

European Union Energy Related Products

Residential Air Conditioner

2014



Residential Air Conditioner Division
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The noise level data reflects the level in anechoic chamber.
Specifications subject to change without notice.

Distributed by:

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Create a beautiful life
for human beings

Midea Group

The most comprehensive home appliance manufacturer in China.



RAC Division

Having the largest and most complete AC industry chain.

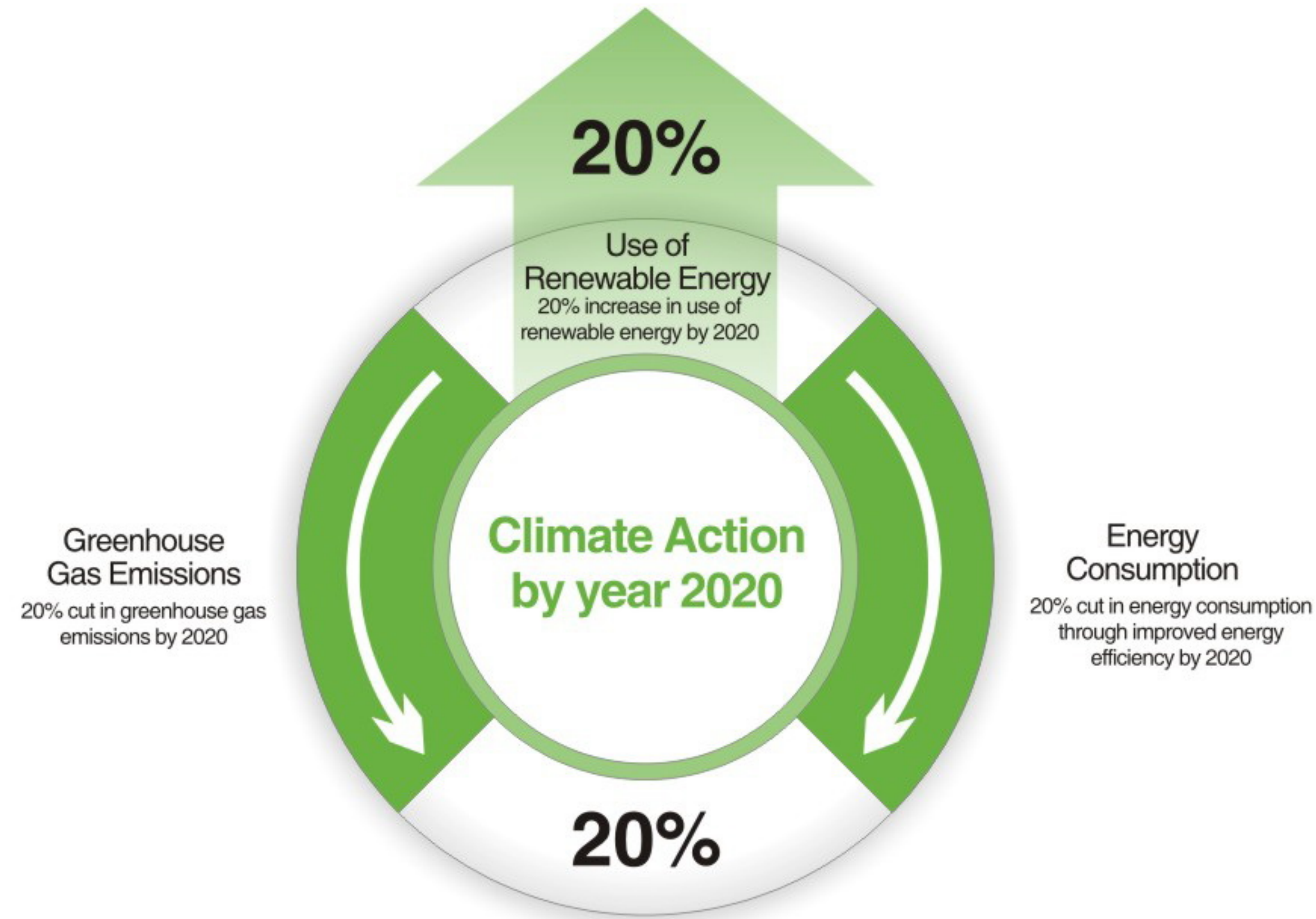
Full Range Residential Air conditioner products: Split, Window, Portable, Dehumidifier, and Light Commercial.

6 domestic and 5 overseas manufacturing bases, domestic manufacturing bases cover 2450 square km.

Annual production capacity over 30 million sets, equipped with the largest and most advanced CKD & SKD production lines and workshops with capacity over 2 million sets per year.



Climate Action By 2020



Midea has full ranges residential air conditioner products to meet EU Fan Efficiency Regulation and Energy Classification Regulation.

Fan Efficiency Regulation

COMMISSION REGULATION (EU) No 327/2011 of 30 March 2011
 Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for fans driven by motors with an electric input power between 125W and 500 kW.



Enters into force: 26.04.2011

Stages: 2 (01.01.2013,01.01.2015)

Expected energy saving potential: 34TWH(by 2020)



Environment, We Care We Do

Energy Classification Regulation

The provisions of this regulation should apply to air-to-air air conditioners up to 12KW cooling power output (or heating power output, if only heating function is provided).

Energy Label Data:

- Manufacturer: Midea
- Model: MS11PU-09HRFN1-QRD0W / MOC-09HFN1-QRD1W
- Energy Class: **A**
- Annual energy consumption, kWh in cooling mode: 815
- Cooling output, kW: 5.3
- Energy efficiency ratio: 3.25
- Heat output, kW: 6.0
- Heating performance: A
- Noise (dB(A) re 1 pW): 44

Efficiency Scales:

- EER (Cooling mode): A (3.20 > EER), B (3.20 > EER > 3.00), C (3.00 > EER > 2.80), D (2.80 > EER > 2.60), E (2.60 > EER > 2.40), F (2.40 > EER > 2.20), G (2.20 > EER)
- COP (Heating mode): A (3.60 > COP), B (3.60 > COP > 3.40), C (3.40 > COP > 3.20), D (3.20 > COP > 2.80), E (2.80 > COP > 2.60), F (2.60 > COP > 2.40), G (2.40 > COP)

SEER/SCOP Scale:

- SEER (Cooling mode): A+++ (SEER > 8.50), A++ (6.10 < SEER < 8.50), A+ (5.60 < SEER < 6.10), A (5.10 < SEER < 5.60), B (4.60 < SEER < 5.10), C (4.10 < SEER < 4.60), D (3.60 < SEER < 4.10), E (3.10 < SEER < 3.60), F (2.60 < SEER < 3.10), G (SEER < 2.60)
- SCOP (Heating mode): A+++ (SCOP > 5.10), A++ (4.60 < SCOP < 5.10), A+ (4.00 < SCOP < 4.60), A (3.40 < SCOP < 4.00), B (3.10 < SCOP < 3.40), C (2.80 < SCOP < 3.10), D (2.50 < SCOP < 2.80), E (2.20 < SCOP < 2.50), F (1.90 < SCOP < 2.20), G (SCOP < 1.90)




Additional Metrics:

- SEER: 7.0, SCOP: 4.0
- Power consumption: kW 2.8, kWh/annum 140
- Sound power level: 51 dB, 59 dB

Old Energy Labelling Points		New Energy Labelling Points
Rated efficiency • Full capacity • One point temperature condition → EER COP	→	Seasonal efficiency • Integrates part load capacity • Optimised for several rating temperatures → SEER SCOP
Operating power consumption	→	Total power consumption • Operating power consumption • Standby power consumption • Crankcase heater • Thermo off
Sound pressure level	→	Sound power level New criteria

Line-up 2014

Solar Inverter

Series	Appearance	SCOP	12000Btu/h	Page
Oasis		4.0	●	P07
Compact Round Flow Cassette		3.8		P07
Duct		3.8	●	P07





Split




Series	Appearance	SCOP	9000Btu/h	12000Btu/h	18000Btu/h	24000Btu/h	Page
Premier		4.0	●	●			P10-11
Oasis		4.6	●				P12-13
		4.0	●	●	●	●	
Fairwind		4.0	●	●	●	●	P14-15
Luna		3.8	●	●	●	●	P16-17
RF		3.8	●	●	●	●	P18-19

Light Commercial

Series	Appearance	SCOP	12000Btu/h	18000Btu/h	24000Btu/h	30000Btu/h	36000Btu/h	48000Btu/h	60000Btu/h	Page
Universal Outdoor Unit			●	●	●	●	●	●	●	P20-21
Compact Round Flow Cassette		3.8	●	●						P22-23
Super Slim Round Flow Cassette		3.8		●	●	●	●	●	●	P25-24
Ceiling & Floor		3.8		●	●	●	●	●	●	P27-26
Duct		3.8	●	●	●	●	●	●	●	P28-29
Console		3.8	●	●						P30

Free Match


Outdoor Unit	Appearance	SCOP	14000Btu/h	18000Btu/h	21000Btu/h	27000Btu/h	28000Btu/h	36000Btu/h	Page
1 Drive 2		3.8	●	●					P31-32
1 Drive 3		3.8			●	●			P31-32
1 Drive 4		3.8					●	●	P31-32
1 Drive 5		3.8						●	P31-32

Indoor Unit	Appearance	SCOP	7000Btu/h	9000Btu/h	12000Btu/h	18000Btu/h	Page
Premier		3.8		●	●		P33
Oasis		3.8	●	●	●	●	P33
Fairwind		3.8	●	●	●	●	P34
Luna		3.8	●	●	●	●	P34
Console		3.8	●	●	●	●	P35
Compact Round Flow Cassette		3.8	●	●	●	●	P35
Duct		3.8	●	●	●	●	P36

Portable

Series	Appearance	9000Btu/h	12000Btu/h	Page
PS		●		P37
PD		●	●	P38

Dehumidifier

Series	Appearance	10L/Day	16L/Day	20L/Day	30L/Day	Page
DG		●	●	●	●	P39

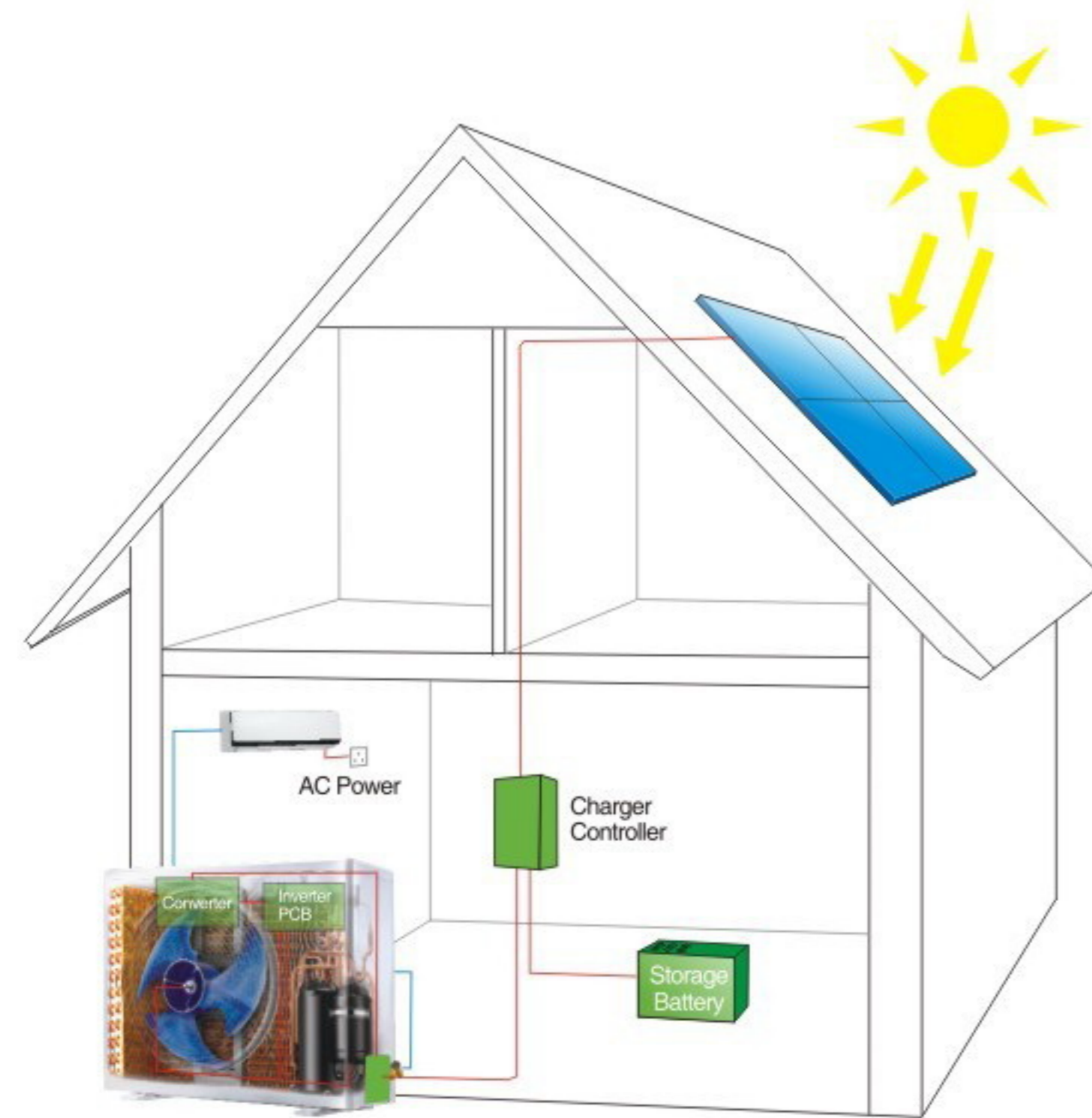
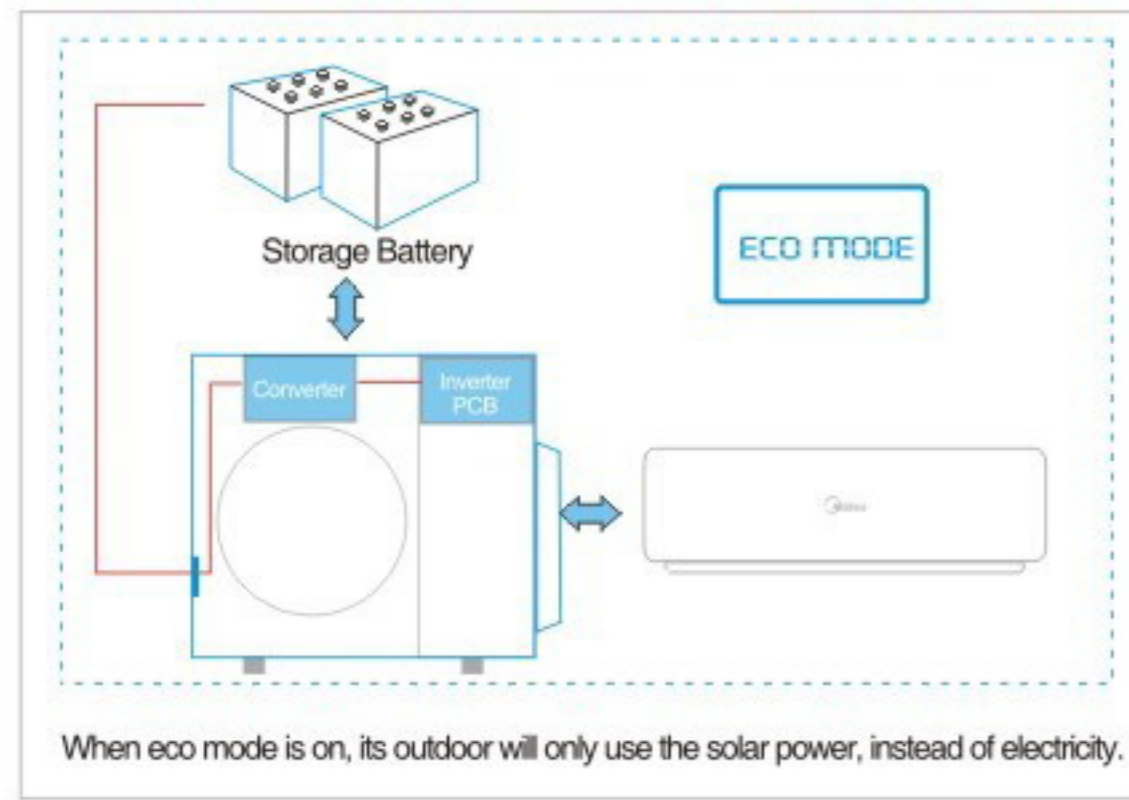
Standard Features

Green Design

The combination of Solar energy and DC inverter technology ensures the system to be most environmental caring system.

