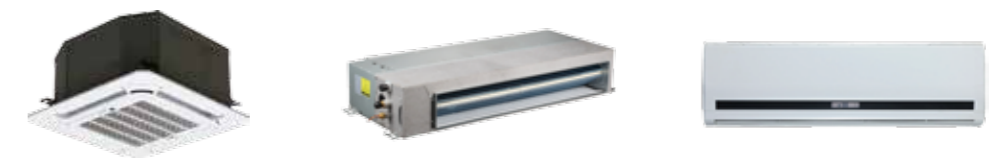




Commercial Air Conditioners 2016



R410A VRF Indoor Unit 50Hz DC Series

CVC
EMS
GD Midea Heating & Ventilating Equipment Co., Ltd.
Is certified under the ISO 14001 International standard
for environmental management.
Certificate No.15912E10020R0L

TÜV Rheinland CERT
ISO 9001
GD Midea Heating & Ventilating Equipment Co., Ltd.
Is certified under the ISO 9001 International standard
for quality assurance.
NO.01 100 019209

CVC
OHSMS
GD Midea Heating & Ventilating Equipment Co., Ltd.
Certificate of Occupational Health and Safety Management System
Certificate No. 15912S20006R0L-1.

Commercial Air Conditioner Division Midea Group

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cac.midea.com global.midea.com

Note: The data in this book may be changed without notice for further improvement
on quality and performance.

Midea CAC After-service Application



iOS Version

Android Version

Midea CAC News Application



iOS Version

Midea CAC

Midea CAC is a key division of the Midea Group, a leading producer of consumer appliances and provider of heating, ventilation and air conditioning solutions. Midea CAC has continued with the tradition of innovation upon which it was founded, and emerged as a global leader in the HVAC industry. A strong drive for advancement has created a groundbreaking R&D department that has placed Midea CAC at the forefront of a competitive field. Through these independent efforts and joint cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.

There are three production bases: Shunde, Chongqing and Hefei.

MCAC Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters, and AHU/FCU.

MCAC Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers, and AHU/FCU.

MCAC Hefei: 11 product lines focusing on VRF, Chillers, and Heat Pump Water Heaters.



2014-2015 >> Win FIFA World Cup Stadiums project in Brazil Beira Rio, Olympic Games Stadiums project in Brazil Rio de Janeiro and Africa games Stadiums project in Congo Brazzaville successively

2014 >> Launched the All DC Inverter V5X globally, outstanding product performance helps Midea leading VRF market

2011-2014 >> Launched the DC Inverter V4 Plus Series successively, complete product lines help Midea successfully enter the mainstream VRF market

2011-2012 >> J.V. with Carrier LA and Carrier India successively

2009 >> Launched the DC Inverter V4 globally

2008 >> Developed DC inverter technology with Toshiba

2000-2001 >> Cooperated with Toshiba and Copeland, enter VRF field

1999 >> Entered the CAC field



Midea Company Introduction



Midea CAC Introduction





Indoor Units Lineup

- Compact four-way cassette
- Four-way cassette
- Low static pressure duct
- Concealed duct unit (A5 type)
- High static pressure duct

- Fresh air processing unit
- Wall-mounted
- Ceiling & Floor
- Floor standing

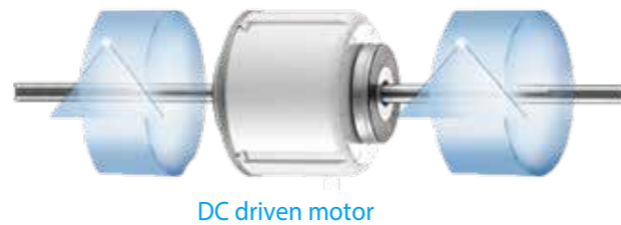
Product Lineup

| Type | kW | 1.5 | 1.8 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 | 9.0 | 10.0 | 11.2 | 12.5 | 14.0 | 16.0 | 20.0 | 25.0 | 28.0 | |
|---------------------------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Compact Four-way Cassette | | Available | | Available | Available | Available | Available | | | | | | | | | | | | | |
| Four-way Cassette | | | | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| Low Static Pressure Duct | | | Available | Available | Available | Available | Available | Available | Available | | | | | | | | | | | |
| Medium Static Pressure Duct (A5 type) | | Available | | Available | Available | Available | Available | Available | Available | | | | | | | | | | | |
| | | | | | | | | | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| High static pressure | | | | | | | | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| Fresh air processing unit | | | | | | | | | | | | | | Available | Available | Available | Available | Available | Available | Available |
| Ceiling & Floor | | | | | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| Wall-mounted | | Available | | Available | Available | Available | Available | Available | Available | | | | | | | | | | | |
| | | | | | | | | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| | | | | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available | Available |
| Floor Standing | | | | Available | Available | Available | Available | Available | Available | | | | | | | | | | | |

Notes:
 1.5kW model is only available for Mini VRF and V4+I (side discharge) Series.
 Fresh air processing unit is not available for V4+R and Mini VRF Series.

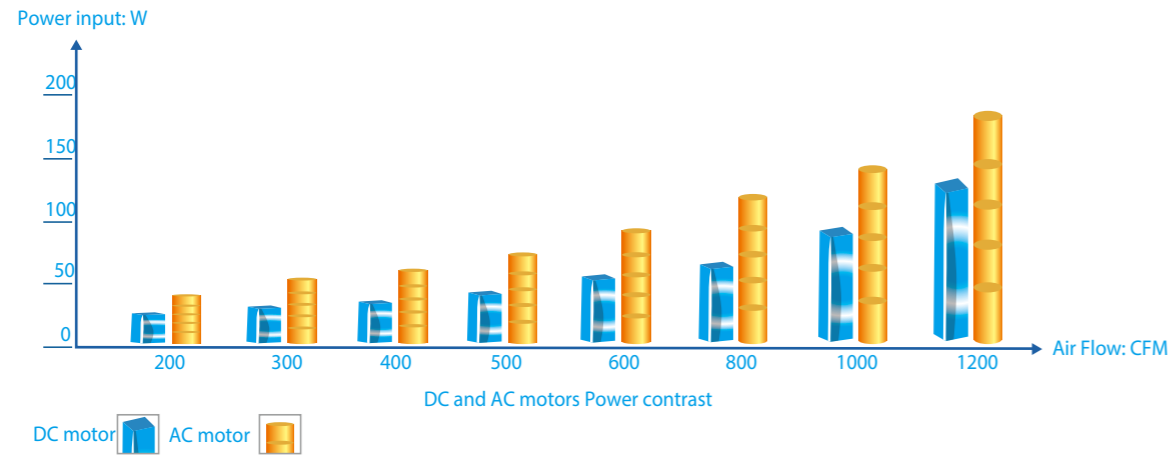
Advantage of VRF Indoor Units with DC Brushless Fan Motor

The VRF indoor units are the new energy saving products improved with advanced DC driven technology. The VRF indoor units have advanced technology of high energy efficiency, low noise operation and precision temperature control, so are ideal for hospitals, office building, hotels, airports and various other applications.



Energy Efficiency, Comply with CE Regulation >>

The power consumption of DC driven VRF indoor units can be reduced up to 30% in comparison to corresponding AC type.



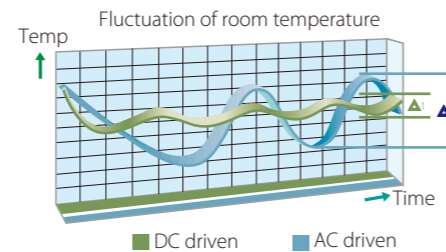
Quiet Operation >>

Unit noise is 2~5dB(A) lower compared to an AC motor VRF indoor unit, creating a quiet living environment.



Constant Level of Air Temperature and Humidity >>

The DC Inverter fan motor adjusts of air flow based on thermal load instantly providing less temperature fluctuation and an improved living environment.

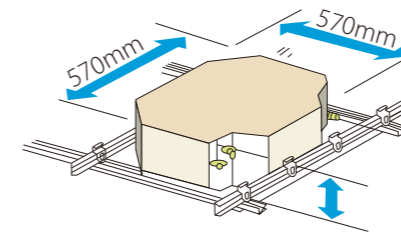


Compact Four-way Cassette



- Auto Restart Function
- Auto Addressing
- Fresh Air
- Auto Defrosting
- Easy-cleaning Panel
- Follow Me
- Anti-cold Air Function
- Built-in Drain Pump
- LED Display
- Built-in Filter
- Independent Dehumidification
- Timer
- Auto Swing
- Wired Controller

Compact design, easy installation >>



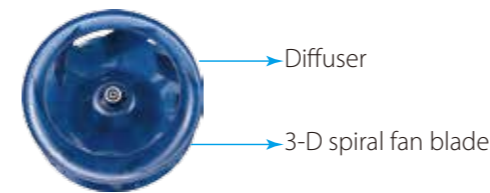
Extremely compact casing suits any room's decor and requires little space for installation on a low ceiling. Due to compact body and light weight, all models can be installed without a hoist.

Fresh air intake >>



Fresh air can enter through the cassette unit so you can enjoy even fresher air in a room.

