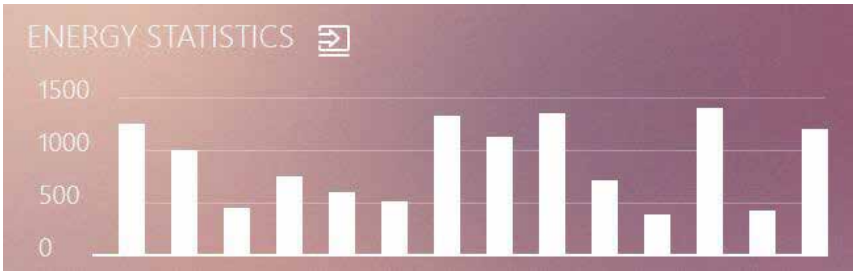
OUTDOOR UNIT **CONFIGURATION**

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.



ELECTRICITY CHARGE **DISTRIBUTION**

The IMMPRO uses the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.



VISUAL SCHEMATIC

By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.



PUBLIC AND IDLE DEVICES

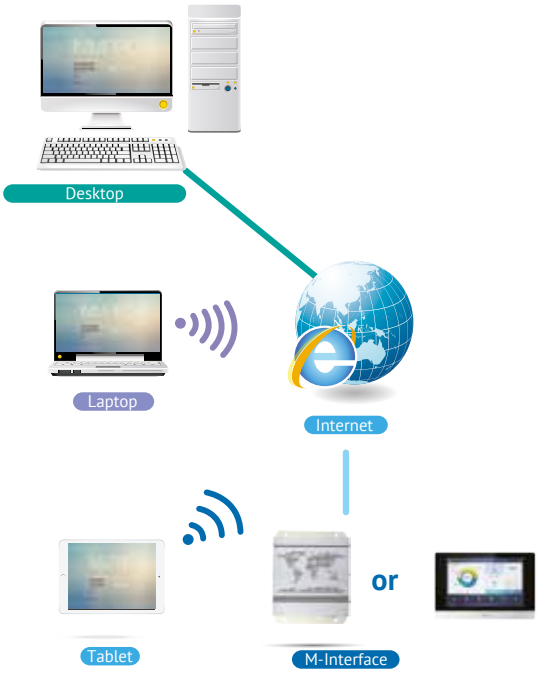
Marking a unit as a public device or idle device ensures the electricity charge distribution is more accurate and reasonable.

SCHEDULE MANAGEMENT

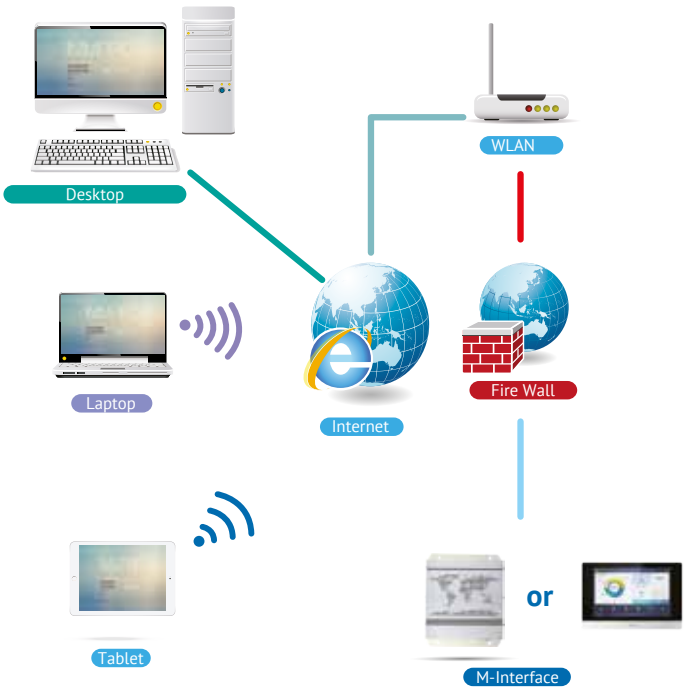
Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