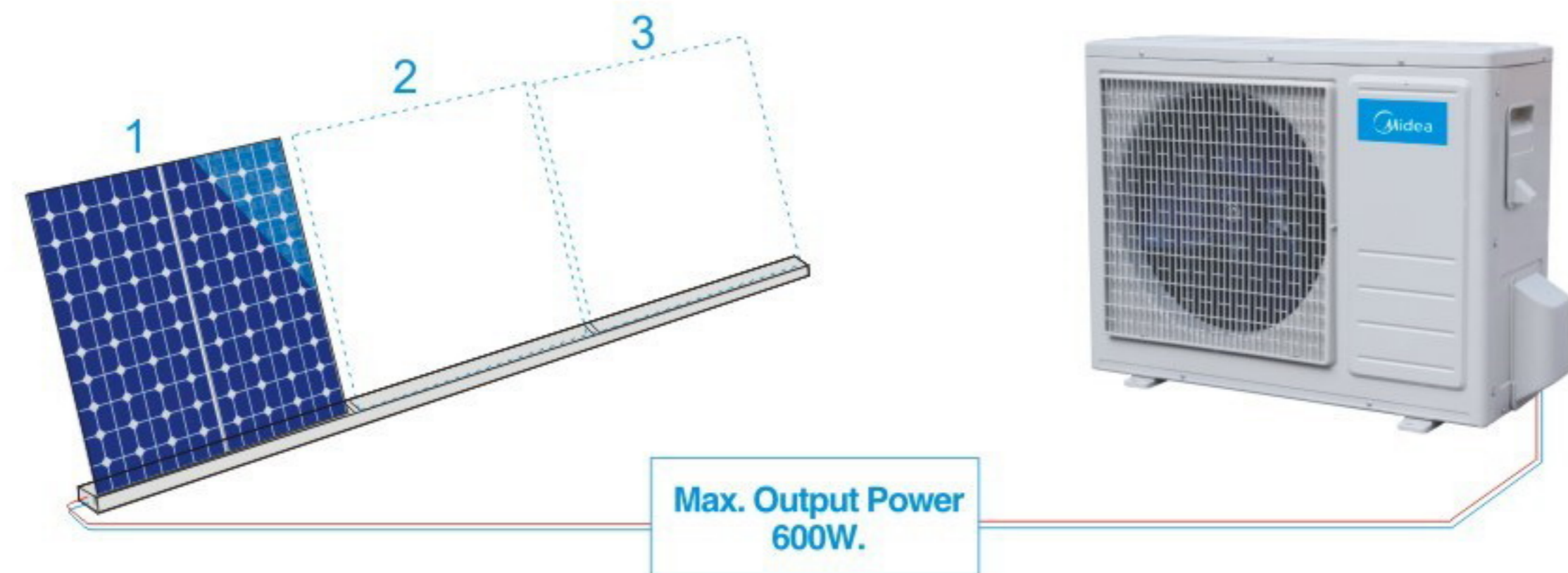
Smart Energy Management

Midea's Solar-inverter system will store the extra solar power in day time. Special PCB design makes sure the system will take priority to use solar power.



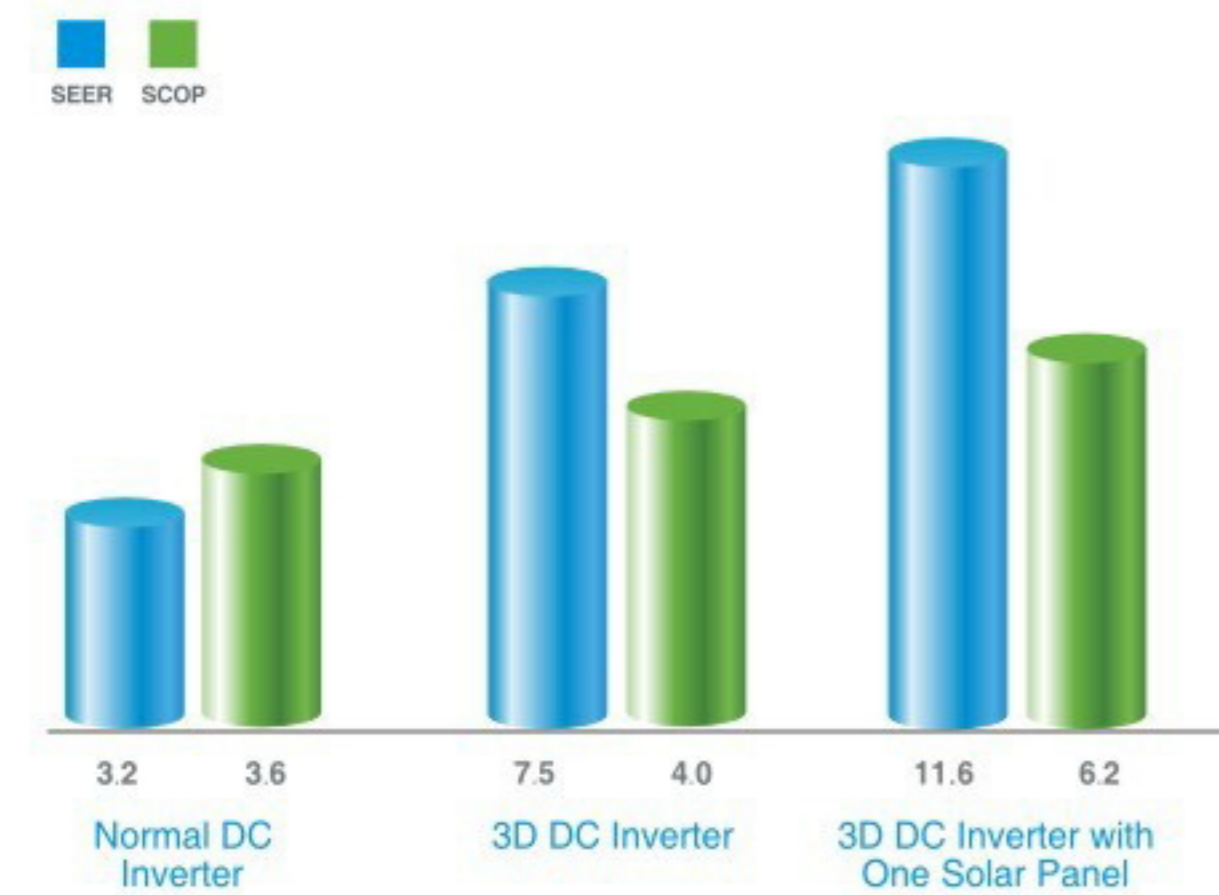
Flexible Installation

Easy-installed battery with different capacities available. Flexible module design makes it easy to install solar PV panel with maximum 3 pieces and total power 600W.



High Energy Efficiency

The combination of Solar Panel and 3D DC inverter technology ensures the system to reach A++ level.



Advanced Charger Controller

Providing energy source (Electricity or Solar Energy) and timely energy consumption data for your reference.



Solar Inverter



Standard Features



Optional Features



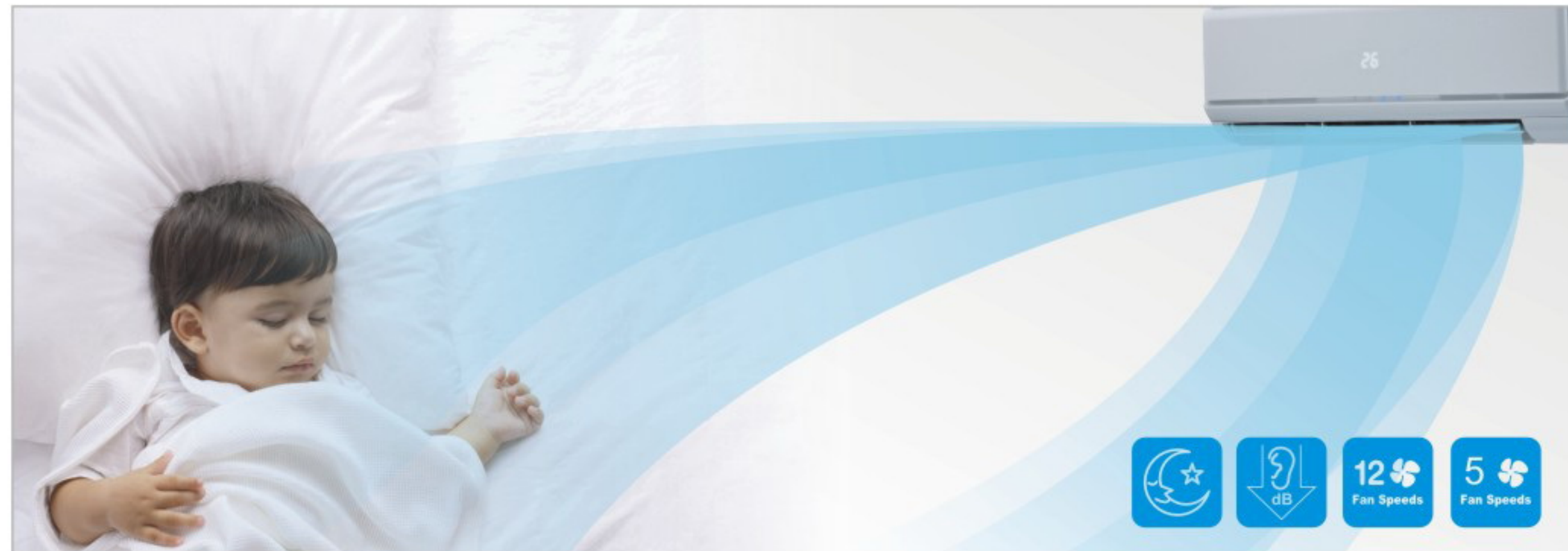
Model No.	Indoor Unit	MS11M-12HRFN1-QRD0GS(A)	MCA2-12HRFN1-QRC8GS	MTB-12HWFN1-QRC8GS
	Outdoor Unit	MOC-12HRFN1-QRD0GS	MOC-12HRFN1-QRD0GS	MOC-12HRFN1-QRD0GS



Power & Inverter type		MS11M-12HRFN1-QRD0GS(A)	MCA2-12HRFN1-QRC8GS	MTB-12HWFN1-QRC8GS
Power supply	V-, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC	3D DC
Capacity				
Cooling(min-rated-max)	(Btu/h)	3800-12500-15200	4000-12500-15200	4000-12500-15200
	(kW)	1.1-3.7-4.5	1.2-3.7-4.5	1.2-3.7-4.5
Heating(min-rated-max)	(Btu/h)	3500-13000-16500	3800-13500-16500	3800-13500-16500
	(kW)	1.0-3.8-4.8	1.1-4.0-4.8	1.1-4.0-4.8
Performance				
SEER (Average)	W/W	7.5	5.6	5.3
Energy Rate	Cooling	A++	A+	A
SCOP(Average)	W/W	4.0	3.8	3.8
Energy Rate	Heating	A+	A	A
Tol	°C	-15	-15	-15
Air Flow Volume (m3/h)	Indoor	800/650/550	800/710/560	800/650/550
Sound Power	Indoor(Hi)	54	54	57
Noise Level (dB(A))	Outdoor	60	61	61
Dimension & Weight & Piping size				
Net Dimension (mm)	Indoor (W*H*D)	990x315x218	570x570x260	700x635x210
	Panel(W*H*D)	-	647x647x50	-
	Outdoor (W*H*D)	760x590x285	760x590x285	760x590x285
Net Weight (kg)	Indoor/Outdoor	11.5/38	16/38	11.5/38
Packing Dimension (mm)	Indoor (W*H*D)	1065x400x300	655x655x290	915x655x290
	Panel(W*H*D)	-	715x715x123	-
	Outdoor (W*H*D)	887x645x355	887x645x355	887x645x355
Gross Weight (kg)	Indoor/Outdoor	14/-/40	19.5/40	19.5/-/24.5
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)
	Gas	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
Applicable area & Stuffing Quality				
Applicable Area (m2)		18-29	18-29	18-29
Stuffing Quantity (Set)	20'/40'/40'HQ	83/173/208	72/152/168	74/156/182

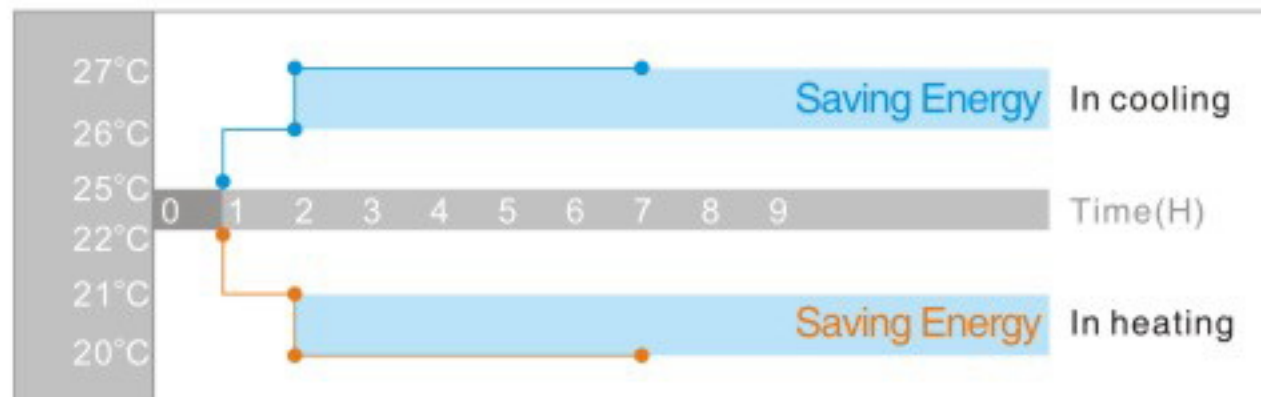
Standard Features

Comfort



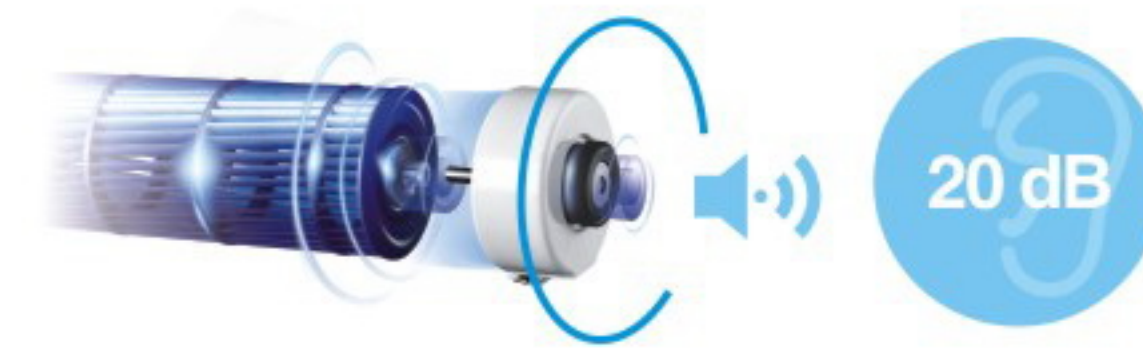
Sleep Mode

This air conditioner will automatically increase cooling or decrease heating 1°C per hour for the first two hours, then hold steady for the next 5 hours after that it will switch off. This function maintains both energy saving and comfort in the night.



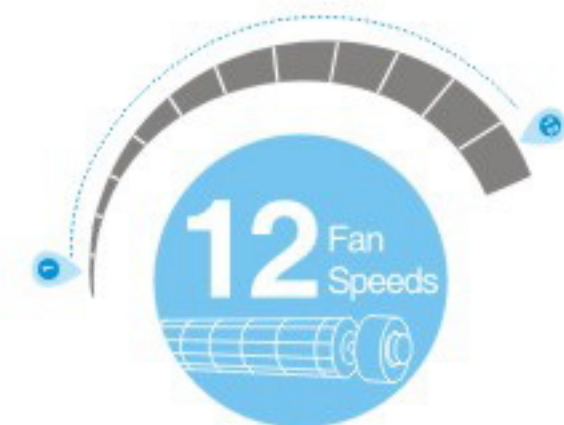
Silent Mode

Indoor fan will run at super breeze speed and indoor unit noise level can be extremely low to 20 dB when the unit enters silent mode operation.



12 Grades Indoor Fan Speeds

Up to 12 grades indoor fan speeds ensure more accurate control and bring more comfortable air flow.