Quiet operation, gentle air supply >>



Streamlined plate ensures quiet operation. Advanced 3-D spiral fan design reduces air resistance and operation noise.

Sub duct >>



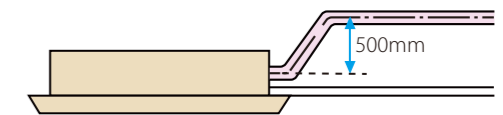
Sub duct enables you to use the same air conditioner unit to cool an additional smaller space nearby.

360° Airflow outlet >>



360 ° air outlet provides strong air flow circulation to cool or heat every corner of a room and evenly control temperatures.

High-lift drain pump >>



Drain pump with a 500mm pump head is fitted as standard; maximum 600mm pump head is available.

High Efficiency and Low Sound Operation >>

Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Compact Four-way Cassette

| Model | | | MI-15Q4/DHN1-A3 | MI-22Q4/DHN1-A3 | MI-28Q4/DHN1-A3 | MI-36Q4/DHN1-A3 | MI-45Q4/DHN1-A3 |
|-----------------------------|---------------------|----|--|-----------------|-----------------|-----------------|-----------------|
| Power supply | | | 1-phase,220-240V,50/60Hz | | | | |
| Capacity | Cooling | kW | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 |
| | Heating | kW | 1.7 | 2.4 | 3.2 | 4.0 | 5.0 |
| Power input | Cooling | W | 14 | 15 | 16 | 21 | 21 |
| | Heating | W | 11 | 13 | 13 | 18 | 18 |
| Airflow rate(H/M/L) | m ³ /h | | 526/449/364 | 526/449/364 | 576/503/405 | 604/516/400 | 604/516/400 |
| Sound pressure level(H/M/L) | dB(A) | | 33.9/32.5/21.8 | 34.8/32.4/22.4 | 34.8/32.4/22.4 | 40.5/34.6/27.8 | 40.5/34.6/27.8 |
| Sound power level(H/M/L) | dB(A) | | 45/44/34 | 46/44/35 | 46/44/35 | 52/47/41 | 52/47/41 |
| Main body | Net dim.(W×H×D) | mm | 570×260×570 | 570×260×570 | 570×260×570 | 570×260×570 | 570×260×570 |
| | Packing dim.(W×H×D) | mm | 675×285×675 | 675×285×675 | 675×285×675 | 675×285×675 | 675×285×675 |
| | Net/gross weight | kg | 16/22 | 16/22 | 16/22 | 17.5/23.5 | 17.5/23.5 |
| Panel | Net dim.(W×H×D) | mm | 647×50×647 | 647×50×647 | 647×50×647 | 647×50×647 | 647×50×647 |
| | Packing dim.(W×H×D) | mm | 715×123×715 | 715×123×715 | 715×123×715 | 715×123×715 | 715×123×715 |
| | Net/gross weight | kg | 2.5/4.5 | 2.5/4.5 | 2.5/4.5 | 2.5/4.5 | 2.5/4.5 |
| Piping connections | Liquid/gas pipe | mm | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | | | Wireless remote controller RM05/BG(T)E-A | | | | |

Notes:

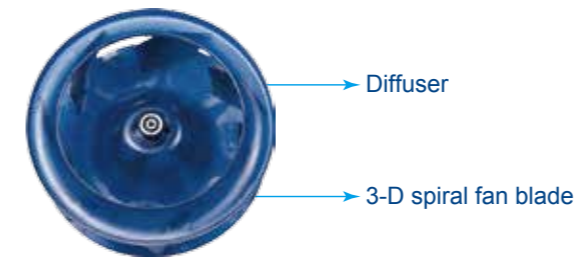
- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Sound Level is measured 1.4m(4.59ft.) below the unit.

Four-way Cassette



Quiet operation, gentle air supply »

- Streamlined plate ensures quiet operation.
- Advanced 3-D spiral fan design reduces air resistance and operation noise.

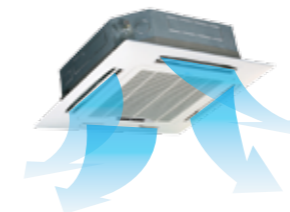


Easy troubleshooting »

By adding digital tube on the display board, Error Codes can be displayed directly for troubleshooting.



Four-way uniform airflow »



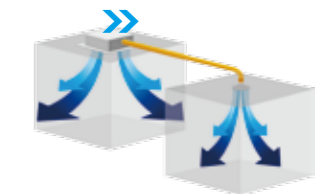
Four air discharge ports provide strong air flow circulation to cool or heat every corner of a room and evenly control temperature. High airflow mode can maximize the conditioning effect in rooms that are over 3m high.

Fresh air intake »



Fresh air can enter through the cassette unit so you can enjoy even fresher air in a room.

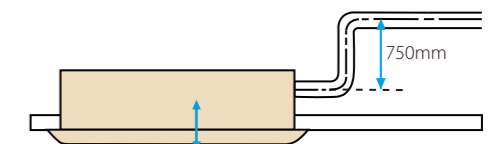
Sub duct



Sub duct enables you to use the same air conditioner unit to cool an additional smaller space nearby.

High-lift drain pump »

Drain pump can pump condenser water up to 750mm high, which simplifies installation of the drain piping system.



High Efficiency and Low Sound Operation »

Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Four-way Cassette

| Model | MI-28Q4/DHN1-D | MI-36Q4/DHN1-D | MI-45Q4/DHN1-D | MI-56Q4/DHN1-D | MI-71Q4/DHN1-D | | |
|-----------------------------|--|----------------|----------------|----------------|----------------|--------------|--------------|
| Power supply | 1-phase,220-240V,50/60Hz | | | | | | |
| Capacity | Cooling | kW | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | kW | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Power input | Cooling | W | 25 | 25 | 31 | 31 | 46 |
| | Heating | W | 25 | 25 | 31 | 31 | 46 |
| Airflow rate(H/M/L) | m ³ /h | 982/832/677 | 982/832/677 | 1029/857/704 | 1029/857/704 | 1200/996/748 | |
| Sound pressure level(H/M/L) | dB(A) | 42/37/32 | 42/37/32 | 43/38/34 | 43/38/34 | 45/39/34 | |
| Sound power level(H/M/L) | dB(A) | 53/49/45 | 53/49/45 | 54/50/47 | 54/50/47 | 56/51/47 | |
| Main body | Net dim.(WxHxD) | mm | 904x230x840 | 904x230x840 | 904x230x840 | 904x230x840 | 904x230x840 |
| | Packing dim.(WxHxD) | mm | 955x260x955 | 955x260x955 | 955x260x955 | 955x260x955 | 955x260x955 |
| | Net/gross weight | kg | 21.8/27.6 | 21.8/27.6 | 24/29.5 | 24/29.5 | 24/29.5 |
| Panel | Net dim.(WxHxD) | mm | 950x54.5x950 | 950x54.5x950 | 950x54.5x950 | 950x54.5x950 | 950x54.5x950 |
| | Packing dim.(WxHxD) | mm | 1035x90x1035 | 1035x90x1035 | 1035x90x1035 | 1035x90x1035 | 1035x90x1035 |
| | Net/gross weight | kg | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| Piping connections | Liquid/gas pipe | mm | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ32 | OD Φ32 | OD Φ32 | OD Φ32 | OD Φ32 |
| Standard controller | Wireless remote controller RM05/BG(T)E-A | | | | | | |

| Model | MI-80Q4/DHN1-D | MI-90Q4/DHN1-D | MI-100Q4/DHN1-D | MI-112Q4/DHN1-D | MI-140Q4/DHN1-D | | |
|-----------------------------|--|----------------|-----------------|-----------------|-----------------|----------------|--------------|
| Power supply | 1-phase,220-240V,50/60Hz | | | | | | |
| Capacity | Cooling | kW | 8.0 | 9.0 | 10.0 | 11.2 | 14.0 |
| | Heating | kW | 9.0 | 10.0 | 11.1 | 12.5 | 15.0 |
| Power input | Cooling | W | 48 | 75 | 75 | 75 | 94 |
| | Heating | W | 48 | 75 | 75 | 75 | 94 |
| Airflow rate(H/M/L) | m ³ /h | 1264/1055/811 | 1596/1239/1034 | 1596/1239/1034 | 1596/1239/1034 | 1727/1426/1224 | |
| Sound pressure level(H/M/L) | dB(A) | 46/40/35 | 47/41/36 | 47/41/36 | 47/41/36 | 50/45/35 | |
| Sound power level(H/M/L) | dB(A) | 57/52/48 | 58/53/49 | 58/53/49 | 58/53/49 | 61/57/48 | |
| Main body | Net dim.(WxHxD) | mm | 904x230x840 | 904x300x840 | 904x300x840 | 904x300x840 | |
| | Packing dim.(WxHxD) | mm | 955x260x955 | 955x330x955 | 955x330x955 | 955x330x955 | |
| | Net/gross weight | kg | 24/29.5 | 27.4/33.2 | 27.4/33.2 | 27.4/33.2 | 30/35.8 |
| Panel | Net dim.(WxHxD) | mm | 950x54.5x950 | 950x54.5x950 | 950x54.5x950 | 950x54.5x950 | 950x54.5x950 |
| | Packing dim.(WxHxD) | mm | 1035x90x1035 | 1035x90x1035 | 1035x90x1035 | 1035x90x1035 | 1035x90x1035 |
| | Net/gross weight | kg | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| Piping connections | Liquid/gas pipe | mm | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ32 | OD Φ32 | OD Φ32 | OD Φ32 | OD Φ32 |
| Standard controller | Wireless remote controller RM05/BG(T)E-A | | | | | | |

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C(44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Sound Level is measured 1.4m(4.59ft.) below the unit.