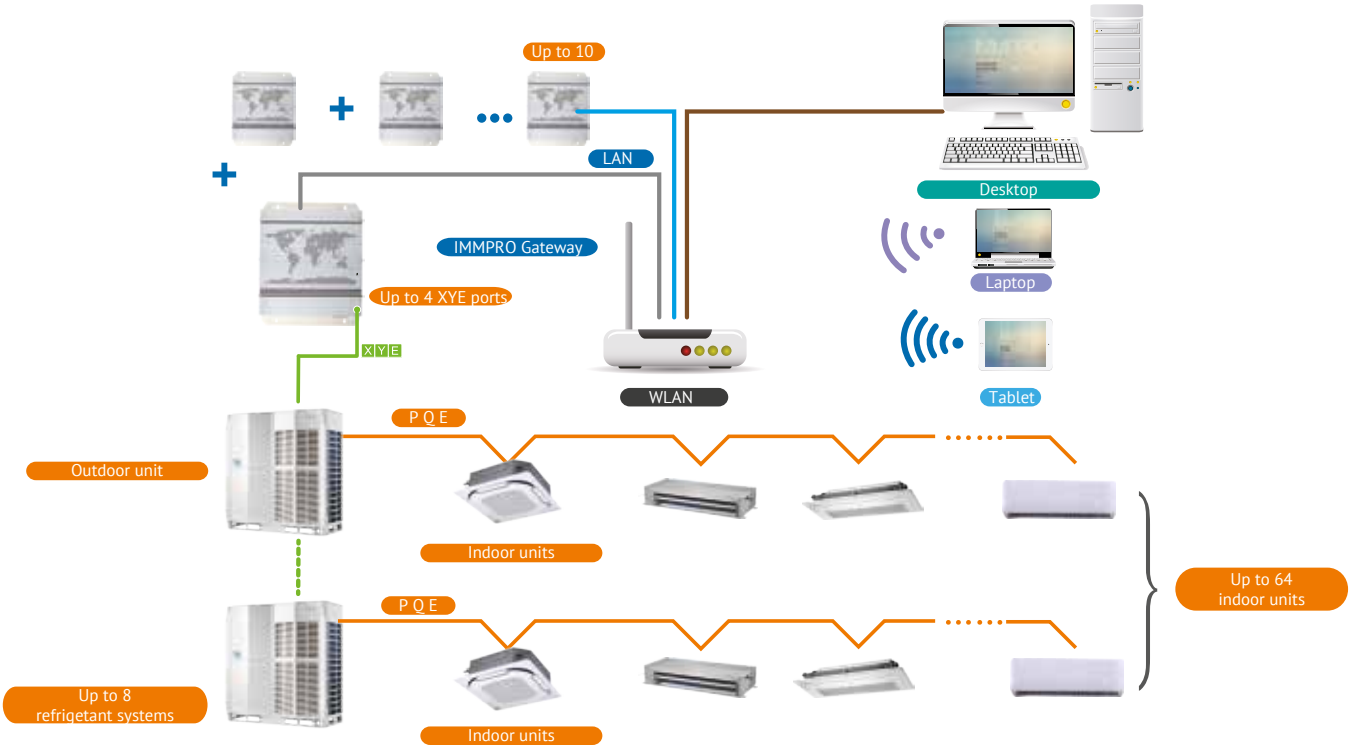
NETWORK FLEXIBILITY



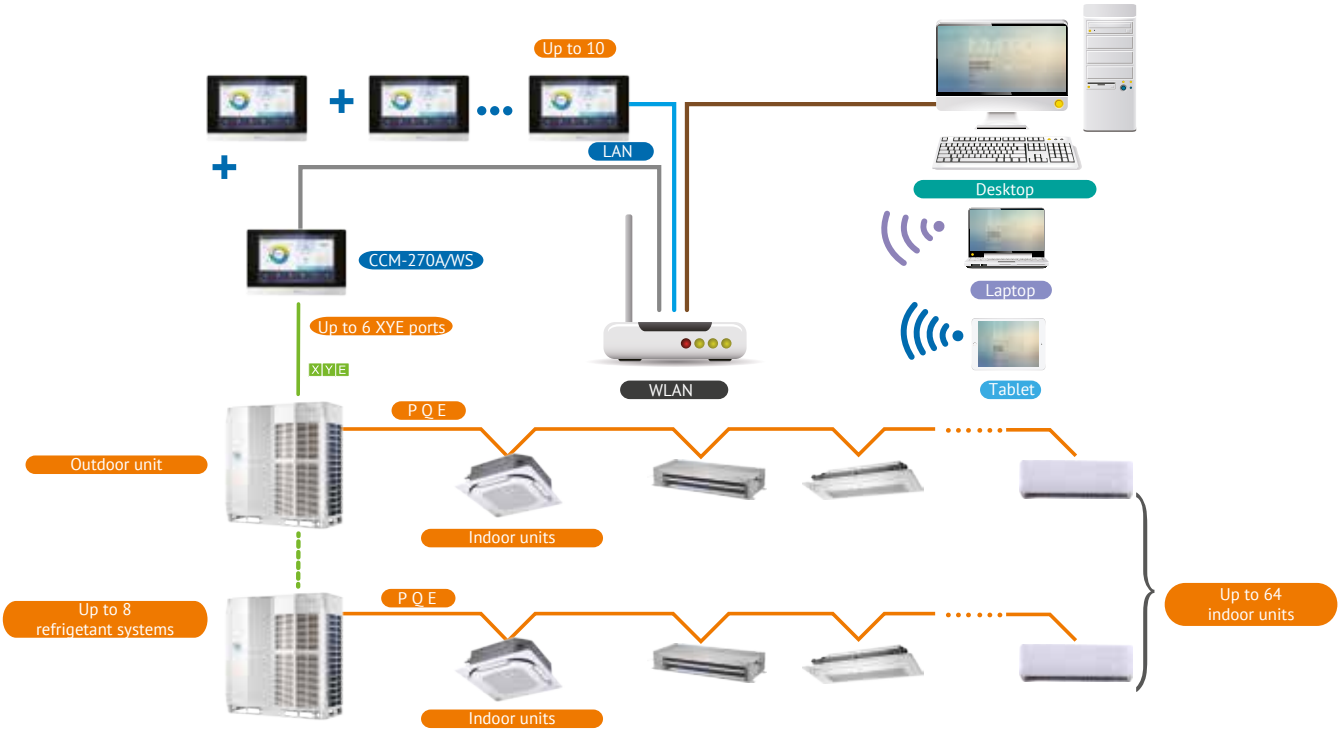
LAN access



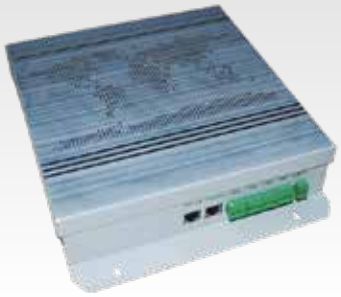
Remote VPN access



IMMP-M



CCM-270A/WS



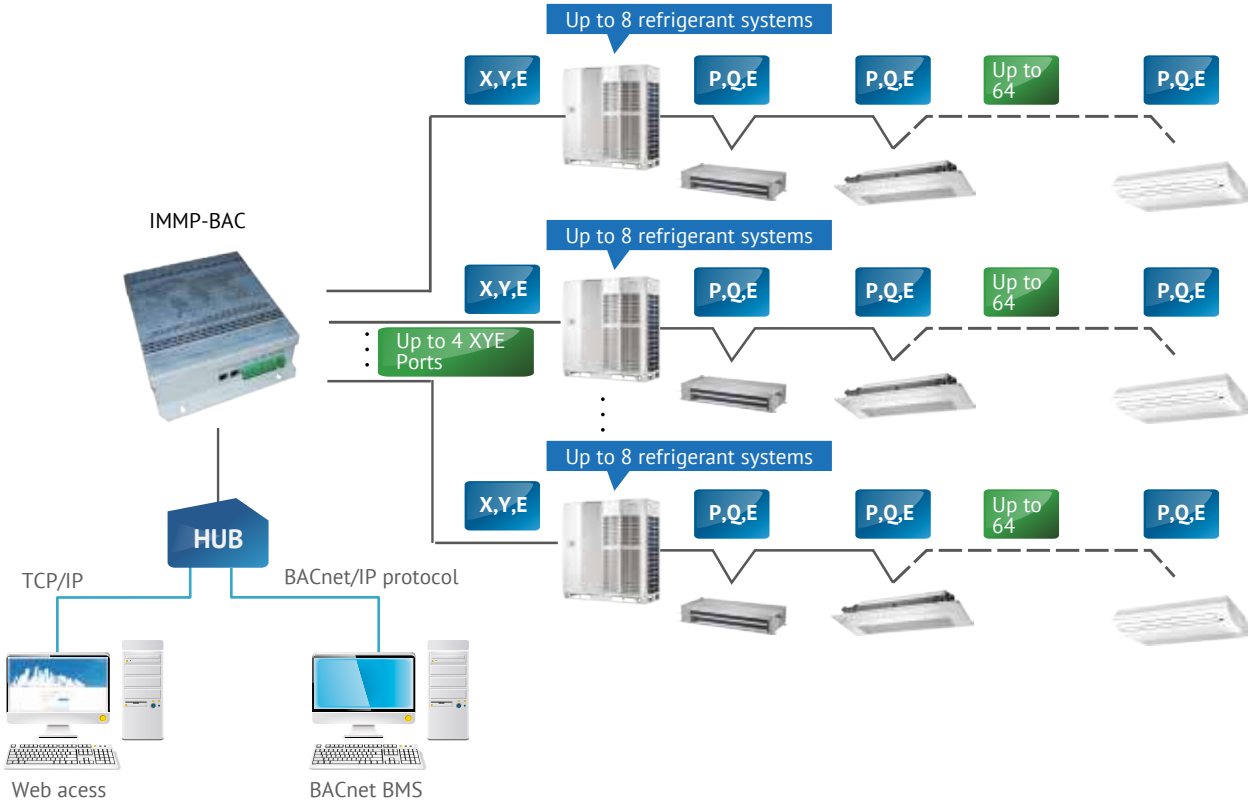
IMMP-BAC

FULL INTEGRATION

The IMMP-BAC Gateway allows Midea VRF systems to be monitored and controlled alongside other building management technology that use the BACnet protocol such as access control, fire detection and lighting systems.

CONNECTION EXAMPLE

The gateway can be connected to master outdoor units' XYE ports directly.



FUNCTIONS

Model		IMMP-BAC
Max. number of indoor units		256
Max. number of refrigerant systems		32
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Energy management	●
Indoor unit monitoring	Room temperature display	●
	Error status	●
	Error alarms	●
Outdoor unit monitoring	Operating mode	●
	Outdoor ambient temperature	●
	Fan speed	●
	Compressor operating frequency	●
	Discharge temperature	●
	System pressure	●
	Error status	●
	Error alarms	●
LAN access		●
BTL certification		●
Compatibility	Siemens	APOGEE
	Trane	TRACER
	Honeywell	ALERTON
	Schneider	Andover Continuum
	Johnson Controls	METASYS
Dimensions (HxWxD)(mm)		319×251×61
Power supply		1phase, 100-240V, 50/60Hz