5 Grades Outdoor Fan Speeds

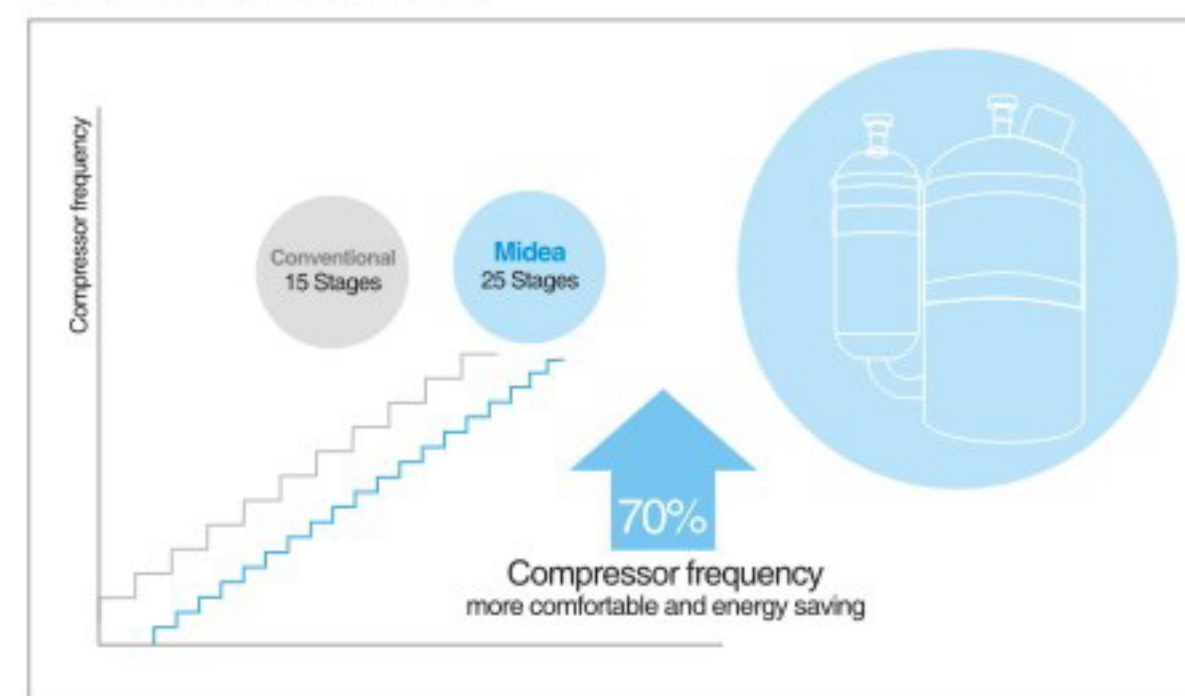
With DC fan motor, outdoor fan speeds increased from 2 grades to 5 grades, more comfortable and energy saving.



Energy Saving

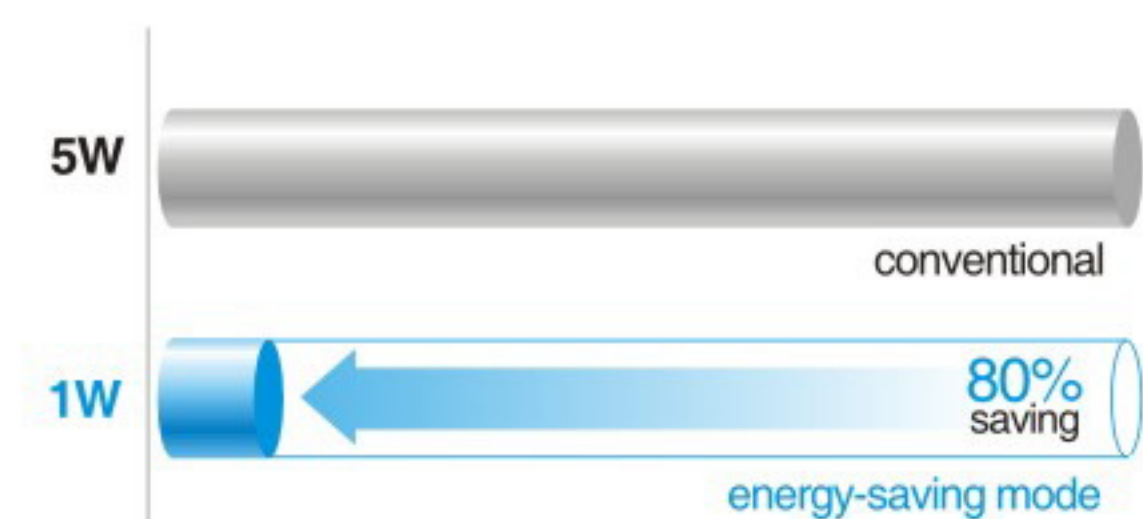
Wide Operation Range

With up to 25 stages (F1-F25) of compressor frequency, the frequency range increased around 70%, making the system running more comfortable and energy saving due to smooth and accurate control.



1W Standby

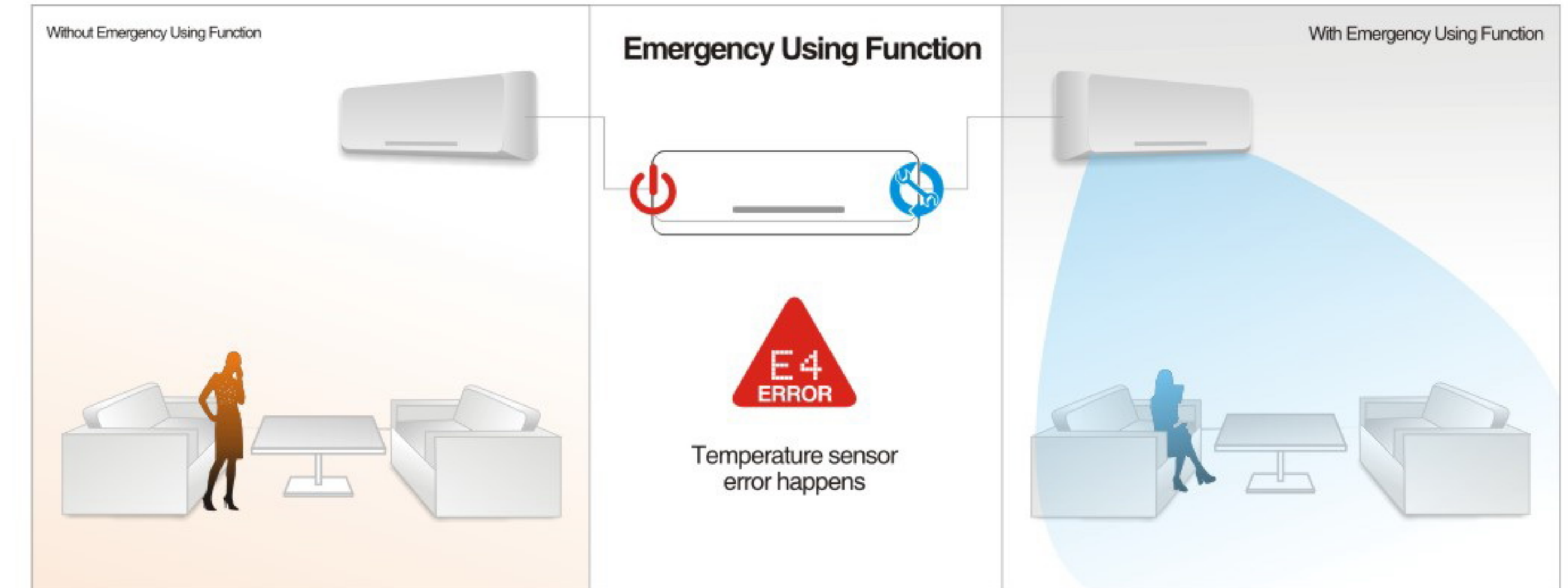
Intelligent on-off technology enables Midea products automatically enter energysaving mode when standby, cut energy consumption from normal 5W to 1W which counts 80% of saving.



Convenience

Emergency Using Function

Normally, when temperature sensor error happens, the air conditioner will display error code and stop immediately. With this function, when temperature sensor error happens, the air conditioner will display error code and continue running in a proper status instead of stopping immediately, to avoid the case that air conditioner is in urgent need.



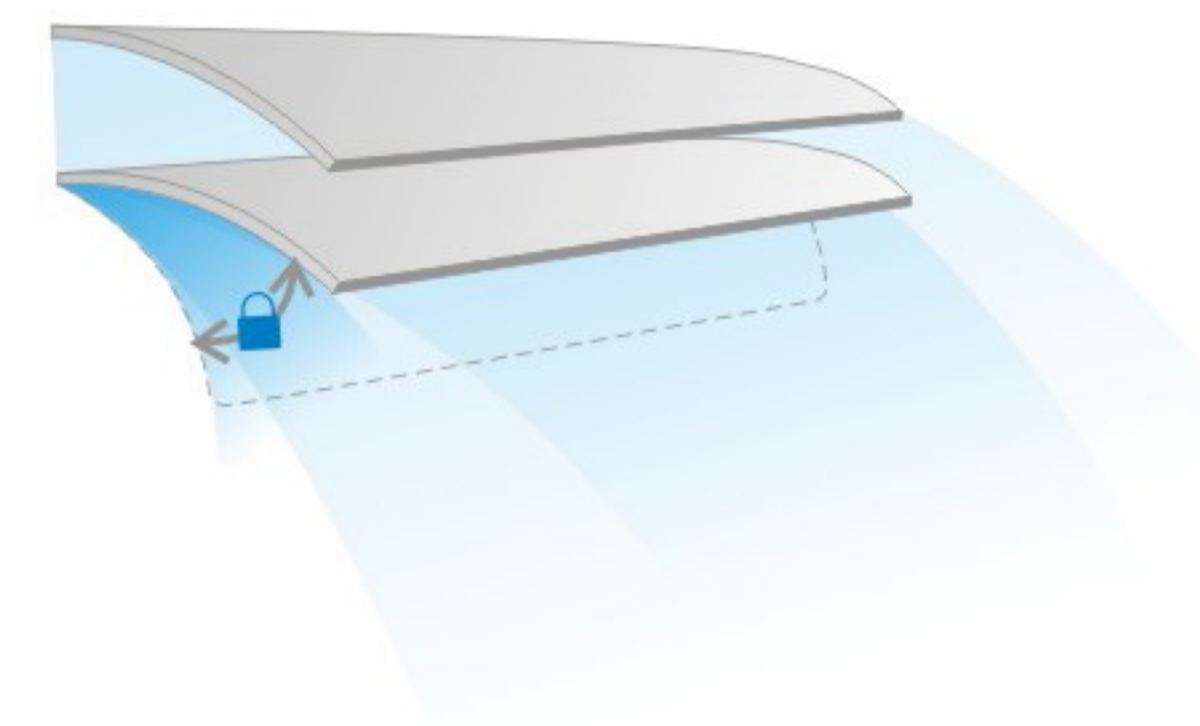
Refrigerant Leakage Detect

When refrigerant leakage is detected indoor, unit will show error code "EC" and stop automatically. This function can better protect compressor from being damaged by high temperature due to refrigerant leakage.



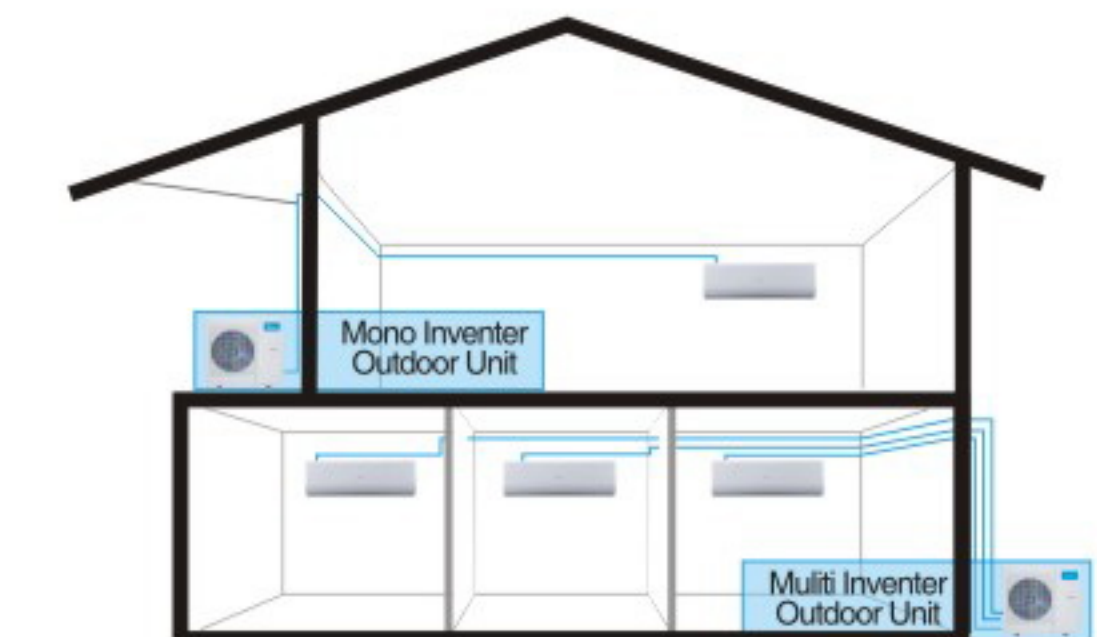
Louver Position Memory Function

When you start the unit next time, the angle of horizontal louver will automatically move back to the same position as you set last time.



Mono & Multi Compatible (exclude 24k model)

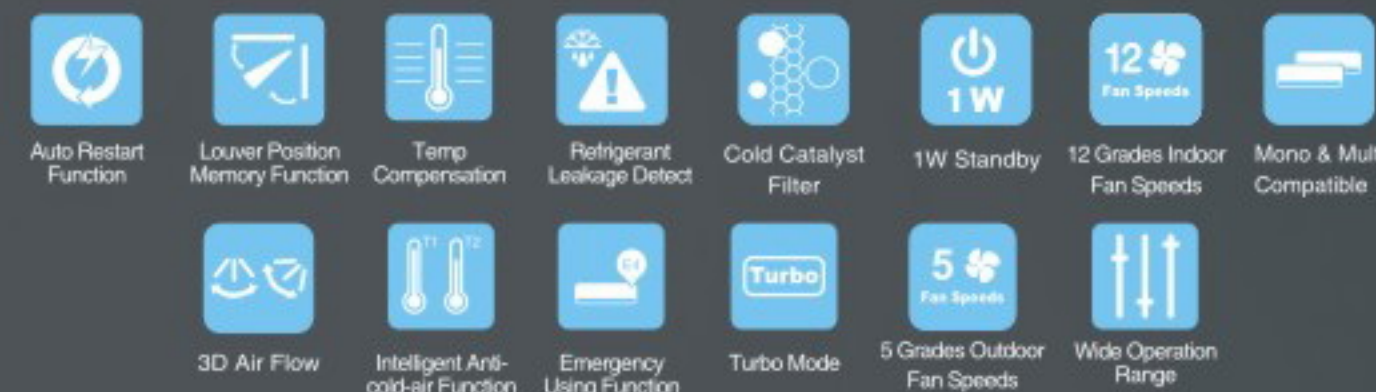
Indoor unit is compatible for both mono and multi inverter system. Easy to choose the suitable indoor unit and outdoor unit for your unique request, and it comes handy for ware house and stock administration.



Premier split



Standard Features



Optional Features



Specification

Model No.	Indoor Unit Outdoor Unit	MS11PU-09HRFN1-QRD0W MOC-09HFN1-QRD1W	MS11PU-12HRFN1-QRD0W(B) MOC1-12HFN1-QRD0W
Power & Inverter type			
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC
Capacity			
Cooling(min-rated-max)Btu/h		3500-10000-13000	4000-12400-14000
kW		1.1-2.9-3.8	1.2-3.6-4.7
Heating(min-rated-max)Btu/h		3500-10500-14500	3800-12400-16000
kW		1.0-3.1-4.2	1.1-3.6-4.7
Performance			
SEER (Average)	W/W	7.1	6.2
Energy Rate	Cooling	A++	A++
SCOP(Average)	W/W	4	4.0
Energy Rate	Heating	A+	A+
Tol	°C	-15	-15
Air Flow Volume (m3/h)	Indoor	620/480/370	620/480/370
Sound Power	Indoor(Hi)	53	49
Noise Level (dB(A))	Outdoor	59	60
Dimension & Weight & Piping size			
Net Dimension (mm)	Indoor (W*H*D)	898*298*148	898*298*148
	Outdoor (W*H*D)	760*590*285	760*590*285
Net Weight (kg)	Indoor/Outdoor	10/35	10/35
Packing Dimension (mm)	Indoor (W*H*D)	960*370*250	960*370*250
	Outdoor (W*H*D)	887*645*355	887*645*355
Gross Weight (kg)	Indoor/Outdoor	13/37	13/37
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)
	Gas	Ø9.52(3/8)	Ø9.52(3/8)
Applicable area & Stuffing Quantity			
Applicable Area (m2)		13-22	18-29
Stuffing Quantity (Set)	20/40/40/HQ	93/198/230	93/198/230



3D Air Flow

Combines vertical and horizontal auto swing to ensure an even distribution of air throughout the room.