Low Static Pressure Duct

Low Sound Level >>

Utilizes the centrifugal type blower, provides a minimum noise level of 24dB (A), an excellent choice for hotels and other sound-sensitive locations.



V Shape Evaporator >>

V shape evaporator design enhances heat exchanging efficiency by around 22%.

Easy Installation and Maintenance >>

The EXV is fixed inside the indoor unit.



Specifications

| Model | MI-18T3/DHN1-C | MI-22T3/DHN1-C | MI-28T3/DHN1-C | MI-36T3/DHN1-C | MI-45T3/DHN1-C | MI-56T3/DHN1-C | MI-71T3/DHN1-C | | |
|---------------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|--------------|-------------|
| Power supply | 1-phase,220-240V,50/60Hz | | | | | | | | |
| Capacity | Cooling | kW | 1.8 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | kW | 2.2 | 2.6 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Power input | Cooling | W | 23 | 23 | 23 | 30 | 46 | 53 | 53 |
| | Heating | W | 23 | 23 | 23 | 30 | 46 | 53 | 53 |
| Airflow rate(H/M/L) | m ³ /h | 590/520/415 | 590/520/415 | 590/520/415 | 655/560/465 | 856/740/600 | 905/740/580 | 970/800/660 | |
| External static pressure(Min/Std/Max) | Pa | 0/10/30 | 0/10/30 | 0/10/30 | 0/10/30 | 0/10/30 | 0/10/30 | 0/10/30 | |
| Sound pressure level(H/M/L) | dB(A) | 34/26/24 | 34/26/24 | 34/26/24 | 37/31/28 | 38/31/28 | 38/31/28 | 40/32/29 | |
| Sound power level(H/M/L) | dB(A) | 45/38/37 | 45/38/37 | 45/38/37 | 48/43/41 | 49/43/41 | 49/43/41 | 51/44/42 | |
| Net dimension(WxHxD) | mm | 740x210x470 | 740x210x470 | 740x210x470 | 740x210x470 | 960x210x470 | 960x210x470 | 1180x210x470 | |
| Packing dimension(WxHxD) | mm | 910x230x510 | 910x230x510 | 910x230x510 | 910x230x510 | 1130x230x510 | 1130x230x510 | 1350x230x510 | |
| Net/gross weight | kg | 13.5/17 | 13.5/17 | 13.5/17 | 13.5/17 | 17.5/22 | 17.5/22 | 21/26.5 | |
| Piping connections | Liquid/gas pipe | 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 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | Wireless remote controller RM05/BG(T)E-A | | | | | | | | |

Notes:

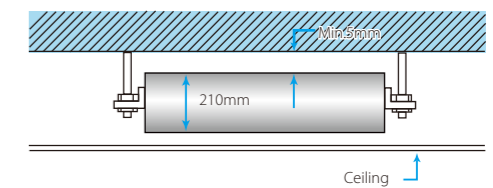
- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 8m(horizontal).
 - Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 8m(horizontal).
 - Sound level is measured at 1.4m below the air outlet.
- External static pressure is based on high speed indoor air flow.



Compact Design >>

Uniformed height of 210mm, compact design for easy locate where ceiling space is limited.

Entire body adopts fireproof plastic material, the minimum weight is 14kg.



Options >>

Drain pump with a 750mm pumphead is an optional accessory.

High Efficiency and Low Sound Operation >>

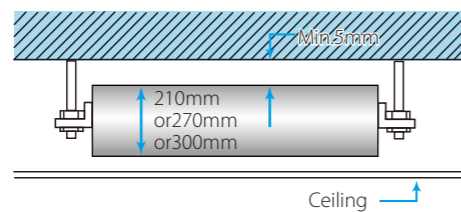
Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Medium Static Pressure Duct (A5 type)



Compact Size >>

Only 210mm (models 15~71) or 270mm (models 80~112) or 300mm (model 140) in height.



Convenient Installation >>

EXV is fixed inside the indoor unit.

Standard filter is housed in an aluminum frame.

A rear air inlet is standard and an inlet at the bottom is optional. Both use the same connectable duct.



Flexible Control and Easy Maintenance >>

The electrical control box can be removed 1m away from the unit for easy maintenance access. Customers need to request this service in advance for it is done at Midea CAC factory.

Standard functional ports are included such as Remote On/Off Dry contact switch and Alarm signal output (220V).

High Efficiency and Low Sound Operation >>

Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

High-lift Drain Pump >>

Drain pump with a 750mm pump head is fitted as standard.

Specifications

| Model | MI-15T2/DHN1-DA5 | MI-22T2/DHN1-DA5 | MI-28T2/DHN1-DA5 | MI-36T2/DHN1-DA5 | MI-45T2/DHN1-DA5 | MI-56T2/DHN1-DA5 | | |
|---------------------------------------|---|------------------|------------------|------------------|------------------|------------------|--------------|-------------|
| Power supply | 1-phase,220-240V,50/60Hz | | | | | | | |
| Capacity | Cooling | kW | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| | Heating | kW | 1.7 | 2.6 | 3.2 | 4.0 | 5.0 | 6.3 |
| Power input | Cooling | W | 39 | 39 | 39 | 45 | 58 | 89 |
| | Heating | W | 39 | 39 | 39 | 45 | 58 | 89 |
| Airflow rate(H/M/L) | m³/h | 509/420/370 | 521/450/380 | 521/450/380 | 592/541/426 | 748/640/550 | 821/640/566 | |
| External static pressure(Min/Std/Max) | Pa | 0/10/30 | 0/10/30 | 0/10/30 | 0/10/30 | 0/10/30 | 0/10/30 | |
| Sound pressure level(H/M/L) | dB(A) | 35/33/31 | 35/34/31 | 36/34/31 | 37/36/33 | 38/37/33 | 38/37/33 | |
| Sound power level(H/M/L) | dB(A) | 46/45/44 | 46/45/44 | 47/46/44 | 48/47/46 | 49/48/46 | 49/48/46 | |
| Net dimension(WxHxD) | mm | 740x210x500 | 740x210x500 | 740x210x500 | 740x210x500 | 960x210x500 | 960x210x500 | |
| Packing dimension(WxHxD) | mm | 870x285x525 | 870x285x525 | 870x285x525 | 870x285x525 | 1115x285x525 | 1115x285x525 | |
| Net/gross weight | kg | 17.5/20.5 | 17.5/20 | 17.5/20 | 17.5/20 | 22.5/26 | 22.5/26 | |
| Piping connections | Liquid/gas pipe | 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 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | Wired controller KJR-29B1/BK-E (6 meters connection wire) | | | | | | | |

| Model | MI-71T2/DHN1-DA5 | MI-80T2/DHN1-BA5 | MI-90T2/DHN1-BA5 | MI-112T2/DHN1-BA5 | MI-140T2/DHN1-BA5 | | |
|---------------------------------------|---|------------------|------------------|-------------------|-------------------|----------------|-------------|
| Power supply | 1-phase,220-240V,50/60Hz | | | | | | |
| Capacity | Cooling | kW | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 |
| | Heating | kW | 8.0 | 9.0 | 10.0 | 12.5 | 15.5 |
| Power input | Cooling | W | 68 | 98 | 108 | 178 | 204 |
| | Heating | W | 68 | 98 | 108 | 178 | 204 |
| Airflow rate(H/M/L) | m³/h | 1021/940/778 | 1290/1090/940 | 1290/1090/940 | 1780/1550/1352 | 1950/1600/1400 | |
| External static pressure(Min/Std/Max) | Pa | 0/10/30 | 10/20/50 | 10/20/50 | 10/40/80 | 10/40/100 | |
| Sound pressure level(H/M/L) | dB(A) | 40/38/34 | 44/38/37 | 44/38/37 | 47/41/37 | 47/42/38 | |
| Sound power level(H/M/L) | dB(A) | 51/50/47 | 55/50/48 | 55/50/48 | 58/53/50 | 58/54/50 | |
| Net dimension(WxHxD) | m³/h | 1180x210x500 | 1230x270x775 | 1230x270x775 | 1230x270x775 | 1290x300x865 | |
| Packing dimension(WxHxD) | mm | 1335x285x525 | 1355x350x795 | 1355x350x795 | 1355x350x795 | 1400x375x925 | |
| Net/gross weight | kg | 28/31.5 | 38/46.5 | 40/48 | 40/48 | 49/58 | |
| Piping connections | Liquid/gas pipe | mm | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | Wired controller KJR-29B1/BK-E (6 meters connection wire) | | | | | | |

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 8m(horizontal).
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 8m(horizontal).
- Sound level is measured at 1.4m below the air outlet.