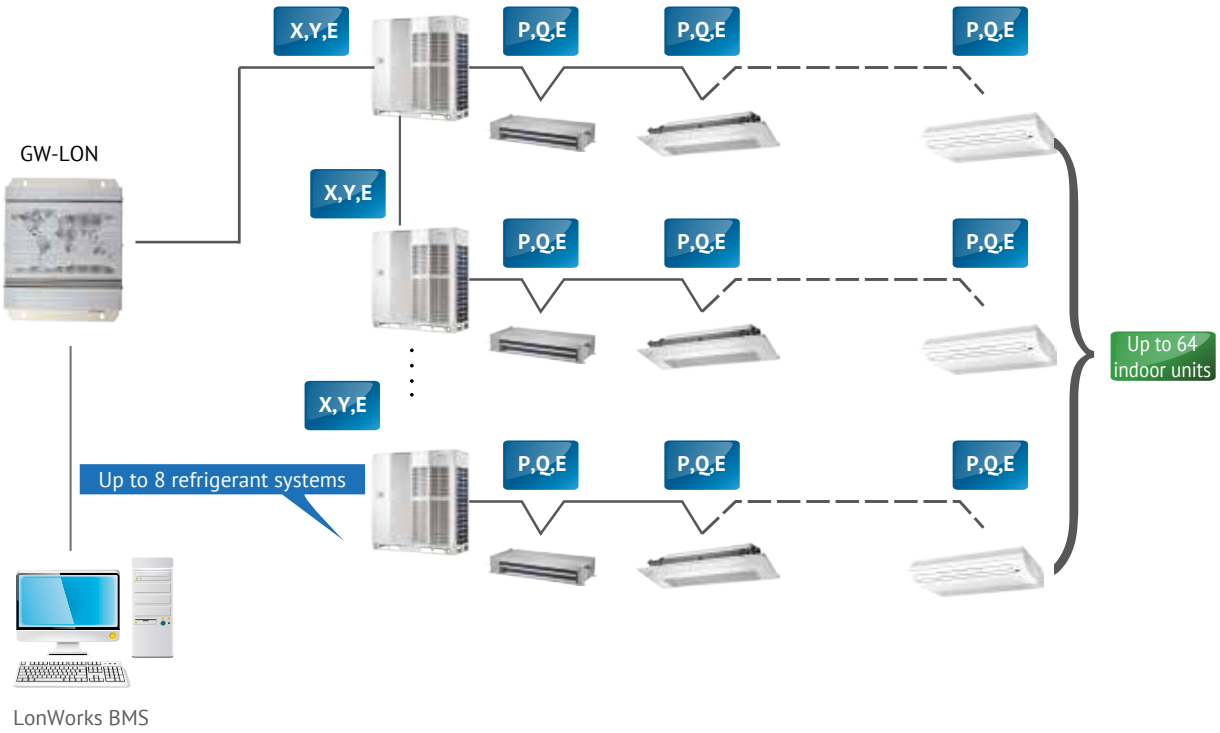


GW-LON

FULL INTEGRATION

The GW-LON Gateway allows Midea VRF systems to be monitored and controlled alongside other building management technology on the LonWorks platform such as security, fire safety and lighting systems.

CONNECTION EXAMPLE



FUNCTIONS

Model		GW-LON
Max. number of indoor units		64
Max. number of refrigerant systems		32
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Group shut down	●
Indoor unit monitoring	Operating mode	●
	Set temperature	●
	Fan speed	●
	Online status	●
	Operating status	●
	Room temperature	●
	Error status	●
Outdoor unit monitoring	Error status	●
Dimensions (HxWxD)(mm)		319×251×61
Power supply		1 phase, 100-240V, 50/60Hz

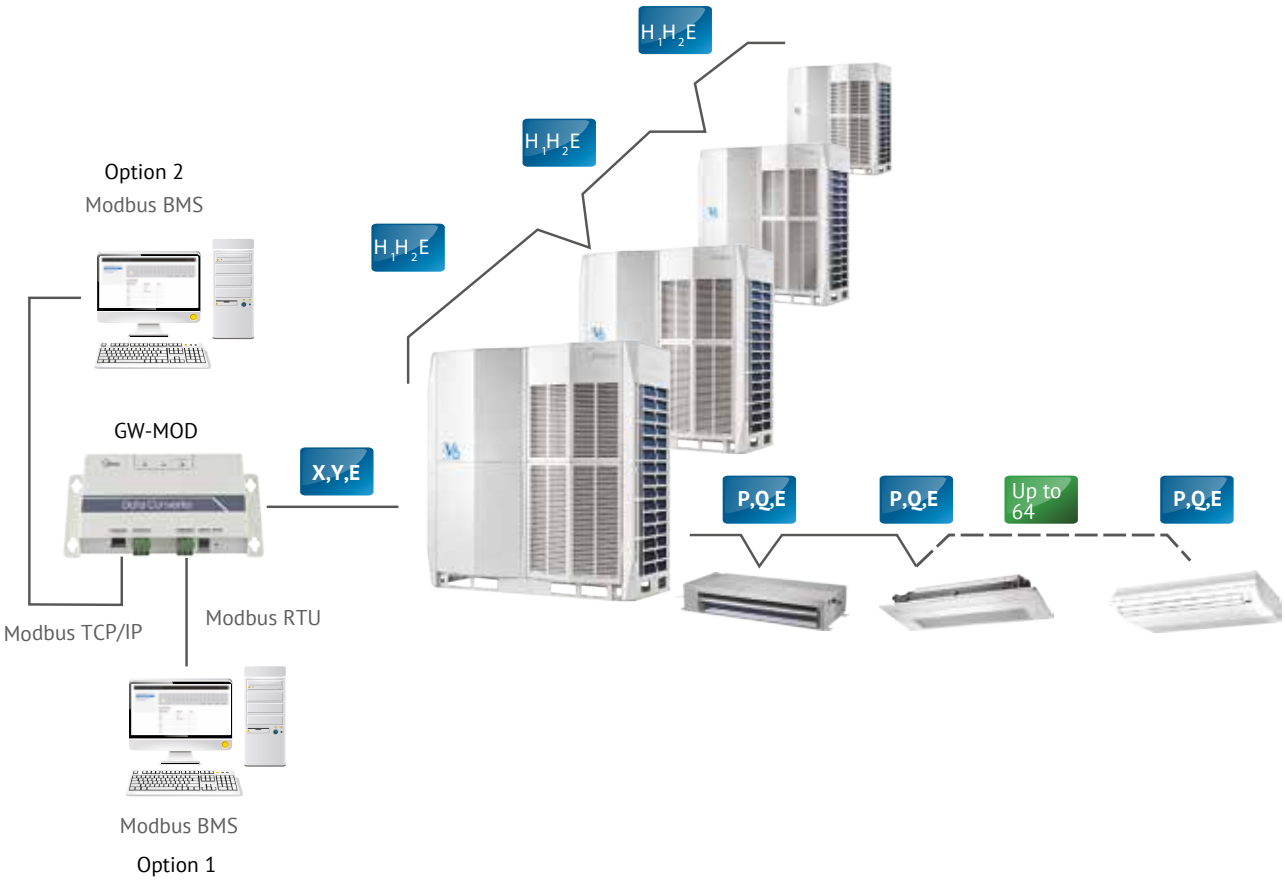


GW-MOD

FULL INTEGRATION

The GW-MOD Gateway enables seamless connection of Midea VRF systems with building management systems built on the Modbus communication protocol.