Compact Design and Sleek Appearance

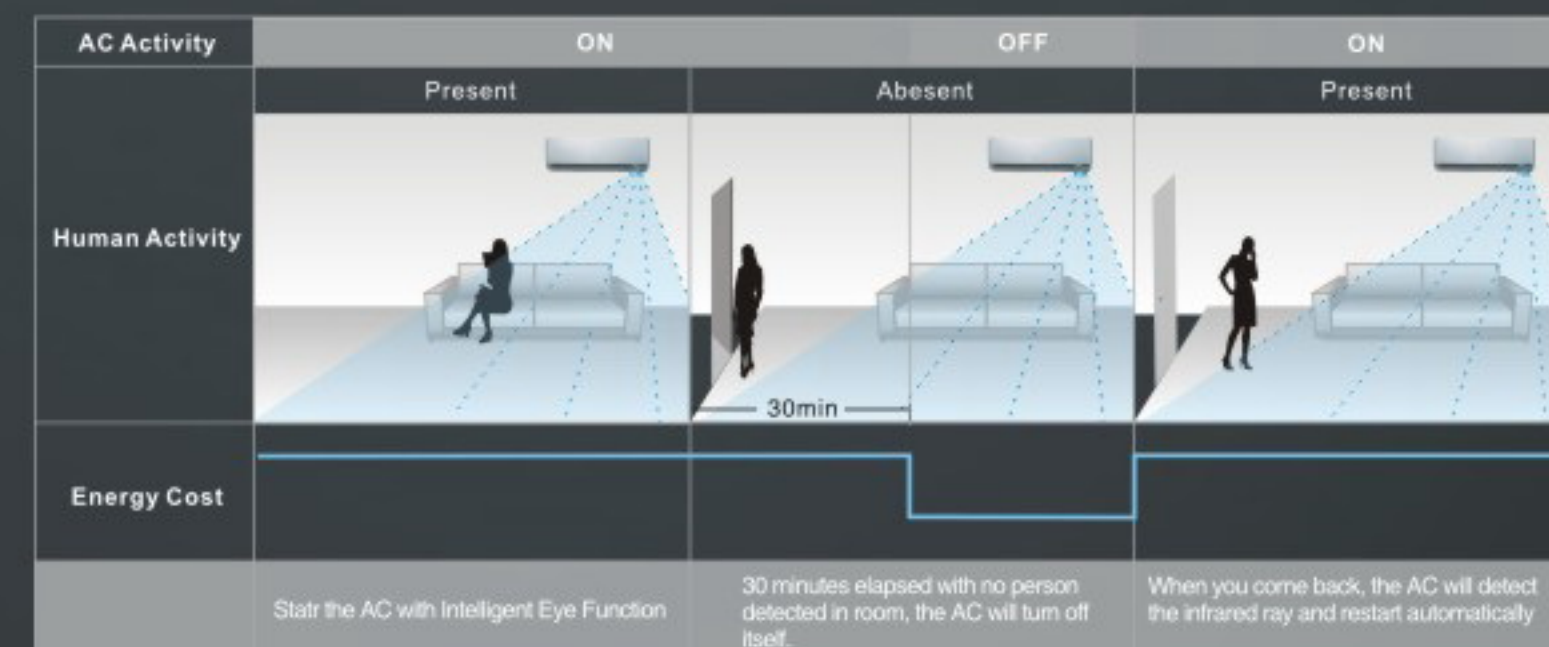
Fashion metal wire drawing and sliding panel,bring visual enjoyment to your home decoration.



148mm
Super Slim

Intelligent Eye Detector(optional)

With the built-in infrared sensor, the indoor unit detects human movement. The AC will turn off if you leave the room for 30 minutes and turn on when you come back, which helps saving more energy.



Oasis split



Standard Features



Optional Features



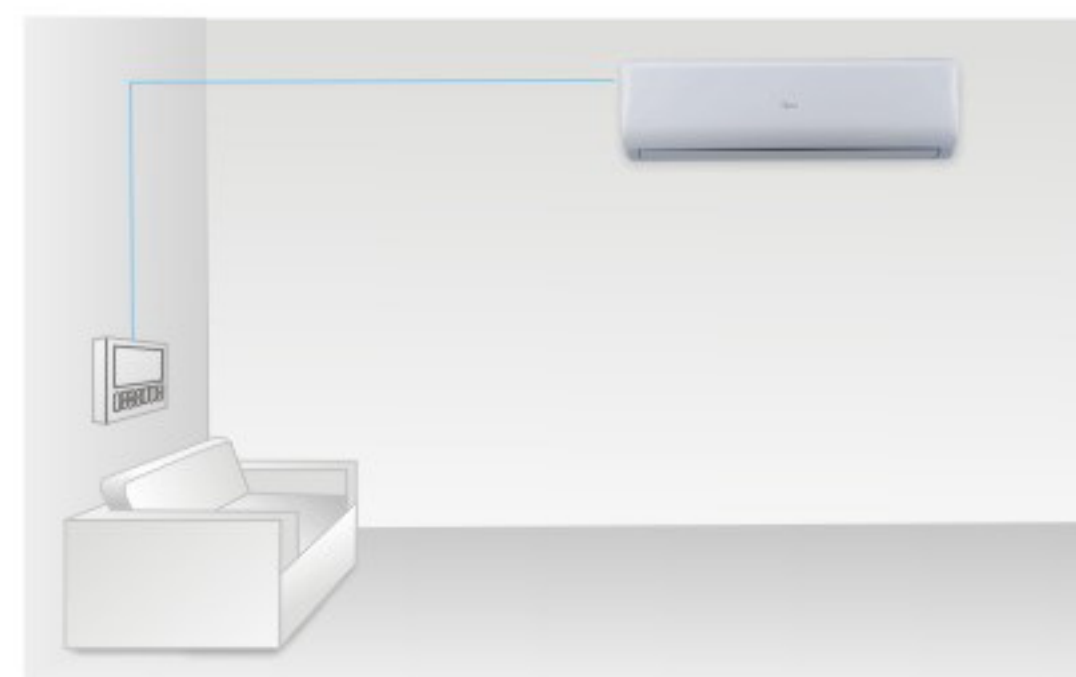
Supreme Energy Efficiency

With world class energy efficiency, enjoy comfortable surroundings whilst saving energy.



Wired Control (Optional)

Compared with infrared remote controller, wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



Specification

Model No.	Indoor Unit Outdoor Unit	MS11MU-09HRFN1-QRD6W MOZ-09HRFN1-QRD6W	MS11MU-09HRFN1-QRD0W(A) MOB-09HRFN1-QRC8W	MS11MU-12HRFN1-QRD0W(A) MOB-12HRFN1-QRC8W	MS11MU-18HRFN1-QRD0W MOC-18HRFN1-QRC4W	MS11M1-24HRFN1-QRD0W MOF-24HRFN1-QRC8W
Power & Inverter type						
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC	3D DC	3D DC	3D DC
Capacity						
Cooling(min-rated-max)Btu/h		3600-9500-13000	3600-9000-125000	3800-12500-14500	5500-18000-21500	11000-23000-26000
	kW	1.0-2.8-3.8	1.1-2.6-3.7	1.1-3.7-4.2	1.6-5.3-6.3	3.2-6.7-7.6
Heating(min-rated-max)Btu/h		3400-10000-14500	3400-10000-14000	3500-13000-15600	5200-18500-22500	10000-25000-28500
	kW	1.0-2.9-4.2	1.0-2.9-4.1	1.0-3.8-4.6	1.5-5.4-6.6	2.9-7.3-8.4
Performance						
SEER (Average)	W/W	7.8	5.8	7.4	6.1	6.2
Energy Rate	Cooling	A++	A+	A++	A++	A++
SCOP(Average)	W/W	4.6	4.0	4.2	4.0	4.0
Energy Rate	Heating	A++	A+	A+	A+	A+
Tol	°C	-22	-15	-15	-15	-15
Air Flow Volume (m3/h)	Indoor	630/490/380	530/460/350	630/490/380	1000/780/650	1450/1280/1050
Sound Power	Indoor(Hi)	55	53	56	56	63
Noise Level (dB(A))	Outdoor	64	64	64	64	67
Dimension & Weight & Piping size						
Net Dimension (mm)	Indoor (W*H*D)	835x280x198	750x280x198	835x280x198	990x315x218	1186x340x258
	Outdoor (W*H*D)	793x530x288	780x540x250	780x540x250	760x590x285	845x700x320
Net Weight (kg)	Indoor/Outdoor	9/35	7/29.5	9/29.5	12/35	16/48
Packing Dimension (mm)	Indoor (W*H*D)	910x355x270	830x355x270	910x355x270	1065x400x300	1265x420x340
	Outdoor (W*H*D)	905x610x400	887x645x355	887x645x355	887x645x355	965x755x395
Gross Weight (kg)	Indoor/Outdoor	11/37	9/31.5	11/31.5	14/37	22/50
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø12.7(1/2)	Ø15.9(5/8)
Applicable area & Stuffing Quantity						
Applicable Area (m2)		13-22	13-22	18-29	25-42	35-58
Stuffing Quantity (Set)	20/40/40/HQ	90/184/221	108/231/260	96/206/239	85/175/208	58/126/141



Fairwind split



Standard Features

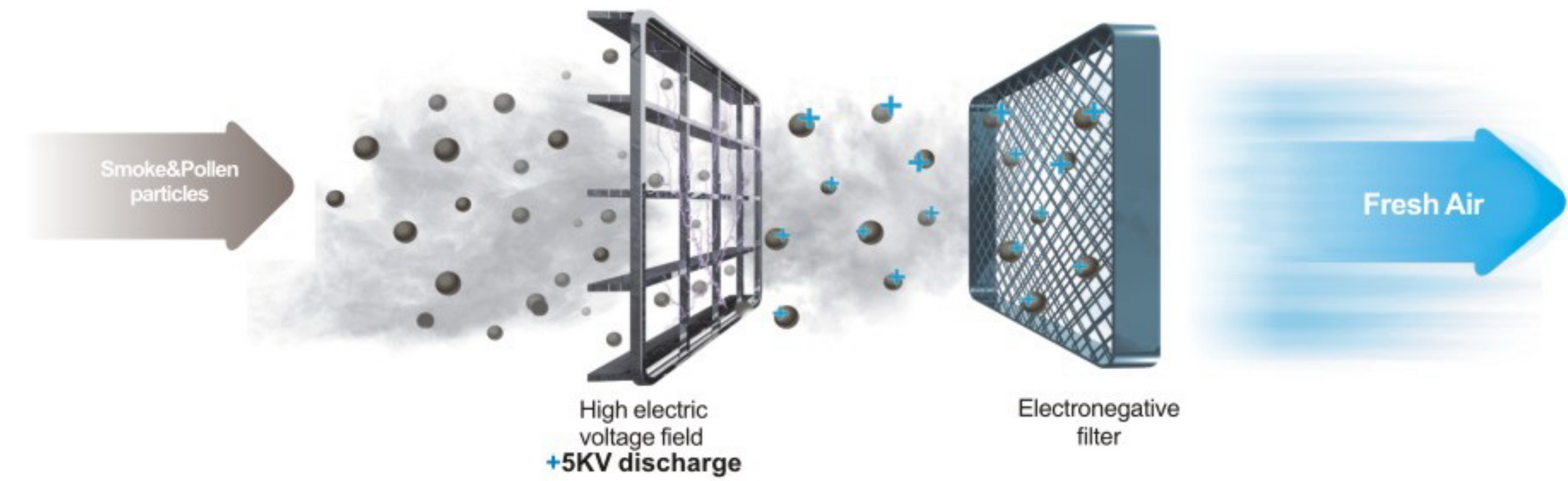


Optional Features



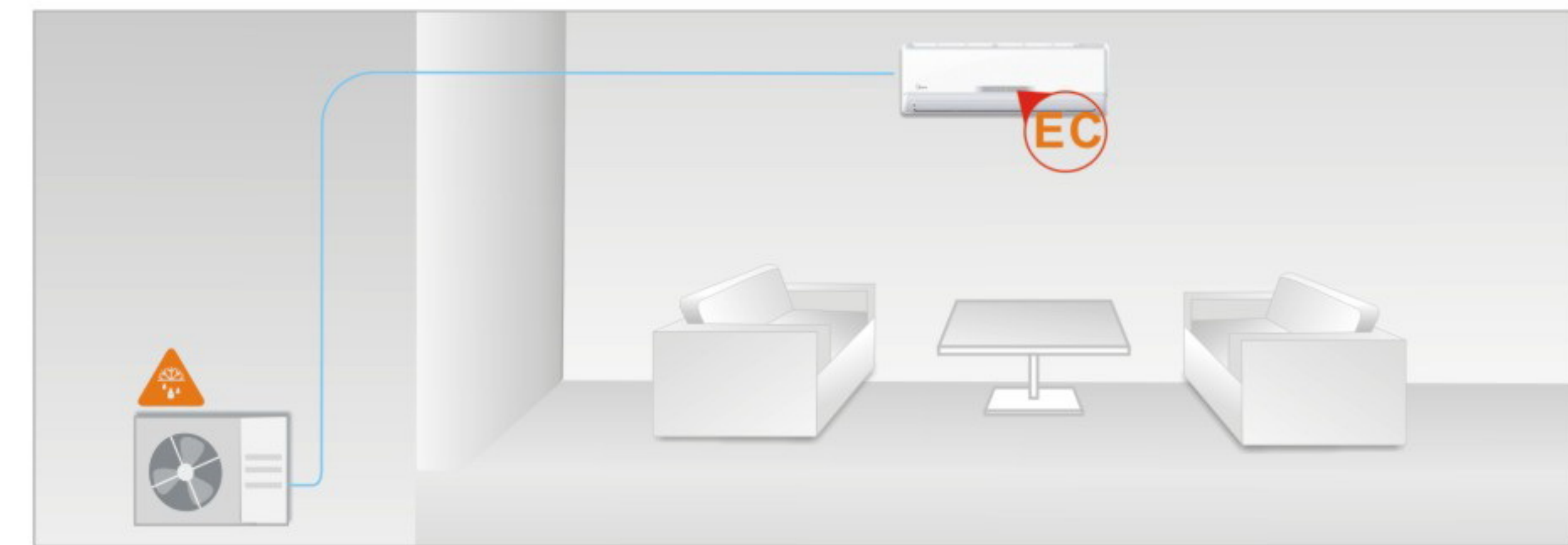
Plasma(Optional)

Generate a high voltage electrostatic zone, absorb and eliminate dust, smoke and pollen particles. It also deodorizes air as removing tobacco odours, garbage smells etc.



Refrigerant Leakage Detection

With this new technology, the indoor unit will alarm when the refrigerant leakage reach to a certain amount to protect the compressor.