External static pressure is based on high speed indoor air flow.

High Static Pressure Duct

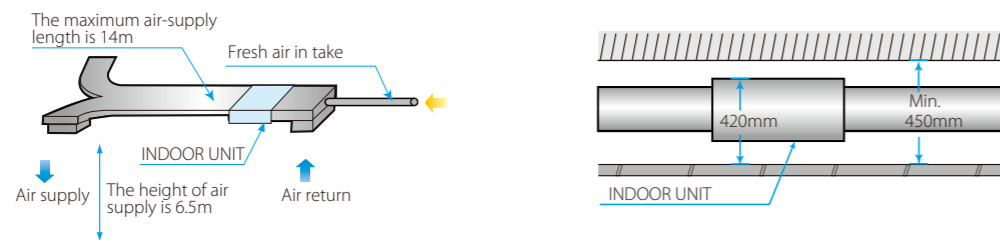


Flexible Duct Design >>

External static pressure can be up to 196Pa (models 71 to 160) or 280Pa (models 200 to 560).

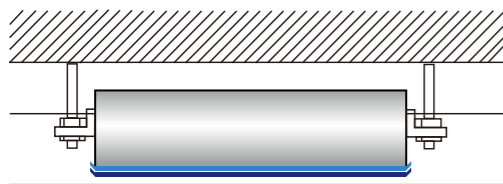
The maximum length for air supply is about 14m at a height of 6.5m.

With a 420mm (models 71 to 160) thick body, the minimum distance required above the ceiling is 450mm.



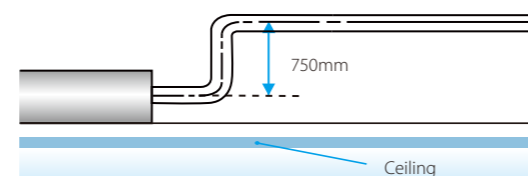
Double-skin Drainage Pan >>

Double-skin drainage pan provides double protection for ceilings (models 71 to 160 and models 400 to 560).



Option >>

Drain pump with 750mm pump head is optional (models 71 to 160).



Convenient Installation >>

The EXV is fixed inside the indoor unit (models 70-160), requires no extra connection.

Standard filter is housed in an aluminum frame, which is removable from the bottom in a downward direction.

Flange for air inlet/outlet duct connection is standard.

Flexible Control and Convenient for Maintenance >>

Wired remote controller KJR-29B1/BK-E comes standard, and wireless remote controller RM05/BG(T)E-A comes as an option.

The display board is connected to the E-box in factory, easier troubleshooting with LED display.

Easy access filters both at the rear & bottom.

Standard functional port such as remote on/off dry contact.

High Efficiency and Low Sound Operation >>

Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Specifications

| Model | | | MI-71T1/DHN1-B | MI-80T1/DHN1-B | MI-90T1/DHN1-B | MI-112T1/DHN1-B | MI-140T1/DHN1-B | MI-160T1/DHN1-B |
|---------------------------------------|---|-------------------|--------------------------|----------------|----------------|-----------------|-----------------|-----------------|
| Power supply | | | 1-phase,220-240V,50/60Hz | | | | | |
| Capacity | Cooling | kW | 7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0 |
| | Heating | kW | 8.0 | 9.0 | 10.0 | 12.5 | 16.0 | 17.0 |
| Power input | Cooling | W | 180 | 180 | 220 | 380 | 420 | 700 |
| | Heating | W | 180 | 180 | 220 | 380 | 420 | 700 |
| Airflow rate(H/M/L) | | m ³ /h | 1500/1390/1250 | 1450/1340/1190 | 1780/1650/1530 | 2080/1930/1710 | 2860/2440/2010 | 3400/2660/2400 |
| External static pressure(Min/Std/Max) | | Pa | 0/25/196 | 0/37/196 | 0/37/196 | 0/37/196 | 0/50/196 | 0/50/196 |
| Sound pressure level(H/M/L) | | dB(A) | 46/44/42 | 46/44/42 | 50/47/45 | 50/47/45 | 53/50/48 | 54/52/50 |
| Sound power level(H/M/L) | | dB(A) | 57/56/55 | 57/56/55 | 61/59/58 | 61/59/58 | 64/62/61 | 65/64/63 |
| Net dimension(WxHxD) | | mm | 952x420x690 | 952x420x690 | 952x420x690 | 952x420x690 | 1300x420x690 | 1300x420x690 |
| Packing dimension(WxHxD) | | mm | 1090x440x768 | 1090x440x768 | 1090x440x768 | 1090x440x768 | 1436x450x768 | 1436x450x768 |
| Net/gross weight | | kg | 41/47 | 41/47 | 47/53 | 47/53 | 68/70 | 70/77.5 |
| Piping connections | Liquid/gas pipe | mm | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | Wired controller KJR-29B1/BK-E (6 meters connection wire) | | | | | | | |

| Model | | | MI-200T1/DHN1-B | MI-250T1/DHN1-B | MI-280T1/DHN1-B |
|---------------------------------------|---|-------------------|--------------------------|-----------------|-----------------|
| Power supply | | | 1-phase,220-240V,50/60Hz | | |
| Capacity | Cooling | kW | 20.0 | 25.0 | 28.0 |
| | Heating | kW | 22.5 | 26.0 | 31.5 |
| Power input | Cooling | W | 800 | 800 | 800 |
| | Heating | W | 800 | 800 | 800 |
| Airflow rate(H/M/L) | | m ³ /h | 4700/4100/3599 | 4700/4100/3599 | 4700/4100/3599 |
| External static pressure(Min/Std/Max) | | Pa | 40/62/200 | 40/62/200 | 40/62/200 |
| Sound pressure level(H/M/L) | | dB(A) | 59/55/52 | 59/55/52 | 59/55/52 |
| Sound power level(H/M/L) | | dB(A) | 68/65/63 | 68/65/63 | 68/65/63 |
| Net dimension(WxHxD) | | mm | 1443x470x810 | 1443x470x810 | 1443x470x810 |
| Packing dimension(WxHxD) | | mm | 1509x550x990 | 1509x550x990 | 1509x550x990 |
| Net/gross weight | | kg | 108/120 | 108/120 | 108/120 |
| Piping connections | Liquid/gas pipe | mm | Φ9.53x2/Φ15.9x2 | Φ9.53x2/Φ15.9x2 | Φ9.53x2/Φ15.9x2 |
| | Drain pipe | mm | OD Φ32 | OD Φ32 | OD Φ32 |
| Standard controller | Wired controller KJR-29B1/BK-E (6 meters connection wire) | | | | |

Notes:

1. Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 8m(26.25ft.) (horizontal).

2. Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C(44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 8m(26.25ft.) (horizontal).

3. Sound Level is measured 1.4m(4.59ft.) below the unit.

* External static pressure is based on high speed indoor air flow.

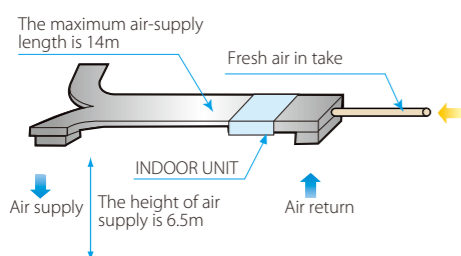
Fresh Air Processing Unit



100% Fresh Air Processing Unit >>

Both fresh air filtration and heating/cooling can be achieved in a single system.

Indoor units and fresh air processing unit can be connected to the same refrigerant system, increasing design flexibility and greatly reducing total system costs.



Specification

| Model | MI-125T1/DHN1-FA | MI-140T1/DHN1-FA | MI-200T1/DHN1-FA | MI-250T1/DHN1-FA | MI-280T1/DHN1-FA | | |
|---------------------------------------|----------------------------|---|------------------|------------------|------------------|----------------|------|
| Power supply | 1-phase, 220-240V, 50/60Hz | | | | | | |
| Capacity | Cooling | kW | 12.5 | 14.0 | 20.0 | 25.0 | 28.0 |
| | Heating | kW | 10.5 | 12.0 | 18.0 | 20.0 | 22.0 |
| Power input | Cooling | W | 370 | 370 | 615 | 670 | 670 |
| | Heating | W | 370 | 370 | 615 | 670 | 670 |
| Airflow rate(H/M/L) | m ³ /h | 2440/2000/1470 | 2440/2000/1470 | 3860/3430/2890 | 3860/3430/2890 | 3860/3430/2890 | |
| External static pressure(Min/Std/Max) | Pa | 0/50/200 | 0/50/200 | 0/62/200 | 0/62/200 | 0/62/200 | |
| Sound pressure level(H/M/L) | dB(A) | 52/50/48 | 52/50/48 | 52/51/49 | 53/52/50 | 53/52/50 | |
| Sound power level(H/M/L) | dB(A) | 63/62/61 | 63/62/61 | 63/62/61 | 64/63/62 | 64/63/62 | |
| Net dimension(WxHxD) | mm | 1300x420x690 | 1300x420x690 | 1443x470x810 | 1443x470x810 | 1443x470x810 | |
| Packing dimension(WxHxD) | mm | 1436x450x768 | 1436x450x768 | 1509x550x990 | 1509x550x990 | 1509x550x990 | |
| Net/gross weight | kg | 63/71 | 63/71 | 108/120 | 108/120 | 108/120 | |
| Piping connections | Liquid/gas pipe | mm | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ32 | OD Φ32 | |
| Operation temperature range | °C | Heating: -5~16; Fan only: 16~20; Cooling: 20~43 | | | | | |
| Standard controller | | Wired controller KJR-29B1/BK-E (6 meters connection wire) | | | | | |

Notes:

- Nominal cooling capacities are based on the following conditions: outdoor air temperature: 33°CDB, 28°CWB, equivalent ref. piping: 8m(horizontal).
 - Nominal heating capacities are based on the following conditions: outdoor air temperature: 0°CDB, -2.9°CWB, equivalent ref. piping: 8m(horizontal).
 - Sound level is measured at 1.4m below the air outlet.
- External static pressure is based on high speed indoor air flow.