CONNECTION EXAMPLE



FUNCTIONS

Model		GW-MOD
Max. number of indoor units		64
Max. number of refrigerant systems		1
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Group on/off	●
Indoor unit monitoring	Online status	●
	Room temperature	●
	Room temperature	●
	Operating mode	●
Outdoor unit monitoring	Operating mode	●
	Lock status	●
	Fan speed	●
	Set temperature	●
	Outdoor ambient temperature	●
	Error status	●
LAN access		●
Dimensions (HxWxD)(mm)		319×251×61
Power supply		1 phase, 100-240V, 50/60Hz

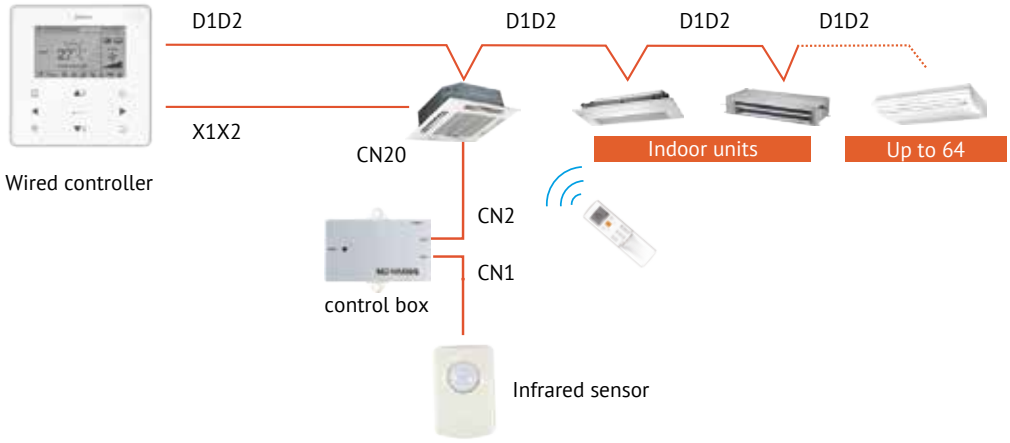


MD-NIM9

DIVERSITY OF APPLICATIONS

Using infrared sensors to detect movement, the MD-NIM09 Infrared Sensor Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied. Suitable for hotels, offices, conference rooms and residences, the Infrared Sensor Controller ensures climate control whilst minimizing energy consumption.

CONNECTION EXAMPLE





DIAGNOSIS SOFTWARE MCAC-DIAG-B

FUNCTIONS

Model		MCAC-DIAG-B
Max. number of indoor units		64
Max. number of systems in one refrigerant system		2
Max. number of refrigerant systems		1
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
Indoor unit monitoring	Operating mode	●
	Capacity	●
	Fan speed	●
	Address	●
	Temperatures	T3,T4,Tp (Note 1)
	EXV position	SV2, SV4, SV5, SV6, ST1 (Note 1)
Outdoor unit monitoring	Operating mode	●
	Compressor operating frequency	●
	Operating current	●
	Error status	●
	Temperatures	●
	Valve statuses	T1, T2, T2B, TS (Note 1)
	EXV position	●
Error codes		●
Troubleshooting		●
Data logs		●
Diagrams		System schematic, refregetrant flow diagram, parameter chart
Languges supported		English, French, Spanish

Note:
1. Heat exchanger temperature, outdoor ambient temperature, discharge temperature.
2. Discharge temperature control valve, oil return valve, defrosting valve, EXV bypass valve, four-way valve.
3. Indoor ambient temperature, indoor heat exchanger mid-point temperature, indoor heat exchanger outlet temperature, set temperature.

MONITOR AND DIAGNOSE

Midea's VRF Diagnosis Software tool is used to monitor VRF systems and diagnose system errors. System settings and operating parameters can be accessed easily and data logs can be reviewed for fault prevention purposes.

EXPERT DIAGNOSIS

Midea 's VRF Diagnosis Software is specially designed to allow after-sales engineers, to understand the operating status of the VRF system at a glance.