Specification

Model No.	Indoor Unit Outdoor Unit	MS12FU-09HRDN1-QRD0W MOB-09HFN1-QRC8W	MS12FU-12HRFN1-QRD0W MOB-12HFN1-QRC8W	MS12FU-18HRFN1-QRD0W MOC1-18HFN1-QRC8W	MS12F-24HRFN1-QRD0W MOF-24HFN1-QRC8W
Power & Inverter type					
Power supply	V-, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		2D DC	3D DC	3D DC	3D DC
Capacity					
Cooling(min-rated-max)Btu/h		3300-9800-11800	3600-12000-14000	5300-17500-21000	10500-22000-26000
	kW	1.0-2.8-3.7	1.1-3.5-4.1	1.6-5.1-6.2	3.1-6.4-7.6
Heating(min-rated-max)Btu/h		3100-10000-13500	3500-12500-15000	5100-18000-22000	9800-25000-28000
	kW	0.9-2.6-3.8	1.0-3.7-4.4	1.5-5.3-6.4	2.9-7.3-8.2
Performance					
SEER (Average)	W/W	5.6	6.2	5.9	6.5
Energy Rate	Cooling	A+	A++	A+	A++
SCOP(Average)	W/W	4.0	4.0	4.0	4.0
Energy Rate	Heating	A+	A+	A+	A+
Tol	°C	-15	-15	-15	-15
Air Flow Volume (m3/h)	Indoor	620/540/440	630/550/430	730/480/400	1150/1050/900
Sound Power	Indoor(Hi)	57	57	57	63
Noise Level (dB(A))	Outdoor	64	64	64	66
Dimension & Weight & Piping size					
Net Dimension (mm)	Indoor (W*H*D)	800x275x188	800x275x188	940x275x205	1045x315x235
	Outdoor (W*H*D)	780x540x250	780x540x250	760x590x285	845x700x320
Net Weight (kg)	Indoor/Outdoor	7/29.5	7/29.5	9/35	12/48
Packing Dimension (mm)	Indoor (W*H*D)	865x350x265	865x350x265	1015x350x265	1135x315x395
	Outdoor (W*H*D)	910x585x335	910x585x335	887x645x355	965x755x395
Gross Weight (kg)	Indoor/Outdoor	9/31.5	9/31.5	12/37	15/50
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas	Ø9.52(3/8)	Ø9.52(3/8)	Ø12.7(1/2)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area (m2)		13-22	16-27	25-42	32-53
Stuffing Quantity (Set)	20/40/40/HQ	113/232/266	113/232/266	96/197/231	65/139/152

Luna split



Standard Features



Optional Features



Super Ionizer

Ionizer+ is a device that ionizes the air by positive and negative high voltage electrodes simultaneously. when the positive ions and negative ions neutralized it will releases tremendous amounts of energy which can sterilize the air passed through and alter the structure of the bacteria nearby.



8°C Heating(Optional)

In heating operation, the preset temperature of the air conditioner can be as low as 8°C, which keeps the room temperature steady at 8°C and prevents household from freezing when the house is vacant for a long time in severe cold weather.



Specification

Model No.	Indoor Unit Outdoor Unit	MS9AU-09HRDN1-QRC8W MOB-09HFN1-QRC8W	MS9AU-12HRDN1-QRC8W MOB-12HFN1-QRC8W	MS9AU-18HRFN1-QRC8W MOC1-18HFN1-QRC8W	MS9A-24HRDN1-QRC8W MOF-24HFN1-QRC8W
Power & Inverter type					
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		2D DC	2D DC	3D DC	2D DC
Capacity					
Cooling(min-rated-max)Btu/h		3200-9500-11500	3500-11500-13800	5200-17500-20500	1000-22000-26000
kW		0.9-2.8-3.4	1.0-3.4-4.0	1.5-5.1-6.0	2.9-6.4-7.6
Heating(min-rated-max)Btu/h		3000-9500-13000	3300-11500-14500	5000-18000-21500	9500-25000-28000
kW		0.9-2.8-3.8	1.0-3.4-4.2	1.5-5.3-6.3	2.8-7.3-8.2
Performance					
SEER (Average)	W/W	5.5	5.5	6.5	5.9
Energy Rate	Cooling	A	A	A++	A+
SCOP(Average)	W/W	3.8	3.8	3.8	3.8
Energy Rate	Heating	A	A	A	A
Tol	°C	-15	-15	-15	-15
Air Flow Volume (m3/h)	Indoor	400/330/270	500/430/380	850/780/630	1100/1050/900
Sound Power	Indoor(Hi)	55	54	56	63
Noise Level (dB(A))	Outdoor	63	63	65	68
Dimension & Weight & Piping size					
Net Dimension (mm)	Indoor (W*H*D)	710x250x190	790x265x198	920x292x223	998x322x240
	Outdoor (W*H*D)	780x540x250	780x540x250	760x590x285	845x700x320
Net Weight (kg)	Indoor/Outdoor	6.5/29.5	8/29.5	11/35	12.5/48
Packing Dimension (mm)	Indoor (W*H*D)	770x318x265	875x335x265	1015x368x295	1080x400x320
	Outdoor (W*H*D)	910x585x335	910x585x335	887x645x355	965x755x395
Gross Weight (kg)	Indoor/Outdoor	8.5/31.5	10/31.5	13.5/37	16/50
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas	Ø9.52(3/8)	Ø9.52(3/8)	Ø12.7(1/2)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area (m2)		13-22	16-27	25-42	32-53
Stuffing Quantity (Set)	20'/40'/40'HQ	121/251/285	113/232/266	89/182/215	68/138/155

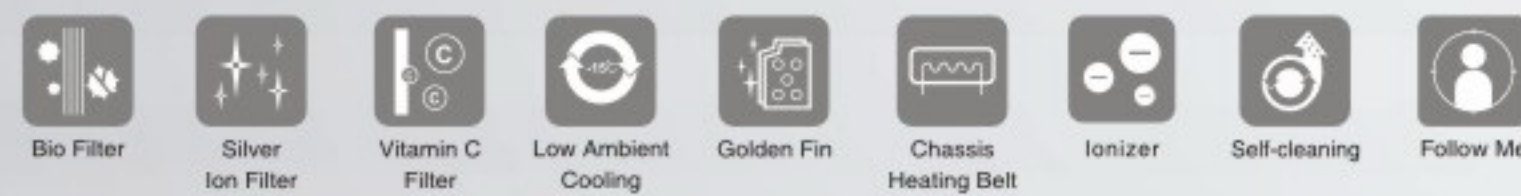
RF split



Standard Features

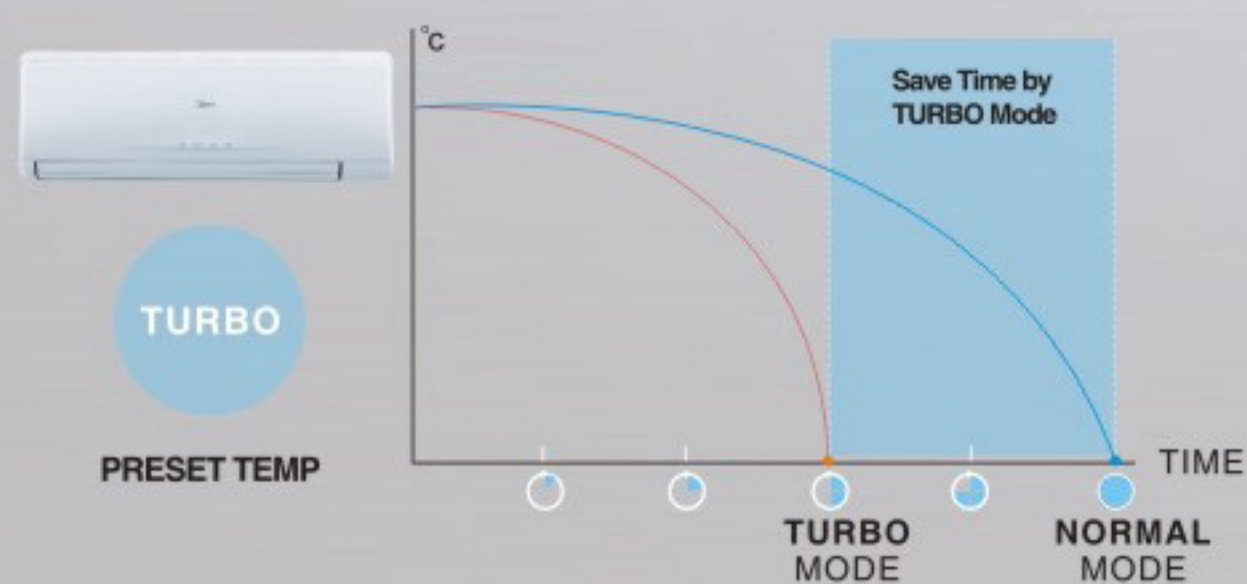


Optional Features



Turbo Mode

With this function, the air conditioner will maximize the output of cooling or heating capacity, make the room cool down or heat up rapidly, and attain the desired temperature in the shortest time.



Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first two hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



Specification

Model No.	Indoor Unit Outdoor Unit	MSFAU-09HRDN1-QRC8W(A) MOB-09HFN1-QRC8W	MSFAU-12HRFN1-QRC8W(A) MOB-12HFN1-QRC8W	MSFAU-18HRFN1-QRC8W(A) MOC1-18HFN1-QRC8W	MSFAU-24HRFN1-QRC8W(A) MOF-24HFN1-QRC8W
Power & Inverter type					
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		2D DC	2D DC	3D DC	2D DC
Capacity					
Cooling(min-rated-max)Btu/h		3200-9000-12500	3600-11000-14000	5100-17000-21500	9800-22000-26500
kW		0.9-2.6-3.7	1.0-3.2-4.1	1.5-5.0-6.3	2.9-6.4-7.8
Heating(min-rated-max)Btu/h		3300-9000-13000	3600-11000-15000	5100-18000-22200	9800-23000-27200
kW		1.0-2.6-3.8	1.0-3.2-4.4	1.5-5.3-6.5	2.9-6.7-8.0
Performance					
SEER (Average)	W/W	5.6	5.6	6.5	5.8
Energy Rate	Cooling	A+	A+	A++	A+
SCOP(Average)	W/W	3.8	3.8	3.8	3.8
Energy Rate	Heating	A	A	A	A
Tol	°C	-15	-15	-15	-15
Air Flow Volume (m3/h)	Indoor	620/540/440	630/550/430	730/480/400	1150/1050/900
Sound Power	Indoor(Hi)	57	57	57	63
Noise Level (dB(A))	Outdoor	63	63	63	65
Dimension & Weight & Piping size					
Net Dimension (mm)	Indoor (W*H*D)	715x250x188	800x275x188	940x275 x205	1045x315x235
	Outdoor (W*H*D)	780x540x250	780x540x250	760x590x285	845x700x320
Net Weight (kg)	Indoor/Outdoor	6.5/29.5	7/29.5	9/35	12/48
Packing Dimension (mm)	Indoor (W*H*D)	775x324x260	865x350x265	1015x350x265	1135x315x395
	Outdoor (W*H*D)	910x585x335	910x585x335	887x645x355	965x755x395
Gross Weight (kg)	Indoor/Outdoor	8.5/31.5	9/31.5	12/37	15/50
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)
	Gas	Ø9.52(3/8)	Ø9.52(3/8)	Ø12.7(1/2)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area (m2)		13-22	16-27	25-42	32-53
Stuffing Quantity (Set)	20'/40'/40'HQ	118/242/276	113/232/266	96/197/231	65/139/152

Standard Features

Comfort

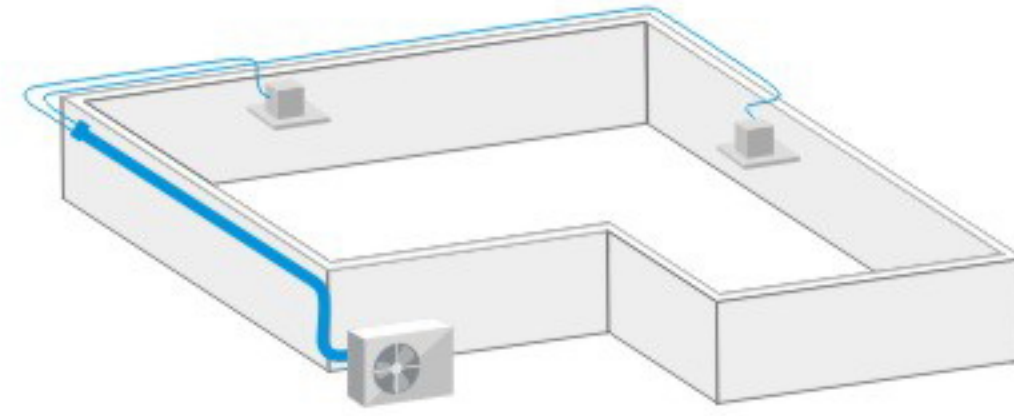
Fresh Air Intake

Fresh Air Intake function bring you healthy and comfortable air feeling



Twin Combination(Optional)

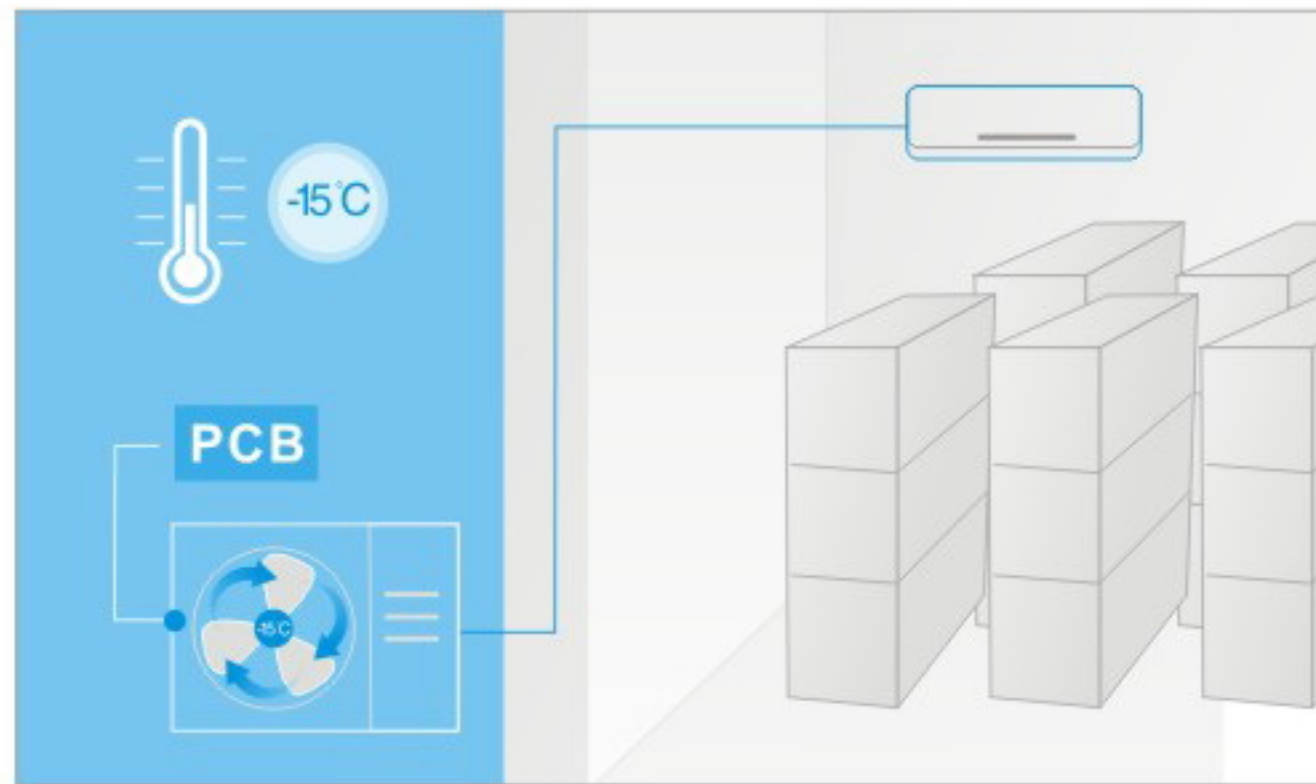
The units can be installed as Twin systems:one outdoor unit can be connected with two indoor units. The indoor units can be combined in any of the different available ratings.