Connection Conditions:

- The following restrictions must be observed in order to maintain the indoor units connection to the same system.
- * When outdoor-air processing units are connected, the total connection capacity must be within 50% to 100% of that of the outdoor units.
 - * When outdoor-air processing units and standard indoor units are connected, the total connection capacity of the outdoor-air processing units must not exceed 30% that of the outdoor units.
 - * Outdoor-air processing units can be used without indoor units.
 - * The fresh air processing unit is not available for V4+R system & 8~26kW side discharge outdoor units.

High External Static Pressure >>

External static pressure can be up to 196Pa(models 125 to 140) and 280Pa(models 200 to 280) for more flexible duct applications. The maximum length of air supply is around 14m and the maximum height of air supply is about 6.5m.

Healthy and Comfortable >>

Fresh air is imported, providing a healthy and comfortable living environment.

Four speed fan motor(model 125&140).

High Efficiency and Low Sound Operation >>

Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Wall-mounted

S type panel



R type panel



M9 type panel



M3 type panel



M10 type panel



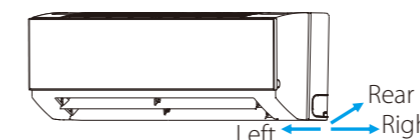
- Auto Restart Function
- Auto Addressing
- Timer
- Auto Defrosting
- Easy-cleaning Panel
- Follow Me
- Anti-cold Air Function
- Auto Swing
- LED Display
- Built-in Filter
- Independent Dehumidification
- Wired Controller

Convenient Installation >>

Multi-directional refrigerant outlet pipe: left\right\rear, more flexible for installation.

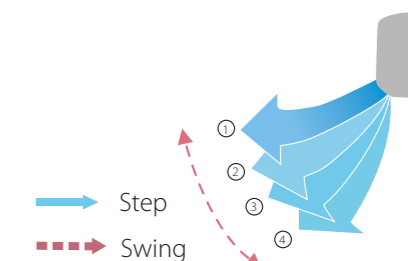
EXV is built-in the indoor unit, compact size.

Adopts new type fixing plate, stable and easy to install.



Auto Swing Louver >>

The Auto Swing Louver function ensures that the air direction corresponds to the mode selected.



High Efficiency and Low Sound Operation >>

Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Various selections >>

S type panel, R type panel and M type panel.

For M type, the elegant new panels enhance aesthetics, suitable for various installation requirements.

Universal body design, matches three styles of interchangeable panels.

Optimal Comfort Through Better Flow Control and Quiet Operations >>

The mechanical expansion valve offers 2,000-stage element positioning to ensure precise flow control and less modulation noise when the EXV is operating for a quiet and comfortable environment. Three air flow speeds: low, medium and high; double air guides. Smoother airflow and less turbulence is ensured by the multi-blade fan and the air guide design.



Specification

Wall-mounted S type panel

| Model | | | MI-15G/DHN1-S | MI-22G/DHN1-S | MI-28G/DHN1-S | MI-36G/DHN1-S | MI-45G/DHN1-S | MI-56G/DHN1-S |
|-----------------------------|-----------------|-------------------|--|---------------|---------------|---------------|---------------|---------------|
| Power supply | | | 1-phase,220-240V,50/60Hz | | | | | |
| Capacity | Cooling | kW | 1.5 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |
| | Heating | kW | 1.7 | 2.4 | 3.2 | 4 | 5 | 6.3 |
| Power input | Cooling | W | 15 | 19 | 19 | 22 | 26 | 31 |
| | Heating | W | 15 | 19 | 19 | 22 | 26 | 31 |
| Airflow rate(H/M/L) | | m ³ /h | 447/389/337 | 505/462/417 | 505/462/417 | 564/499/460 | 841/705/577 | 915/840/708 |
| Sound pressure level(H/M/L) | | dB(A) | 28/25/23 | 31/30/29 | 31/30/29 | 31/30/29 | 38/36/34 | 45/38/34 |
| Sound power level(H/M/L) | | dB(A) | 39/37/36 | 42/41/40 | 42/41/40 | 42/41/40 | 49/48/47 | 56/50/47 |
| Net dimension(WxHxD) | | mm | 915×290×230 | 915×290×230 | 915×290×230 | 915×290×230 | 1072×315×230 | 1072×315×230 |
| Packing dimension(WxHxD) | | mm | 1020×390×315 | 1020×390×315 | 1020×390×315 | 1020×390×315 | 1180×415×315 | 1180×415×315 |
| Net/gross weight | | kg | 11.6/15.2 | 12.0/15.6 | 12.0/15.6 | 12.0/15.6 | 14.4/18.4 | 14.4/18.4 |
| Piping connections | Liquid/gas pipe | 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 |
| | Drain pipe | mm | OD Φ16.5 | OD Φ16.5 | OD Φ16.5 | OD Φ16.5 | OD Φ16.5 | OD Φ16.5 |
| Standard controller | | | Wireless remote controller RM05/BG(T)E-A | | | | | |

Wall-mounted R type panel

| Model | | | MI-71G/DHN1-R3 | MI-80G/DHN1-R3 | MI-90G/DHN1-R3 |
|-----------------------------|-----------------|-------------------|--|----------------|----------------|
| Power supply | | | 1-phase,220-240V,50/60Hz | | |
| Capacity | Cooling | kW | 7.1 | 8.0 | 9.0 |
| | Heating | kW | 8.0 | 9.0 | 10.0 |
| Power input | Cooling | W | 75 | 86 | 86 |
| | Heating | W | 75 | 86 | 86 |
| Airflow rate(H/M/L) | | m ³ /h | 1190/780/580 | 1,320/840/640 | 1,320/840/640 |
| Sound pressure level(H/M/L) | | dB(A) | 46/38/36 | 46/38/36 | 46/38/36 |
| Sound power level(H/M/L) | | dB(A) | 57/50/49 | 57/50/49 | 57/50/49 |
| Net dimension(WxHxD) | | mm | 1250×325×245 | 1250×325×245 | 1250×325×245 |
| Packing dimension(WxHxD) | | mm | 1345×430×335 | 1345×430×335 | 1345×430×335 |
| Net/gross weight | | kg | 18.3/23.4 | 18.3/23.4 | 18.3/23.4 |
| Piping connections | Liquid/gas pipe | mm | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ16.5 | OD Φ16.5 | OD Φ16.5 |
| Standard controller | | | Wireless remote controller RM05/BG(T)E-A | | |

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Sound level is measured 1m(3.28ft.) below the air out-let both horizontally and vertically.

Wall-mounted M type panel

| Model | | | MI-22G/DHN1-M | MI-28G/DHN1-M | MI-36G/DHN1-M |
|------------------------------|-----------------|-------------------|--|---------------|---------------|
| Power supply | | | 220-240V~ 50/60Hz | | |
| Capacity | Cooling | kW | 2.2 | 2.8 | 3.6 |
| | Heating | kW | 2.4 | 3.2 | 4 |
| Power input | Cooling | W | 8 | 9 | 19 |
| | Heating | W | 8 | 9 | 19 |
| Airflow rate (H/M/L) | | m ³ /h | 422/393/356 | 417/370/316 | 656/573/488 |
| Sound pressure level (H/M/L) | | dB(A) | 31/30/29 | 31/30/29 | 33/32/30 |
| Sound power level(H/M/L) | | dB(A) | 43/42/41 | 43/42/41 | 45/44/42 |
| Net dimension (WxHxD) | | mm | 835×280×203 | 835×280×203 | 990×315×223 |
| Packing dimension (WxHxD) | | mm | 935×385×320 | 935×385×320 | 1085×420×335 |
| Net/ Gross weight | | kg | 8.4/12.1 | 9.5/13.1 | 11.4/15.5 |
| Piping connections | Liquid/gas pipe | mm | Φ6.35/Φ12.7 | | |
| | Drain pipe | mm | OD Φ16.5 | | |
| Standard controller | | | Wireless remote controller RM05/BG(T)E-A | | |