USE-FRIENDLY INTERFACE

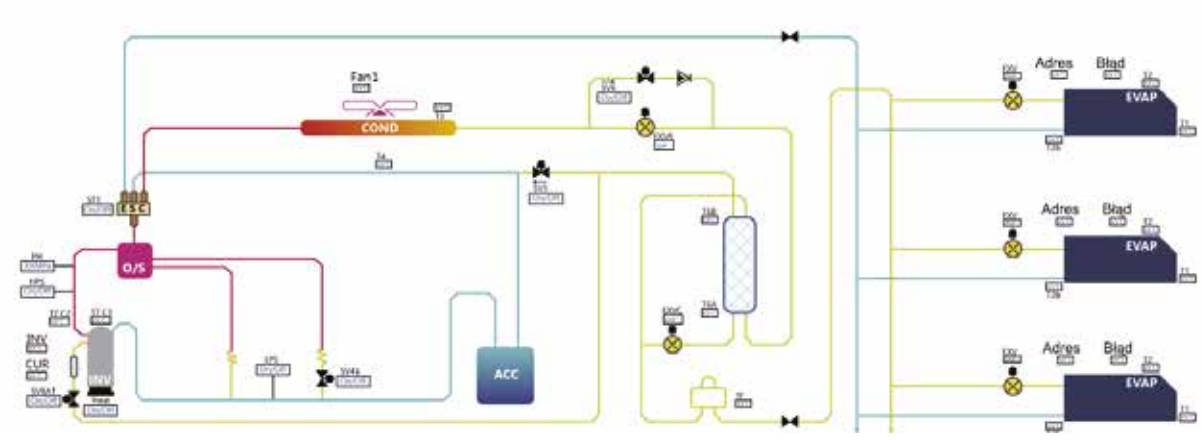
A stylish and simple interface with rich graphical representations makes diagnosing system issues quick and convenient.



DIAGRAMS

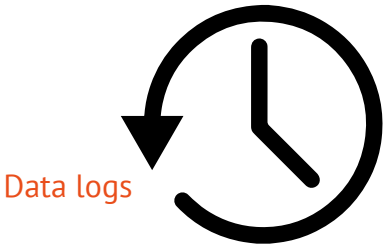
A system schematic, refregetrant flow diagram and parameter chart can be generated to provide a graphical interpretation of the system status.

Example diagram

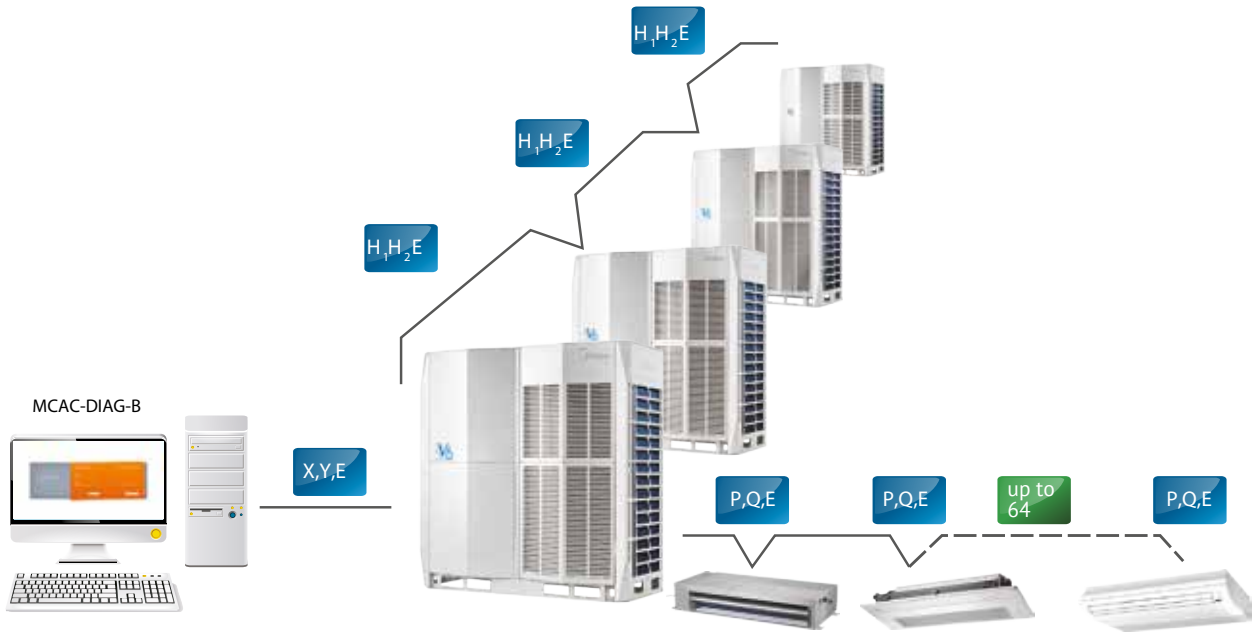


DATA LOGS

Data logs including operating records and error reports are saved by the software which is useful for discovering system issues.



WIRING SCHEMATIC





CCM02

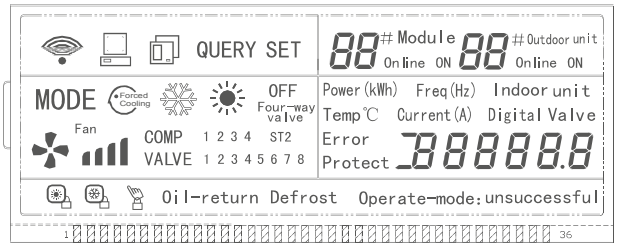
FUNCTIONALITY

- monitoring of max. 32 outdoor units
- monitoring of max. 8 refrigerating system

Displayed parameters:
- electric energy consumption [kWh]
- compressor operating frequency
- no. of connected indoor units
- temperature
- discharge temperature separately for each compressor
- current input separately for each compressor
- expansion valves opening degree
- present protections ans errors