Reliable

Low Ambient Cooling

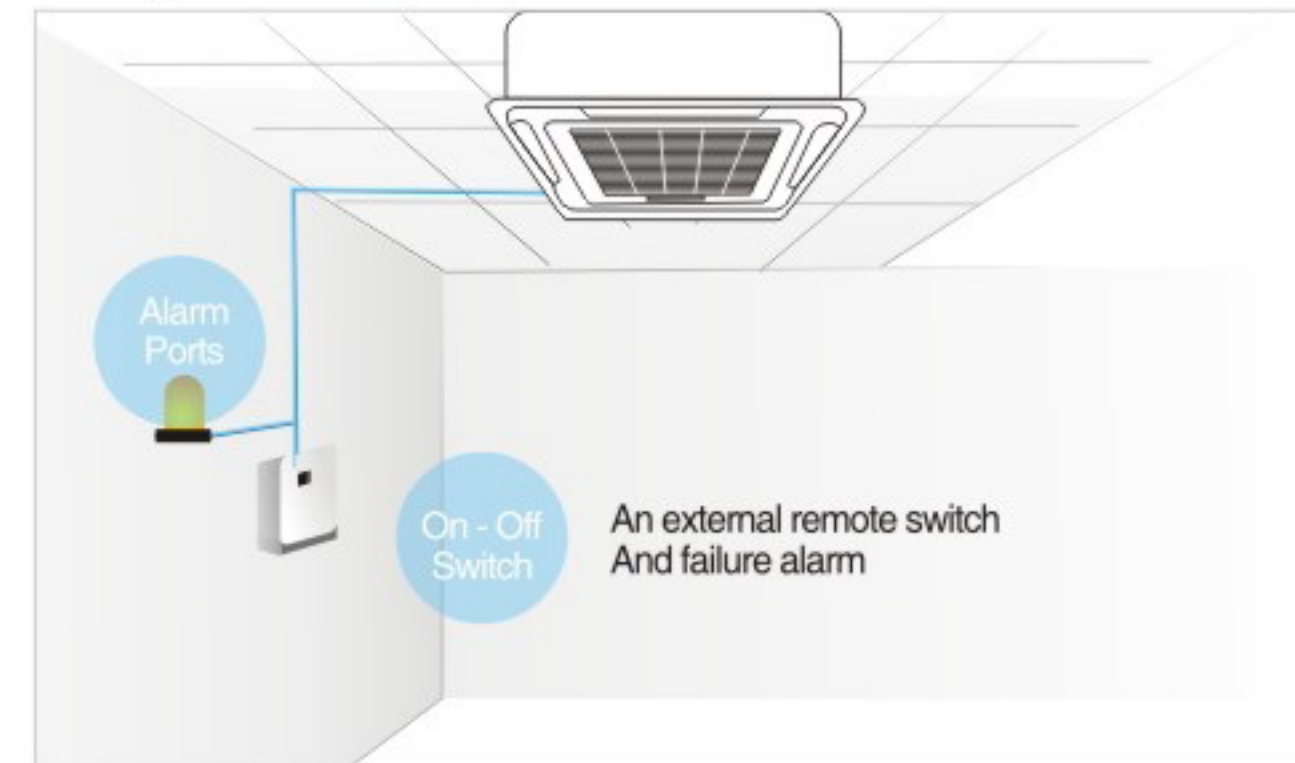
With built-in low ambient kit or special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature is down to -15°C.



Convenience

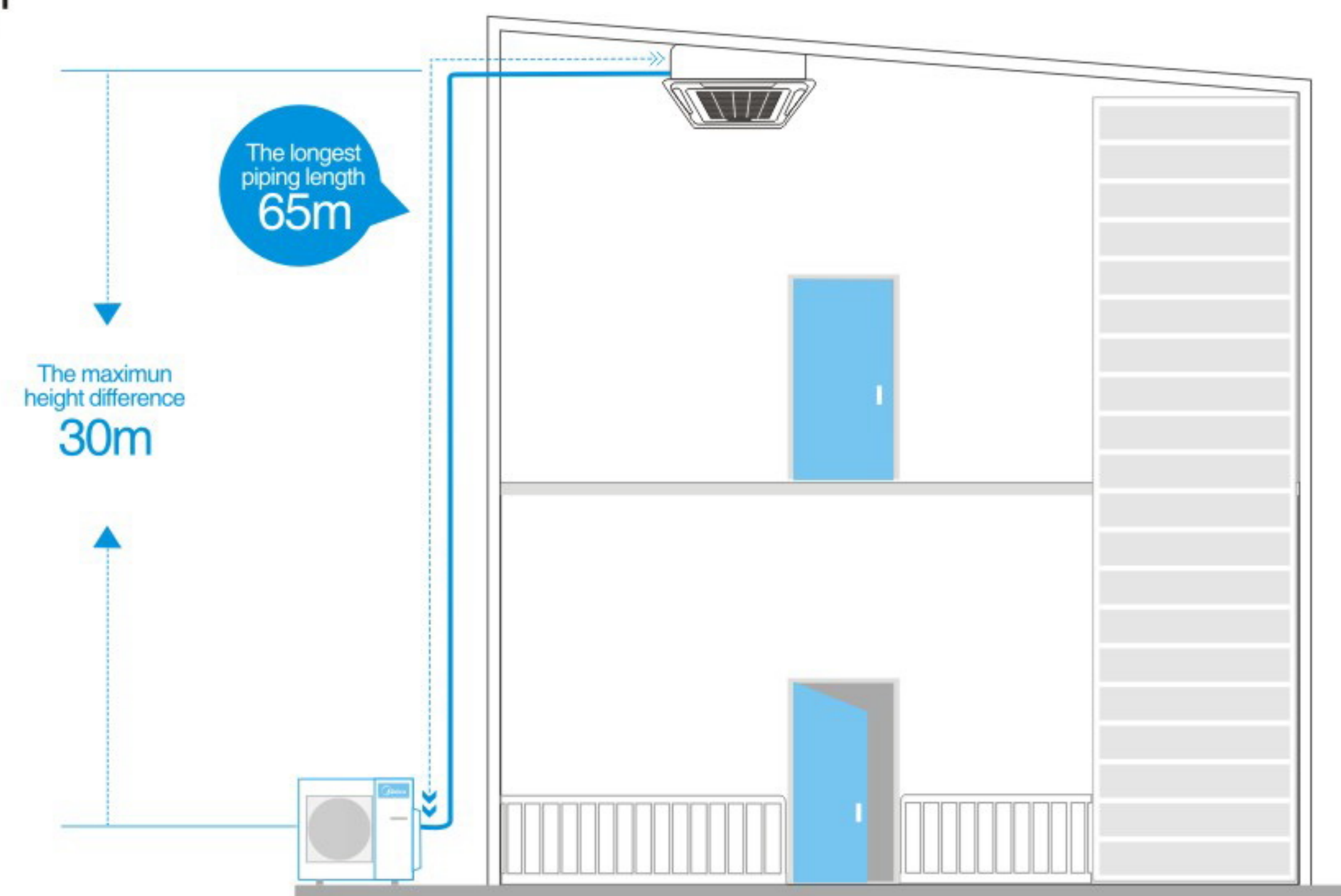
Reserved ON-OFF and Alarm Ports(Optional)

On-Off Switch: With the reserved ports, a remote switch can be easily connected to realize remote control.
Alarm: The built-in PCB can output alarm signal, which makes setting up an external alarm light or vibration gauge possible.



Convenience

Flexible Piping Design



Universal Outdoor Units

Specification

Model No.	MOU-12HFN1-QRC8	MOU-18HFN1-QRC8	MOU-24HFN1-QRC8	MOU-30HFN1-QRC8	
Power Supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Air Flow Volume	m ³ /h	2200	2500	3500	3800
Sound Power Noise Level	dB(A)	61	65	69	70
Net Dimension (mm)	W*H*D	761x279x593	842x695x324	895x862x313	895x862x313
Net Weight (kg)		35	46	59	59
Packing Dimension (mm)	W*H*D	887x645x355	965x755x395	1043x915x395	1043x915x395
Gross Weight (kg)		37	50	63	63
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas	Ø9.52(3/8)	Ø12.7(1/2)	Ø15.9(5/8)	Ø15.9(5/8)
Max. pipe length	m	20	30	50	50
Max. height difference	m	8	20	25	25
Stuffing Quantity (Set)	20/40/40HQ	123/258/342	100/214/216	62/128/128	62/128/128

Specification

Model No.	MOU-36HFN1-QRC8	MOU-36HFN1-RRC8	MOU-48HDN1-Q	MOU-48HDN1-R	MOU-60HDN1-R	
Power Supply	V~, Hz, Ph	220-240, 50, 1	380-415, 50, 3	220-240, 50, 1	380-415, 50, 3	380-415, 50, 3
Air Flow Volume	m ³ /h	7200	7200	7200	7200	7500
Sound Power Noise Level	dB(A)	65	64	62	63	64
Net Dimension (mm)	W*H*D	938x1369x392	938x1369x392	938x392x1369	938x392x1369	938x392x1369
Net Weight (kg)		100	102.5	99	102	107
Packing Dimension (mm)	W*H*D	1095x1505x495	1095x1505x495	1095x495x1505	1095x495x1505	1095x495x1505
Gross Weight (kg)		114	116	112	115	120
Piping Size (mm(inch))	Liquid	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)
Max. pipe length	m	65	65	65	65	65
Max. height difference	m	30	30	30	30	30
Stuffing Quantity (Set)	20/40/40HQ	34/71/83	34/71/83	34/71/83	34/71/83	34/71/83



Compact Round Flow Cassette

Standard Features



Optional Features



360° Air Outlet Panel

360° air outlet makes equal, fast and wide-range cooling.



Fresh Air Intake

Fresh Air Intake function bring you fresh and comfortable air feeling.



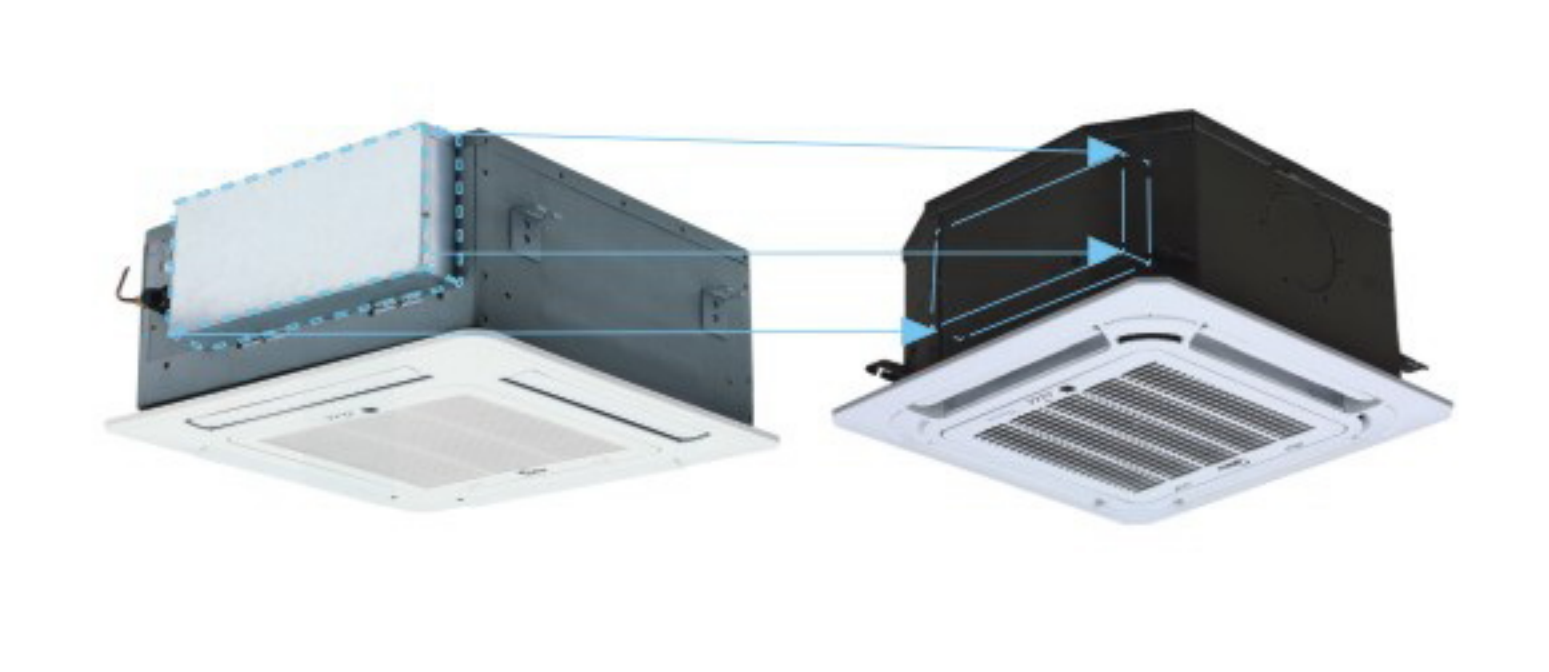
Compact Design

The body size of this unit is 570mmx570mmx260mm, and panel size is 647mmx647mmx50mm. It can be installed in one standard ceiling tile (600Wx600D), which can save installation time and make installation easier.



E-box Inside

The E-box is simply and safely built inside the indoor unit. This integrated design provides a more compact body size and ease of installation. And the maintenance of the E-box is simple, by opening the air-return-grille.



Specification

Model No.	Indoor Unit Outdoor Unit	MCA2U-12HRFN1-QRC8 MOU-12HFN1-QRC8	MCA2-18HRFN1-QRC8 MOU-18HFN1-QRC8
Power & Inverter type			
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC
Capacity			
Cooling (min-rated-max)	Btu/h	4800-12000-14000	5800-18000-20000
	kW	1.4-3.5-4.1	17.0-5.3-5.9
Heating (min-rated-max)	Btu/h	4800-12000-14000	5800-18000-20000
	kW	1.4-3.5-4.1	17.0-5.3-5.9
SEER (Average)	W/W	5.6	5.6
Performance			
Energy Rate	Cooling	A+	A+
SCOP(Average)	W/W	3.8	3.8
Energy Rate	Heating	A	A
Tol	C	-15	-15
Air Flow Volume	m3/h	800/710/560	800/710/560
Sound Power Noise Level dB(A)		54	59
Dimension & Weight & Piping size			
Net Dimension (mm)	Body (WxHxD)	570x570x260	570x570x260
	Panel (WxHxD)	647x647x50	647x647x50
Net Weight (kg)	Body	16	18
	Panel	2.5	2.5
Packing Dimension (mm)	Body (WxHxD)	655x655x290	655x655x290
	Panel (WxHxD)	715x715x123	715x715x123
Gross Weight (kg)	Body	19	21
	Panel	4.5	4.5
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)
	Gas	Ø9.52(3/8)	Ø12.7(1/2)
Applicable area & Stuffing Quantity			
Applicable Area	m2	13-21	21-35
Stuffing Quantity (Set)		71/148/174	58/122/143

Super Slim Round Flow Cassette



Standard Features

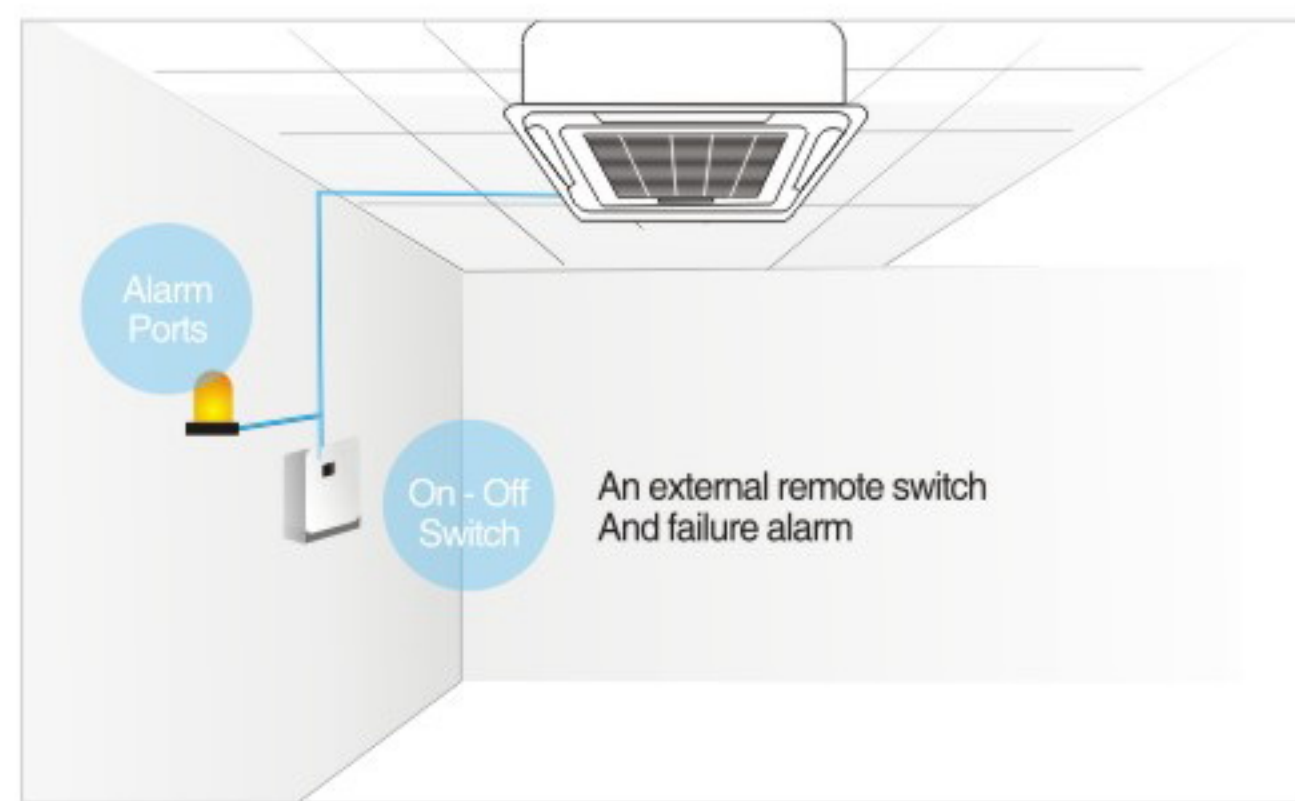


Optional Features

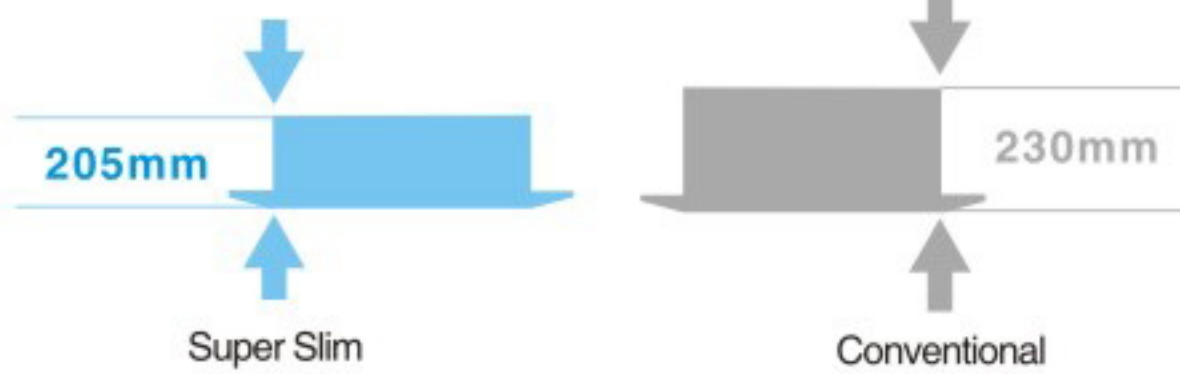


Reserved ON-OFF and Alarm Ports(Optional)

ON-OFF Switch: With the reserved ports, a remote switch can be easily connected to realize remote control.
 Alarm: The built-in PCB can output alarm signal, which makes setting up an external alarm light or vibration gauge possible.