| Model | | | MI-45G/DHN1-M | MI-56G/DHN1-M | MI-71G/DHN1-M | MI-80G/DHN1-M |
|------------------------------|-----------------|-------------------|--|---------------|---------------|---------------|
| Power supply | | | 220-240V~ 50/60Hz | | | |
| Capacity | Cooling | kW | 4.5 | 5.6 | 7.1 | 8 |
| | Heating | kW | 5 | 6.3 | 8 | 9 |
| Power input | Cooling | W | 19 | 27 | 49 | 53 |
| | Heating | W | 19 | 27 | 49 | 53 |
| Airflow rate (H/M/L) | | m ³ /h | 594/507/424 | 747/648/547 | 1195/1005/809 | 1195/1005/809 |
| Sound pressure level (H/M/L) | | dB(A) | 35/33/31 | 38/36/34 | 44/39/36 | 44/39/36 |
| Sound power level(H/M/L) | | dB(A) | 47/45/43 | 50/48/46 | 56/51/48 | 56/51/48 |
| Dimension (WxHxD) | | mm | 990×315×223 | 990×315×223 | 1194×343×262 | 1194×343×262 |
| Packing (WxHxD) | | mm | 1085×420×335 | 1085×420×335 | 1290×375×460 | 1290×375×460 |
| Net/ Gross weight | | kg | 12.8/16.9 | 12.8/16.9 | 17/22.4 | 17/22.4 |
| Piping connections | Liquid/gas pipe | mm | Φ6.35/Φ12.7 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ16.5 | | | |
| Standard controller | | | Wireless remote controller RM05/BG(T)E-A | | | |

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Sound level is measured 1m(3.28ft.) below the air out-let both horizontally and vertically.

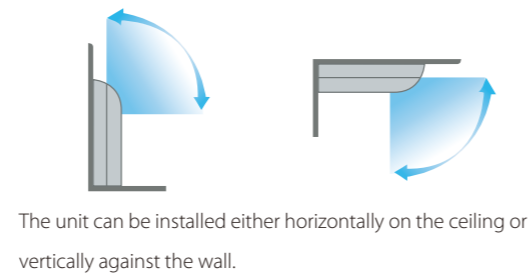
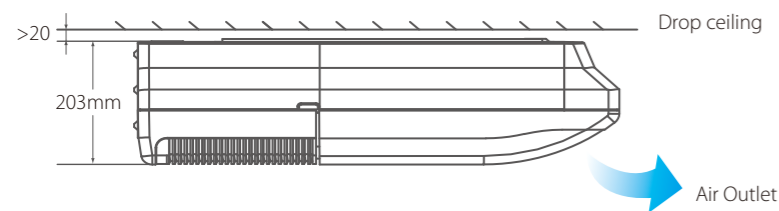
Ceiling & Floor



- Auto Restart Function
- Auto Addressing
- Timer
- Auto Defrosting
- Easy-cleaning Panel
- Follow Me
- Anti-cold Air Function
- Auto Swing
- LED Display
- Built-in Filter
- Independent Dehumidification
- Wired Controller

Convenient Installation >>

The slim and sleek structure design ensures easy installation. It can be installed into a corner of the ceiling even if the ceiling is very narrow.



High Efficiency and Low Sound Operation >>

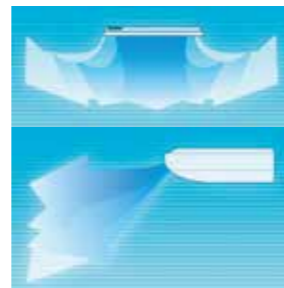
Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Auto Swing and Wide Angle Air Flow >>

Two direction auto swing - vertical and horizontal.

The range of horizontal air discharge is widened which secures wider air flow distribution to provide more comfortable air circulation no matter where the unit is set up.

Three air flow speeds: low, medium and high; double air guides.



Auto Swing & Wide-angle Airflow

More Comfortable >>

Adopts electrical expansion valve, ensuring precise flow control, lower modulation noise when EXV is operating.

Low noise operations; minimum 36 dB(A).

Smoother airflow and less turbulence due to the multi-blade fan and the air guide design.

Specification

| Model | | | MI-36DL/DHN1-C | MI-45DL/DHN1-C | MI-56DL/DHN1-C | MI-71DL/DHN1-C |
|-----------------------------|-----------------|-------------------|--|----------------|----------------|----------------|
| Power supply | | | 1-phase,220-240V,50/60Hz | | | |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | kW | 4.0 | 5.0 | 6.3 | 8.0 |
| Power input | Cooling | W | 23 | 94 | 94 | 94 |
| | Heating | W | 23 | 94 | 94 | 94 |
| Airflow rate(H/M/L) | | m ³ /h | 550/480/420 | 930/830/720 | 930/830/720 | 930/830/720 |
| Sound pressure level(H/M/L) | | dB(A) | 40/38/36 | 43/41/38 | 43/41/38 | 43/41/38 |
| Sound power level(H/M/L) | | dB(A) | 51/50/49 | 54/53/51 | 54/53/51 | 54/53/51 |
| Net dimension(WxHxD) | | mm | 990x203x660 | 990x203x660 | 990x203x660 | 990x203x660 |
| Packing dimension(WxHxD) | | mm | 1089x296x744 | 1089x296x744 | 1089x296x744 | 1089x296x744 |
| Net/gross weight | | kg | 25/31 | 27/33 | 27/33 | 27/33 |
| Piping connections | Liquid/gas pipe | mm | Φ6.35/Φ12.7 | Φ6.35/Φ12.7 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | | | Wireless remote controller RM05/BG(T)E-A | | | |

| Model | | | MI-80DL/DHN1-C | MI-90DL/DHN1-C | MI-112DL/DHN1-C | MI-140DL/DHN1-C |
|-----------------------------|-----------------|-------------------|--|----------------|-----------------|-----------------|
| Power supply | | | 1-phase,220-240V,50/60Hz | | | |
| Capacity | Cooling | kW | 8.0 | 9.0 | 11.2 | 14.0 |
| | Heating | kW | 9.0 | 10.0 | 12.5 | 15.0 |
| Power input | Cooling | W | 126 | 126 | 65x2 | 65x2 |
| | Heating | W | 126 | 126 | 65x2 | 65x2 |
| Airflow rate(H/M/L) | | m ³ /h | 1280/1170/1050 | 1280/1170/1050 | 1890/1700/1580 | 1890/1700/1580 |
| Sound pressure level(H/M/L) | | dB(A) | 45/43/40 | 45/43/40 | 47/45/42 | 47/45/42 |
| Sound power level(H/M/L) | | dB(A) | 56/55/53 | 56/55/53 | 58/56/55 | 58/56/55 |
| Net dimension(WxHxD) | | mm | 1280x203x660 | 1280x203x660 | 1670x244x680 | 1670x244x680 |
| Packing dimension(WxHxD) | | mm | 1379x296x744 | 1379x296x744 | 1764x329x760 | 1764x329x760 |
| Net/gross weight | | kg | 33.5/40 | 33.5/40 | 49/57 | 49/57 |
| Piping connections | Liquid/gas pipe | mm | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 | Φ9.53/Φ15.9 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | | | Wireless remote controller RM05/BG(T)E-A | | | |

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 8m(26.25ft.) (horizontal).
- Floor standing : Sound level is measured 1m(3.28ft.) horizontally and 1m(3.28ft.) vertically from the air-outlet.
Ceiling mounted: Sound level is measured 1m(3.28ft.) horizontally and 1m(3.28ft.) vertically from the air-outlet.

Floor Standing



Easy Installation >>

Floor standing types can be hung on the wall or installed on the floor. The floor type unit can make cleaning and maintenance much easier. Running piping from the rear allows the unit to be hung on walls. Cleaning under the unit, where dust tends to accumulate, is considerably easier.

Easy Maintenance >>

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

High Efficiency and Low Sound Operation >>

Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Optional Panel Styles >>

Concealed type's body is concealed in the skirting board to improve aesthetics. The body is just 212mm deep, and can be installed at the room's perimeter. Special installation methods eliminate noise in the room area. Both air intake from front and air intake from below are optional for exposed floor standing type.