OUTDOOR UNIT **PARAMETER DISPLAY**

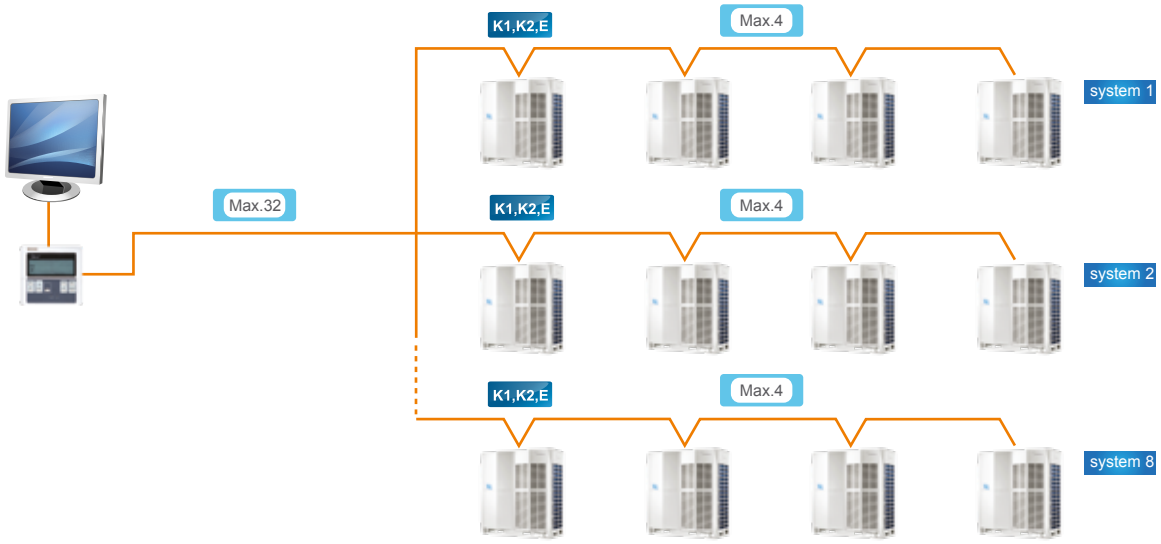
CCM02 controller enables users to easily check outdoor units' running status, including frequency, temperature, current, pressure, protection codes and error codes.



LCD screen

ACCESS TO NETWORK MONITORING

CCM02 controller can connect up to 8 refrigerant systems and 32 outdoor units to the network system.





DTS634

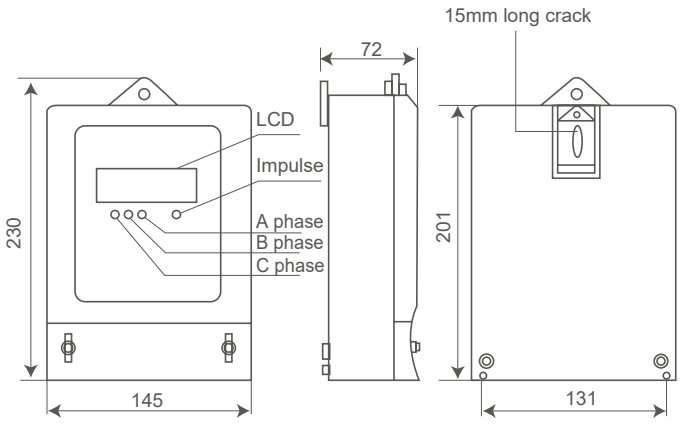
DIVERSITY OF APPLICATIONS

- Calculates power consumption.
- Does not need adjusting after long-term use.
- Corresponds one outdoor unit to one digital power meter.

EXAMPLE CONNECTION

The digital power meter consumes minimal energy.

- Current circuit: less than 2,5VA
- Voltage circuit: less than 2W/10VA





CCM08



CCM18



LONGW64



KNX1B/16/64

COMMUNICATION

4 BMS protocols available, that enable communication with the air-conditioning system: ModBus, BACnet, LonWorks, KNX. The BMS gateways are dedicated for V4PLUS R and V4 PLUS W systems.

FLEXIBILITY OF APPLICATION

BMS gates enable creating system networks, that include up to 1024 indoor and 128 outdoor units.



OPERATION MONITORING

Real-time control of the system operation parameters. Provides data analysis, reduction of energy consumption and costs as well as prompt detection of system abnormalities.



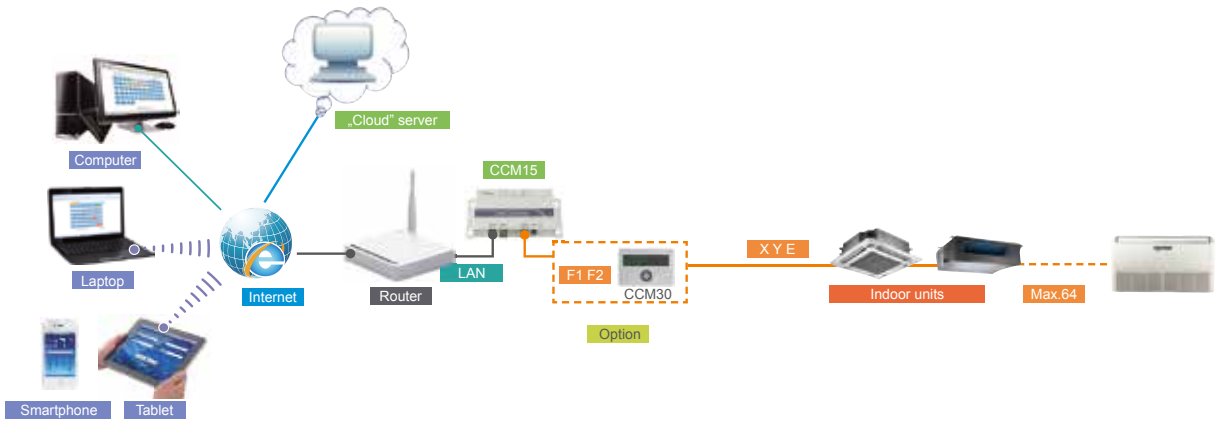
CCM15

DIVERSITY OF APPLICATIONS

- implements data conversion between TCP/IP and 485 protocols
- internet function provides access to the VRF system through the website
- user can monitor and send inquiries to air-conditioners through the LAN and WAN network
- TCP/IP port available for MIDEA VRF system, providing access to WEB/HTTP/TCP/IP protocols
- possibility to control air-conditioning systems via computer, smartphone, tablet or other smart terminal equipment.