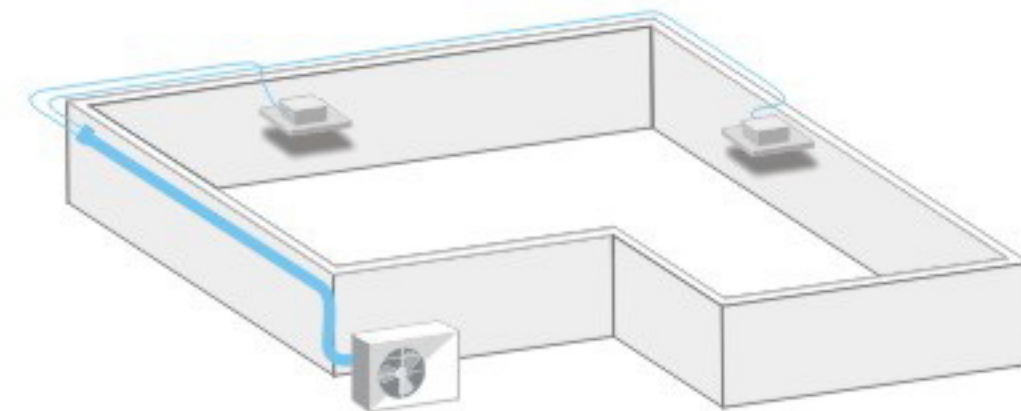


Super Slim Design



Twin Combination(Optional)

The units can be installed as twin systems: one outdoor unit can be connected with two same indoor units. The indoor units can be combined in any of the different available ratings.



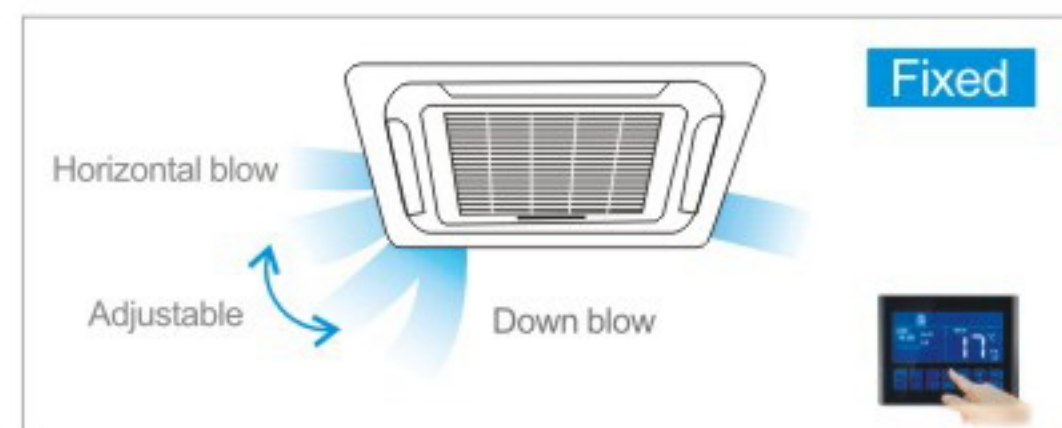
Lifting Easy-Clean(Optional) & 360° Air Flow Panel

The removable lifting panel makes the clean process much easier. And with the 360° flow system, distributing comfort to every corner of the room.



Touch Screen Wired Controller and Independent Vane Control(Optional)

Luxury touch screen wired controller with failure indication function provided. A more user friendly interface is possible. If the airflow direction needs to be changed as a result of an altered room layout or due to the mode selected, the air direction of each vane can be set independently using the wired controller.



Specification

Model No.	Indoor Unit Outdoor Unit	MCD-18HRFN1-QRC8 MOU-18HFN1-QRC8	MCD-24HRFN1-QRC8 MOU-24HFN1-QRC8	MCD-30HRFN1-QRC8 MOU-30HFN1-QRC8	MCD-36HRFN1-QRC8 MOU-36HFN1-QRC8
Power & Inverter type					
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC	3D DC	3D DC
Capacity					
Cooling (min-rated-max)	Btu/h	5400-18000-20000	5400-24000-27000	8100-30000-36000	9800-36000-42000
	kW	1.6-5.3-5.9	1.6-7.0-7.9	2.4-8.8-10.5	2.9-10.5-12.3
Heating (min-rated-max)	Btu/h	5400-18000-20000	5800-26000-29000	7000-28000-35000	13000-40000-45000
	kW	1.6-5.3-5.9	1.7-7.6-8.5	2.1-8.3-10.2	3.8-11.7-13.2
SEER (Average)	W/W	5.1	6.5	6.1	5.6
Performance					
Energy Rate	Cooling	A	A++	A++	A+
SCOP(Average)	W/W	3.8	3.8	3.8	3.8
Energy Rate	Heating	A	A	A	A
Tol	C	-15	-15	-15	-15
Air Flow Volume	m3/h	1250/1050/900	1580/1200/1000	1780/1460/1250	2020/1800/1500
Sound Power Noise Level	dB(A)	59	62	63	63
Net Dimension (mm)	Body (WxHxD)	840x840x205	840x840x245	840x840x245	840x840x245
	Panel (WxHxD)	950x950x55	950x950x55	950x950x55	950x950x55
Dimension & Weight & Piping size					
Net Weight (kg)	Body	22	24	25	26.5
	Panel	5	5	5	5
Packing Dimension (mm)	Body (WxHxD)	900x900x225	900x900x265	900x900x265	900x900x265
	Panel (WxHxD)	1035x1035x90	1035x1035x90	1035x1035x90	1035x1035x90
Gross Weight (kg)	Body	25	28	29	30.5
	Panel	8	8	8	8
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas	Ø12.7(1/2)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area	m2	21-35	28-47	36-60	42-70
Stuffing Quantity (Set)	20/40/40/HQ	58/120/141	42/88/103	33/38/80	33/68/80

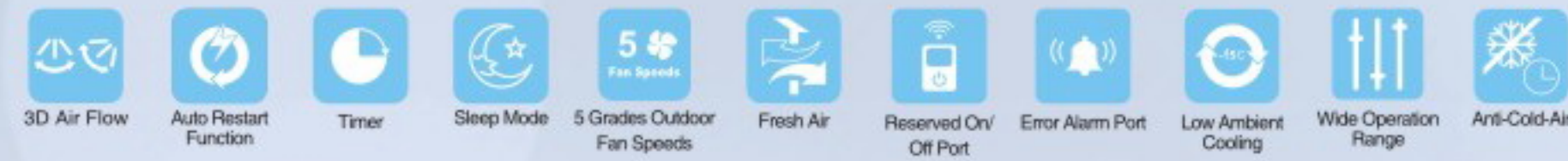
Specification

Model No.	Indoor Unit Outdoor Unit	MCD-36HRFN1-QRC8 MOU-36HFN1-RRC8	MCD-48HRFN1-QC2 MOU-48HDN1-Q	MCD-48HRFN1-QC2 MOU-48HDN1-R	MCD-60HRFN1-Q MOU-60HDN1-R
Power & Inverter type					
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	2D DC	2D DC	2D DC
Capacity					
Cooling (min-rated-max)	Btu/h	9800-36000-42000	12000-43000-50000	12000-43000-50000	20000-55000-58000
	kW	2.9-10.5-12.3	3.5-12.6-14.7	3.5-12.6-14.7	5.9-14.9-17.0
Heating (min-rated-max)	Btu/h	13000-40000-45000	15000-44000-52000	15000-44000-52000	18000-65000-68000
	kW	3.8-11.7-13.2	4.4-12.9-15.2	4.4-12.9-15.2	5.3-18.2-20.0
SEER (Average)	W/W	6	3.22	3.22	3.23
Performance					
Energy Rate	Cooling	A+	A	A	A
SCOP(Average)	W/W	3.8	3.61	3.61	3.62
Energy Rate	Heating	A	A	A	A
Tol	C	-15	-15	-15	-15
Air Flow Volume	m3/h	2020/1800/1500	2200/1800/1600	2200/1800/1600	2200/1800/1600
Sound Power Noise Level	dB(A)	65	58	58	56
Net Dimension (mm)	Body (WxHxD)	840x840x245	840x840x287	840x840x287	840x840x287
	Panel (WxHxD)	950x950x55	950x950x55	950x950x55	950x950x55
Dimension & Weight & Piping size					
Net Weight (kg)	Body	26.5	29	29	31
	Panel	5	5	5	5
Packing Dimension (mm)	Body (WxHxD)	900x900x265	900x900x292	900x900x292	900x900x292
	Panel (WxHxD)	1035x1035x90	1035x1035x90	1035x1035x90	1035x1035x90
Gross Weight (kg)	Body	30.5	33	33	34
	Panel	8	8	8	8
Piping Size (mm(inch))	Liquid	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area	m2	42-70	56-93	56-93	64-107
Stuffing Quantity (Set)	20/40/40/HQ	33/68/80	25/53/62	25/53/62	25/52/61

Ceiling & Floor



Standard Features



Optional Features



Easy Maintenance

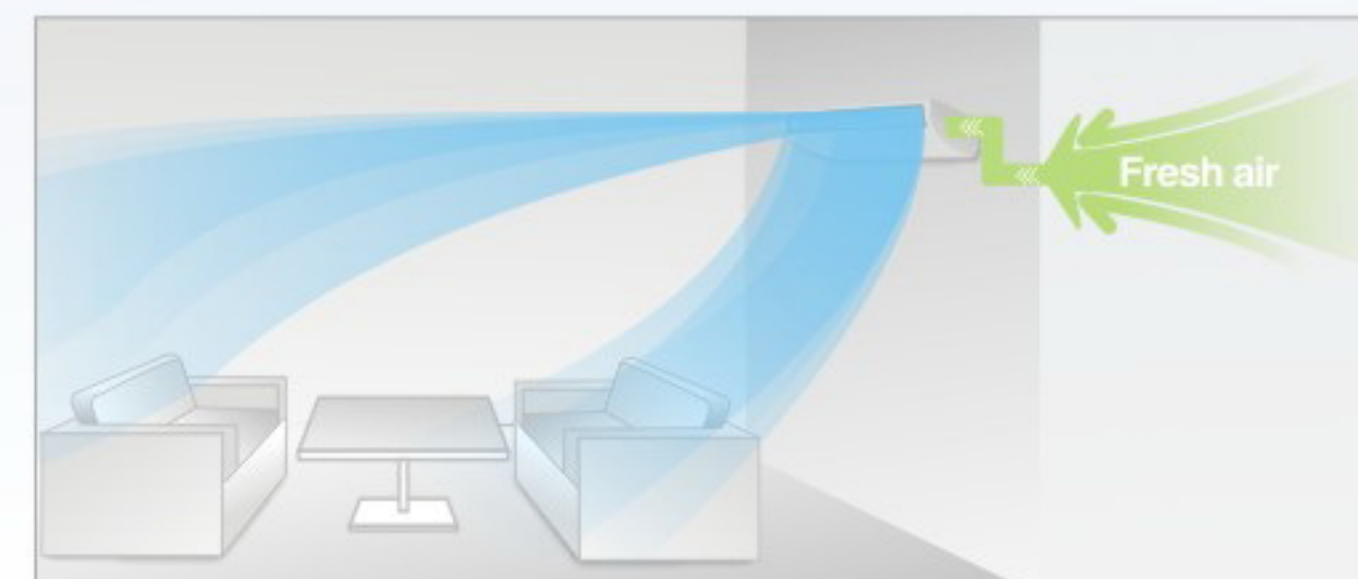
More than 60% parts and assemblies (such as fan wheel, plastic cases, metal parts and etc.) are universal for 3 different bodies, which makes the production and maintenance much easier.



Universal parts for Whole Series

Fresh Air Intake & 3D Air Flow

Fresh Air Intake function bring you fresh and comfortable air feeling. The unit has auto horizontal swing and auto vertical swing function, which supplies more even and comfortable air flow.



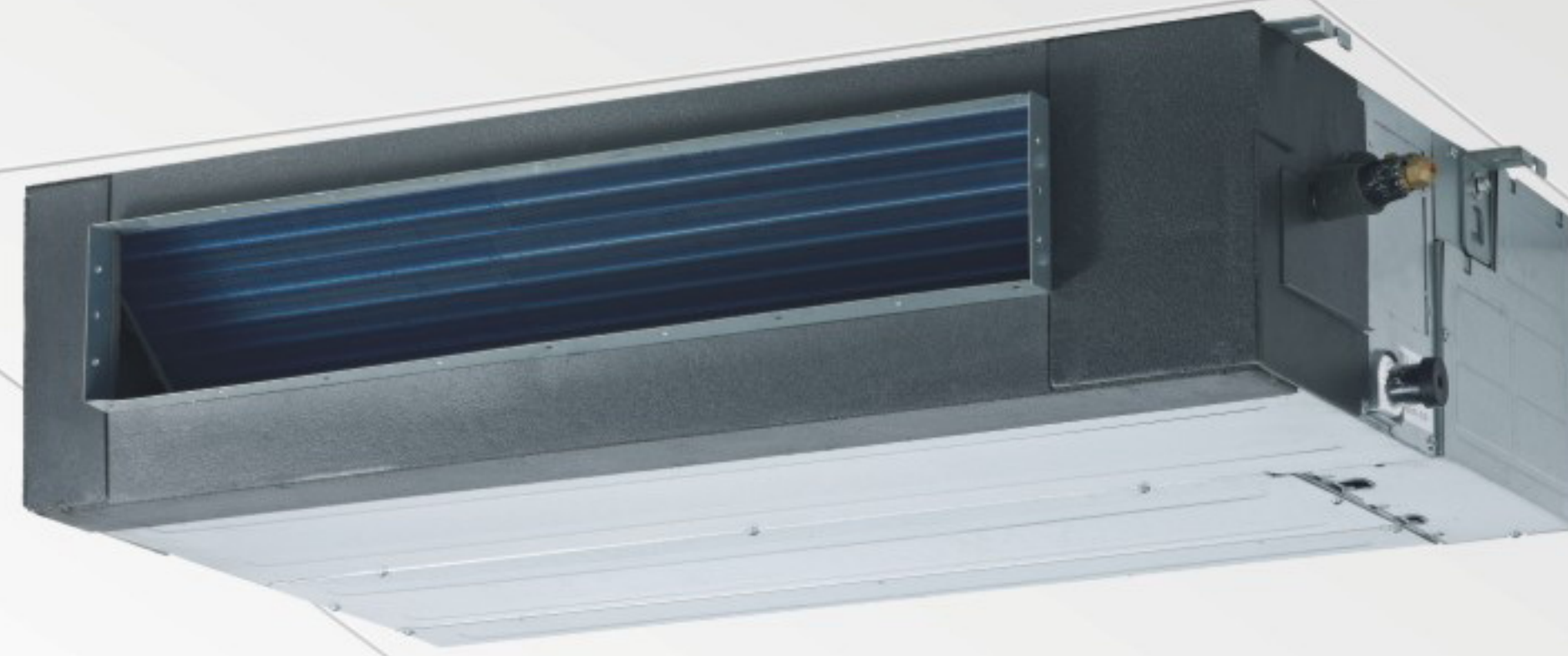
Specification

Model No.	Indoor Unit Outdoor Unit	MUE-18HRFN1-QRC8 MOU-18HFN1-QRC8	MUE-24HRFN1-QRC8 MOU-24HFN1-QRC8	MUE-30HRFN1-QRC8 MOU-30HFN1-QRC8	MUE-36HRFN1-QRC8(A) MOU-36HFN1-QRC8
Power & Inverter type					
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC	3D DC	3D DC
Capacity					
Cooling (min-rated-max)	Btu/h	5500-18000-20000	5500-24000-27000	8100-30000-36000	10000-36000-45000
	kW	1.6-5.3-5.9	1.6-7.0-7.9	2.4-8.8-10.5	2.9-10.5-13.2
Heating (min-rated-max)	Btu/h	5500-18000-20000	6000-26000-30000	8000-29000-35000	13000-40000-48000
	kW	1.6-5.3-5.9	1.8-7.6-8.8	2.3-8.6-10.3	3.8-11.7-14.0
Performance					
SEER (Average)	W/W	6.2	6.6	6.3	6
Energy Rate	Cooling	A++	A++	A++	A+
	W/W	3.8	3.8	3.8	3.8
Energy Rate	Heating	A	A	A	A
	°C	-15	-15	-15	-15
Air Flow Volume	m ³ /h	900/750/600	1400/1250/1100	2200/1850/1500	2200/1850/1500
Sound Power Noise Level	dB(A)	60	63	64	63
Dimension & Weight & Piping size					
Net Dimension (mm)	WxHxD	1068x675x235	1068x675x235	1285x675x235	1650x675x235
Net Weight (kg)	kg	25	25	30	40
Packing Dimension(mm)	WxHxD	1145x755x313	1145x755x313	1360x755x313	1725x755x313
Gross Weight (kg)	kg	31.5	30	35	46
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas	Ø12.7(1/2)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area	m ²	21-35	28-47	36-60	42-70
Stuffing Quantity (Set)	20'/40'/40'HQ	50/100/119	40/86/92	32/67/79	27/57/67