Concealed floor standing type



F3B series concealed type



Air intake from front(F4 series)



Air intake from below(F5 series)

Specification

Floor standing-F3

| Model | MI-22Z/DHN1-F3B | MI-28Z/DHN1-F3B | MI-36Z/DHN1-F3B | MI-45Z/DHN1-F3B | MI-56Z/DHN1-F3B | MI-71Z/DHN1-F3B | MI-80Z/DHN1-F3B | | |
|-----------------------------|--|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|-------------|
| Power supply | 1-phase,220-240V,50/60Hz | | | | | | | | |
| Capacity | Cooling | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |
| | Heating | kW | 2.4 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 9.0 |
| Power input | Cooling | W | 24 | 24 | 21 | 24 | 38 | 62 | 62 |
| | Heating | W | 23 | 24 | 19 | 24 | 41 | 65 | 63 |
| Airflow rate(H/M/L) | m ³ /h | 530/456/400 | 569/485/421 | 624/522/375 | 660/542/440 | 1150/970/830 | 1380/1100/870 | 1380/1100/870 | |
| Sound pressure level(H/M/L) | dB(A) | 36/33/29 | 36/33/29 | 37/34/30 | 37/34/30 | 41/35/31 | 44/39/33 | 44/39/33 | |
| Sound power level(H/M/L) | dB(A) | 47/45/42 | 47/45/42 | 48/46/43 | 48/46/43 | 52/47/44 | 55/51/46 | 55/51/46 | |
| Net dimension(WxHxD) | mm | 840x545x212 | 840x545x212 | 1040x545x212 | 1040x545x212 | 1340x545x212 | 1340x545x212 | 1340x545x212 | |
| Packing dimension(WxHxD) | mm | 939x639x305 | 939x639x305 | 1139x639x305 | 1139x639x305 | 1425x639x305 | 1425x639x305 | 1425x639x305 | |
| Net/gross weight | kg | 21/25 | 21/25 | 28/33 | 28/33 | 32/38 | 32/38 | 35/39 | |
| Piping connections | Liquid/gas pipe | m ³ /h | 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 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | Wireless remote controller RM05/BG(T)E-A | | | | | | | | |

Floor standing-F4/F5

| Model | MI-22Z/DHN1-F4 | MI-28Z/DHN1-F4 | MI-36Z/DHN1-F4 | MI-45Z/DHN1-F4 | MI-56Z/DHN1-F4 | MI-71Z/DHN1-F4 | MI-80Z/DHN1-F4 | | |
|-----------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------|
| Model | MI-22Z/DHN1-F5 | MI-28Z/DHN1-F5 | MI-36Z/DHN1-F5 | MI-45Z/DHN1-F5 | MI-56Z/DHN1-F5 | MI-71Z/DHN1-F5 | MI-80Z/DHN1-F5 | | |
| Power supply | 1-phase,220-240V,50/60Hz | | | | | | | | |
| Capacity | Cooling | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |
| | Heating | kW | 2.4 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 9.0 |
| Power input | Cooling | W | 24 | 24 | 21 | 24 | 38 | 62 | 62 |
| | Heating | W | 23 | 24 | 19 | 24 | 41 | 65 | 63 |
| Airflow rate(H/M/L) | m ³ /h | 530/456/400 | 569/485/421 | 624/522/375 | 660/542/440 | 1150/970/830 | 1380/1100/870 | 1380/1100/870 | |
| Sound pressure level(H/M/L) | F4 | dB(A) | 36/33/29 | 36/33/29 | 37/34/30 | 37/34/30 | 41/35/31 | 44/39/33 | 44/39/33 |
| | F5 | dB(A) | 36/33/29 | 36/33/29 | 37/34/30 | 37/34/30 | 41/35/31 | 44/39/33 | 44/39/33 |
| Sound power level(H/M/L) | F4 | dB(A) | 47/45/42 | 47/45/42 | 48/46/43 | 48/46/43 | 52/47/44 | 55/51/46 | 55/51/46 |
| | F5 | dB(A) | 47/45/43 | 47/45/43 | 48/46/44 | 48/46/44 | 52/47/45 | 55/51/47 | 55/51/47 |
| Net dimension (WxHxD) | F4 | mm | 1000x596x225 | 1000x596x225 | 1200x596x225 | 1200x596x225 | 1500x596x225 | 1500x596x225 | 1500x596x225 |
| | F5 | mm | 1000x677x220 | 1000x677x220 | 1200x677x220 | 1200x677x220 | 1500x677x220 | 1500x677x220 | 1500x677x220 |
| Packing dimension (WxHxD) | F4 | mm | 1089x683x312 | 1089x683x312 | 1289x683x312 | 1289x683x312 | 1589x683x312 | 1589x683x312 | 1589x683x312 |
| | F5 | mm | 1182x683x312 | 1182x683x312 | 1382x683x312 | 1382x683x312 | 1682x683x312 | 1682x683x312 | 1682x683x312 |
| Net/gross weight | F4 | kg | 29/34 | 29/34 | 35/43 | 35/43 | 40/45.5 | 40/45.5 | 41/46.5 |
| | F5 | kg | 27.5/35.5 | 27.5/35.5 | 33/41.5 | 33/41.5 | 38.7/48 | 38.7/48 | 41/50 |
| Piping connections | Liquid/gas pipe | mm | 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 |
| | Drain pipe | mm | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 | OD Φ25 |
| Standard controller | Wireless remote controller RM05/BG(T)E-A | | | | | | | | |

Notes:

- Nominal cooling capacities are based on the following conditions: return air temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent ref. piping: 8m(horizontal).
- Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent ref. piping: 8m(horizontal).
- Specifications of F3B series are measured at 10Pa external static pressure and F4/F5 series at 0Pa.
- Sound level is measured 1m horizontally from the air-outlet and 1m vertically above the floor.

HRV — Heat recovery ventilator

Larger air supply rate
enhanced heat exchange efficiency
enhanced energy saving property

The heat recovery ventilator (HRV) can reclaim heat energy lost through ventilation and reduce the room temperature fluctuation caused by ventilation process. By utilizing the most advanced technology and technics, Midea HRV has extremely good performance. The heat exchanged core is made of special paper processed with chemical treatment, which could realize better temperature and humidity control of the room environment. Temperature exchange efficiency is above 60% and enthalpy exchange efficiency between 50-65%.

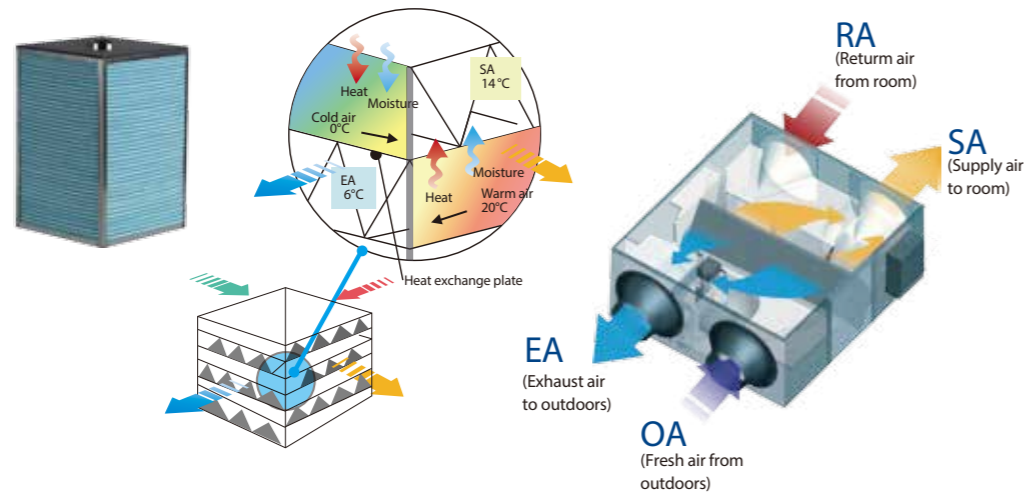
Model Names



HRV-D200 HRV-D500
HRV-D300 HRV-D800
HRV-D400 HRV-D1000



HRV-D1500 HRV-D2000



High efficient DC fan motor >>>

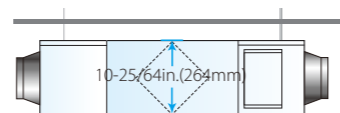
Higher energy efficiency thanks to the DC fan motor.

Low noise >>>

Sound proof material is used to guarantee quiet operation.

Compact design, flexible installation and easy maintenance >>>

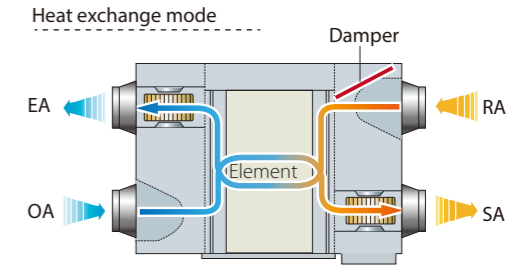
With a min. height of only 10-25/64in.(264mm) and 50lbs(23kg) weight, the unit provides best convenience and possibility for installation in limited spaces.



Multi-modes for different situations >>>

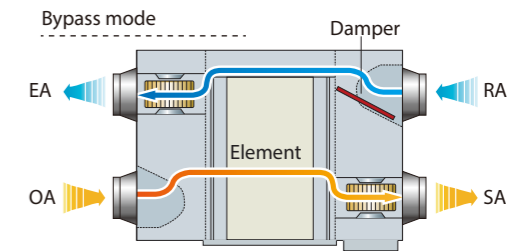
Heat exchange mode

When air flow formed by the fans goes through the heat exchanged core in cross way, due to temperature difference between two channels of the core, thermal transmission happens naturally. In summer days, high temperature outdoor air gets cooled by indoor exhaust air; in winter, low temperature outdoor air gets heated by indoor exhaust air. So the energy contained in exhaust air can be reclaimed and energy efficiency gets improved.