CONNECTION EXAMPLE

- direct connection with the indoor unit through the XYE port
- max. connectable 64 indoor units
- CCM30 is optional and can be connected with CCM15 through F1, F2 and E ports
- the system includes air-conditioning, CCM15 data converter, "cloud" server and terminal control equipment



SIMPLE CONTROL **INTERFACE**

- software/"cloud" server control (internet access)
- user friendly "click and go" interface
- individual and group control available
- simplified control interface handled by user
- colour indicators and icons facilitate recognition of the unit's state
- possibility to display the full screen and adjust temperature by sliding the screen with finger



WIRED REMOTE **CONTROLLER LOCK**

- weekly timer function for tablets
- many blocks, each day for a single unit or group
- automatic control of the system on/off, operation mode, temperature setting as well as control according to the current time schedule







INTERNET FUNCTIONS

- monitoring and control of a single unit or group
- weekly timer settings: possible to set many blocks, each day for a single unit or group
- user group control: with use of a single ID, user can manage hundreds of CCM15 converters after selecting
- "As group user" button on the login page (group control)
- error history: error history function simplifies system's service and management

SMART CONTROL

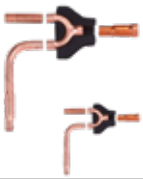
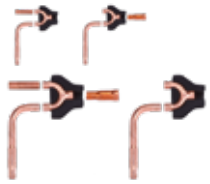
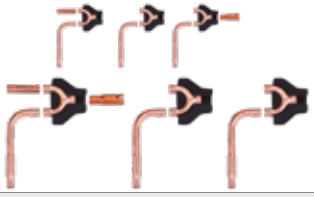
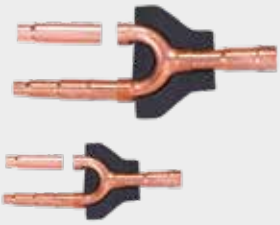
- remote air-conditioning control can be provided via smartphone or tablet
- possibility to monitor air-conditioner's operation state in any place and time as well as in advance
- the ability to remotely switch off the air-conditioner in order to save energy

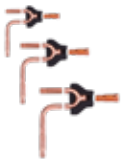
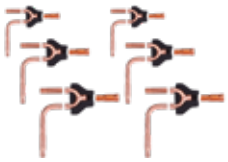
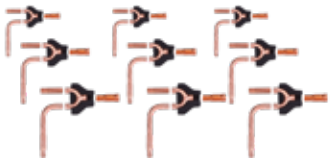
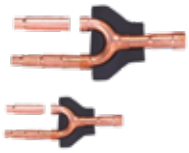




Midea

ACCESSORIES

Type	Image	Model	Dimensions (mm)	Weight (kg)	Description
Branch joints for outdoor units		FQZHW-02N1D	255x150x185	1,5	Connecting 2 outdoor units
		FQZHW-03N1D	345x160x285	3,4	Connecting 3 outdoor units
		FQZHW-04N1D	475x165x300	4,8	Connecting 4 outdoor units
Branch joints for indoor units		FQZHN-01D	290x105x100	0,4	Total capacity of connected units: below 16,6kW
		FQZHN-02D	290x105x100	0,6	Total capacity of connected units: 16,6 ~ 33,0 kW
		FQZHN-03D	310x130x125	0,9	Total capacity of connected units: 33,0 ~ 66,0 kW
		FQZHN-04D	350x180x170	1,5	Total capacity of connected units: 66,0 ~ 92,0 kW
		FQZHN-05D	365x195x215	1,9	Total capacity of connected units: 92,0 kW and more

Type	Zdjęcie	Model	Dimensions (mm)	Weight (kg)	Description
Branch joint between outdoor units		FQZHW-02SB	272x167x232	2,2	Connecting 2 outdoor units
		FQZHW-03SB	472x157x312	5,0	Connecting 3 outdoor units
		FQZHW-04SB	745x160x335	7,5	Connecting 4 outdoor units
Branch joint between MS Controller and outdoor units		FQZHN-01SB	257x127x107	0,8	Total capacity of connected units: below 16,6kW
		FQZHN-02SB	287x137x107	0,9	Total capacity of connected units: 16,6 ~ 33,0 kW
		FQZHN-03SB	297x167x177	1,4	Total capacity of connected units: 33,0 ~ 66,0 kW
		FQZHN-04SB	372x197x187	2,3	Total capacity of connected units: 66,0 ~ 92,0 kW
		FQZHN-05SB	432x222x227	3,3	Total capacity of connected units: 92,0 kW and more
Branch joint between MS Controller and indoor units		FQZHN-01D	290x105x100	0,4	Total capacity of connected units: below 16,6kW

ZYMETRIC

CERTIFICATES

A list of units covered by the certification programme is available on sites:
www.eurovent-certification.com
or www.certiflash.com

CE

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CATALOGUE
K/002/2020