Bypass mode

In mild climate areas or seasons, when temperature and humidity level difference between indoor and outdoor is small, the unit works as conventional ventilation fan. Both supply fan and exhaust fan works at the same speed (Hi/mid/low/auto).



Air supply mode

It is one kind of bypass mode with air supply fan speed higher than exhaust fan speed. It can be used in mild climate area where large amount fresh air is needed.

Exhaust air mode

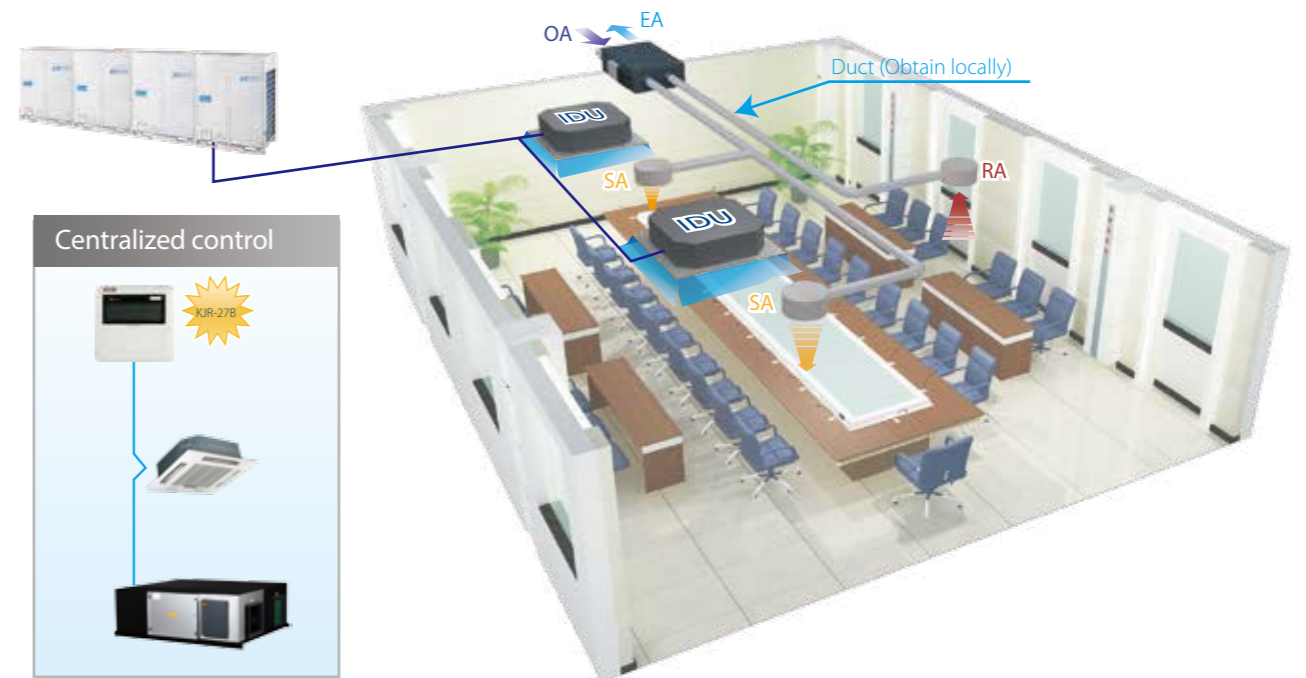
It is also one kind of bypass mode with exhaust fan speed higher than air supply fan speed. It can be used in mild climate area where large amount exhaust air needs to be expelled.

Auto mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoor and indoor temperature. Both the two fans work at low speed.

Flexible control >>>

Interlocking control with other indoor units by controller is possible.



| Sale Model | | | HRV-D200 | HRV-D300 | HRV-D400 | HRV-D500 |
|--------------------------------------|------------------------------|-------------------|------------------------|---------------|---------------|---------------|
| Power supply | | V-Ph-Hz | 220-240V~50/60Hz | | | |
| Cooling | Temp. exchange efficiency | % | 60 | 60 | 60 | 60 |
| | Enthalpy exchange efficiency | % | 50 | 50 | 50 | 50 |
| Heating | Temp. exchange efficiency | % | 65 | 65 | 65 | 70 |
| | Enthalpy exchange efficiency | % | 55 | 55 | 60 | 60 |
| Input power | | W | 61 | 98 | 109 | 170 |
| Current | | A | 0.72 | 0.99 | 1.07 | 1.56 |
| Indoor fan motor | Model | | WZDK100-38G-1 | WZDK100-38G-1 | WZDK100-38G-1 | WZDK100-38G-1 |
| | Insulation class | | E | | | |
| | Output | W | 100 | 100 | 100 | 100 |
| | Pole number | | 8P | 8P | 8P | 8P |
| | Speed | r/min | 800 | 800 | 800 | 800 |
| Indoor fan | material | | ABS | | | |
| | Type | | Centrifugal fan | | | |
| | Diameter | mm | Φ154 | Φ194 | Φ194 | Φ203 |
| | Height | mm | 102 | 100 | 100 | 151 |
| Indoor external static pressure (Hi) | | Pa | 75 | 75 | 80 | 80 |
| Nominal air flow | | m ³ /h | 200 | 300 | 400 | 500 |
| Sound pressure level | | dB(A) | 27 | 30 | 32 | 35 |
| Net dimension (LxWxH) | | mm | 852x665x264 | 928x734x270 | 928x940x270 | 1020x1036x270 |
| Packing size (LxWxH) | | mm | 930x730x445 | 1010x800x450 | 1010x1010x450 | 1120x1120x452 |
| Net/Gross weight | | kg | 25/40 | 27/44 | 32/52 | 35/60 |
| Power supply wire | Wire's qty | | 3 | 3 | 3 | 3 |
| | Code wire cross section | mm ² | 2.5 | 2.5 | 2.5 | 2.5 |
| Controller | | | Wired controller | | | |
| Fresh Air Diameter | | mm | Φ144 | Φ144 | Φ144 | Φ194 |
| Operating temperature range | | °C | -7~43DB, 80%RH or less | | | |

| Sale Model | | | HRV-D800 | HRV-D1000 | HRV-D1500 | HRV-D2000 |
|--------------------------------------|------------------------------|-------------------|------------------------|---------------|-----------------|-----------------|
| Power supply | | V-Ph-Hz | 220-240V~50/60Hz | | | |
| Cooling | Temp. exchange efficiency | % | 60 | 60 | 60 | 60 |
| | Enthalpy exchange efficiency | % | 50 | 50 | 50 | 50 |
| Heating | Temp. exchange efficiency | % | 70 | 70 | 70 | 70 |
| | Enthalpy exchange efficiency | % | 60 | 60 | 60 | 60 |
| Input power | | W | 246 | 360 | 725 | 1340 |
| Current | | A | 2.28 | 3.1 | 5.29 | 9.11 |
| Indoor fan motor | Model | | WZDK170-38G-2 | WZDK170-38G-2 | WZDK750-38G-W-1 | WZDK750-38G-W-1 |
| | Insulation class | | E | | | |
| | Output | W | 170 | 170 | 750 | 750 |
| | Pole number | | 8P | 8P | 8P | 8P |
| | Speed | r/min | 820 | 820 | 1390 | 1390 |
| Indoor fan | material | | ABS | | metal | |
| | Type | | Centrifugal fan | | | |
| | Diameter | mm | Φ245 | Φ245 | Φ234 | Φ234 |
| | Height | mm | 203 | 203 | 261 | 261 |
| Indoor external static pressure (Hi) | | Pa | 100 | 100 | 160 | 170 |
| Nominal air flow | | m ³ /h | 800 | 1000 | 1500 | 2000 |
| Sound pressure level | | dB(A) | 39 | 40 | 51 | 53 |
| Net dimension (LxWxH) | | mm | 1276x1020x388 | 1276x1269x388 | 1600x1270x540 | 1650x1470x540 |
| Packing size (LxWxH) | | mm | 1380x1100x573 | 1390x1350x580 | 1680x1350x720 | 1760x1580x720 |
| Net/Gross weight | | kg | 58/88 | 69/100 | 151/224 | 165/247 |
| Power supply wire | Wire's qty | | 3 | 3 | 3 | 3 |
| | Code wire cross section | mm ² | 2.5 | 2.5 | 2.5 | 2.5 |
| Controller | | | Wired controller | | | |
| Fresh Air Diameter | | mm | Φ242 | Φ242 | 346x326 | 346x326 |
| Operating temperature range | | °C | -7~43DB, 80%RH or less | | | |

Note:

- For the units model of HRV-D200~HRV-D2000, there are 3-speed adjustable air-volume (Hi, Med, Low).
- all the parameters in the is measured at the high speed air-volume.
- Sound level is measured at 1.4m below the center of the body in an anechoic chamber.
- Efficiency is measured under the following conditions:
 * Cooling Condition: Air Exhaust Temp. 27°C DB, 19.5°C WB., Fresh Air Temp. 35°C DB, 28°C WB.
 * Heating Condition: Air Exhaust Temp. 21°C DB, 13°C WB., Fresh Air Temp. 5°C DB, 2°C WB.