Specification

Model No.	Indoor Unit Outdoor Unit	MUE-36HRFN1-QRC8(A) MOU-36HFN1-RRC8	MUE-48HRFN1-QC2 MOU-48HDN1-Q	MUE-48HRFN1-QC2 MOU-48HDN1-R	MUE-60HRFN1-Q MOU-60HDN1-R
Power & Inverter type					
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	2D DC	2D DC	2D DC
Capacity					
Cooling (min-rated-max)	Btu/h	10000-36000-45000	12000-48000-53000	12000-48000-53000	15000-55000-57000
	kW	2.9-10.5-13.2	3.5-14.0-15.5	3.5-14.0-15.5	4.4-15.5-16.7
Heating (min-rated-max)	Btu/h	13000-40000-48000	14000-50000-58000	14000-50000-58000	18000-62000-64000
	kW	3.8-11.7-14.0	4.1-14.7-17.0	4.1-14.7-17.0	5.3-18.2-18.8
Performance					
SEER (Average)	W/W	6.5	3.25	3.24	3.3
Energy Rate	Cooling	A++	A	A	A
	W/W	3.8	3.65	3.65	3.61
Energy Rate	Heating	A	A	A	A
	°C	-15	-15	-15	-15
Air Flow Volume	m ³ /h	2200/1850/1500	2300/1900/1700	2300/1900/1700	2300/1900/1700
Sound Power Noise Level	dB(A)	65	57	57	56
Dimension & Weight & Piping size					
Net Dimension (mm)	WxHxD	1650x675x235	1650x675x235	1650x675x235	1650x675x235
Net Weight (kg)	kg	40	40	40	40
Packing Dimension(mm)	WxHxD	1725x755x313	1725x755x313	1725x755x313	1725x755x313
Gross Weight (kg)	kg	46	46	46	60
Piping Size (mm(inch))	Liquid	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area	m ²	42-70	56-93	56-93	64-107
Stuffing Quantity (Set)	20'/40'/40'HQ	27/57/67	27/57/67	27/57/67	27/57/67

Duct



Standard Features

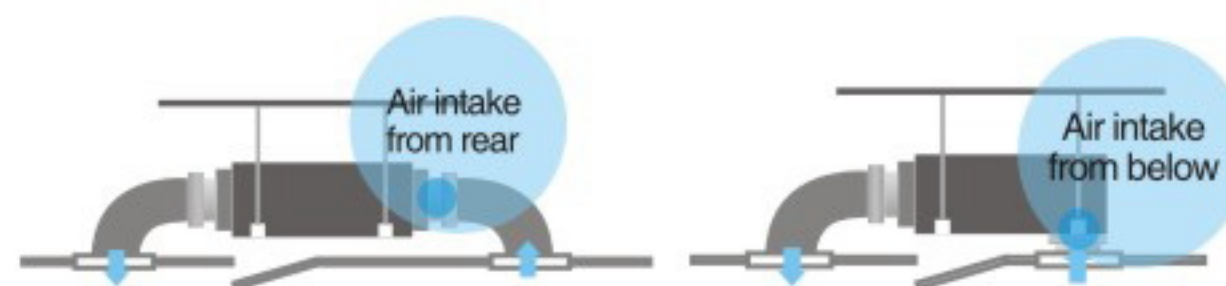


Optional Features



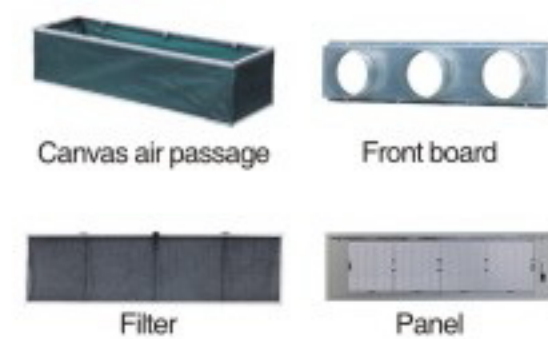
Flexible Air Intake Ways

Air inlet from back standard and from bottom optional. The size of the plate from bottom and flange from back is the same, it's easy for installer to change the air inlet from back to bottom.



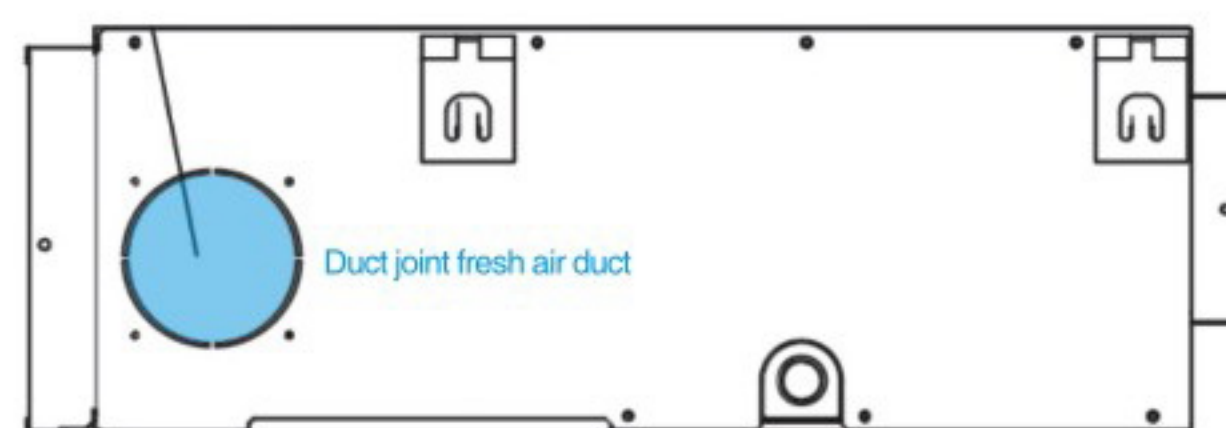
Optional Accessories

Optional accessories are available to meet the different needs of customers and enhance the performance.



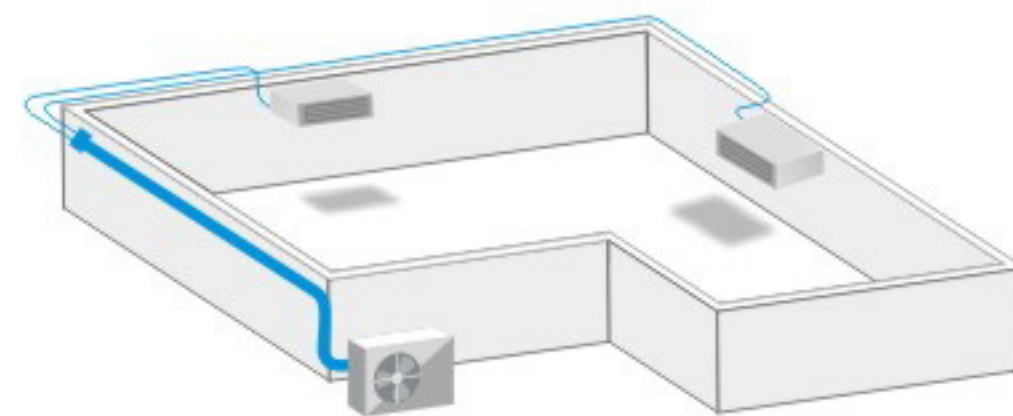
Fresh Air

Fresh air hole as standard, it's easy to connect with air.



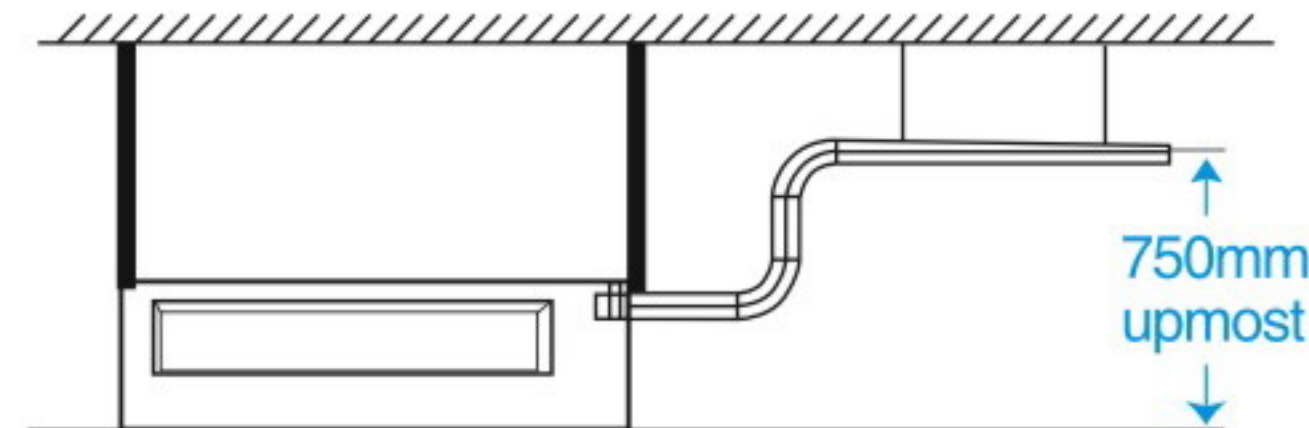
Twin Combination

The units can be installed as twin systems: one outdoor unit can be connected with two same indoor units. The indoor units can be combined in any of the different available ratings.



Built-in Drain Pump (Optional)

The drain pump can lift the condensing water up to 750mm upmost.



Specification

Model No.	Indoor Unit Outdoor Unit	MTBU-12HWFN1-QRC8 MOU-12HFN1-QRC8	MTB-18HWFN1-QRC8(A) MOU-18HFN1-QRC8	MTB-24HWFN1-QRC8 MOU-24HFN1-QRC8	MTB-30HWFN1-QRC8 MOU-30HFN1-QRC8
Power & Inverter type					
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC	3D DC	3D DC
Capacity					
Cooling (min-rated-max)	Btu/h	4800-12000-13000	7200-18000-22000	9500-24000-29000	12000-30000-37000
	kW	1.4-3.5-3.8	2.1-5.3-6.4	2.8-7.0-8.5	3.5-8.8-10.8
Heating (min-rated-max)	Btu/h	6800-14000-16000	7200-18000-22000	11000-26000-33000	12000-30000-37000
	kW	2.0-4.1-4.7	2.1-5.3-6.4	3.2-7.6-9.7	3.5-8.8-10.8
Performance					
SEER (Average)	W/W	5.5	6.4	6.7	5.9
Energy Rate	Cooling	A	A++	A++	A+
SCOP(Average)	W/W	3.8	3.8	3.8	3.8
Energy Rate	Heating	A	A	A	A
Tol	°C	-15	-15	-15	-15
Air Flow Volume	m ³ /h	800/610/520	1400/1100/1100	1700/1400/1250	2000/1750/1450
Static Pressure	Pa	20	70	70	80
Sound Power Noise Level	dB(A)	55	59	63	65
Dimension & Weight & Piping size					
Net Dimension (mm)	WxHxD	700x635x210	920x635x270	920x625x270	1140/775/270
Net Weight (kg)		19.5	28	28	35
Packing Dimension(mm)	WxHxD	915x655x290	1135x655x350	1135x655x350	1355x795x350
Gross Weight (kg)		24.5	31.5	31.5	42
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)	Ø9.52(3/8)	Ø9.52(3/8)
	Gas	Ø9.52(3/8)	Ø12.7(1/2)	Ø15.9(5/8)	Ø15.9(5/8)
Applicable area & Stuffing Quantity					
Applicable Area	m ²	13-21	21-35	28-47	36-60
Stuffing Quantity (Set)	20'/40'/40'HQ	71/148/170	55/115/132	39/82/95	31/65/71

Specification

Model No.	Indoor Unit Outdoor Unit	MTB-36HWFN1-QRC8(A) MOU-36HFN1-QRC8	MTB-36HWFN1-QRC8(A) MOU-36HFN1-RRR8	MTB-48HWFN1-QC6 MOU-48HDN1-Q	MTB-48HWFN1-QC6 MOU-48HDN1-R	MTB-60HWFN1-Q MOU-60HDN1-R
Power & Inverter type						
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC	2D DC	2D DC	2D DC
Capacity						
Cooling (min-rated-max)	Btu/h	9800-36000-42000	9800-36000-42000	12000-48000-21000	12000-48000-21000	19000-55000-58000
	kW	2.9-10.5-12.3	2.9-10.5-12.3	3.5-14.0-15.0	3.5-14.0-15.0	5.6-16.0-17.0
Heating (min-rated-max)	Btu/h	17000-40000-51000	17000-40000-51000	20000-50000-60000	20000-50000-60000	20000-65000-68000
	kW	5.0-11.7-14.9	5.0-11.7-14.9	5.9-14.7-17.6	5.9-14.7-17.6	5.9-19.0-20.0
Performance						
SEER (Average)	W/W	6.0	6.1	3.21	A	3.22
Energy Rate	Cooling	A+	A++	A	3.81	A
SCOP(Average)	W/W	3.8	3.8	3.82	A	3.62
Energy Rate	Heating	A	A	A	-	A
Tol	°C	-15	-15	-	3010/2410/1940	-
Air Flow Volume	m ³ /h	2270/1890/1650	2270/1890/1650	3010/2410/1940	100	3010/2410/1940
Static Pressure	Pa	80	80	100	45	100
Sound Power Noise Level	dB(A)	62	61	45		45
Dimension & Weight & Piping size						
Net Dimension (mm)	WxHxD	1200x865x300	1200x865x300	1200x865x300	1200x865x300	1200x865x300
Net Weight (kg)		44	44	44	1385x920x373	44
Packing Dimension(mm)	WxHxD	1385x920x373	1385x920x373	1380x920x373	53	1385x920x373
Gross Weight (kg)		52.5	52.5	53	Ø9.52(3/8)	53
Piping Size(mm(inch))	Liquid	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø15.9(5/8)	Ø9.52(3/8)
	Gas	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)		Ø15.9(5/8)
Applicable area & Stuffing Quantity						
Applicable Area	m ²	42-70	42-70	42-70	22/46/54	42-70
Stuffing Quantity (Set)	20'/40'/40'HQ	27/59/68	27/59/68	22/46/54		22/46/54

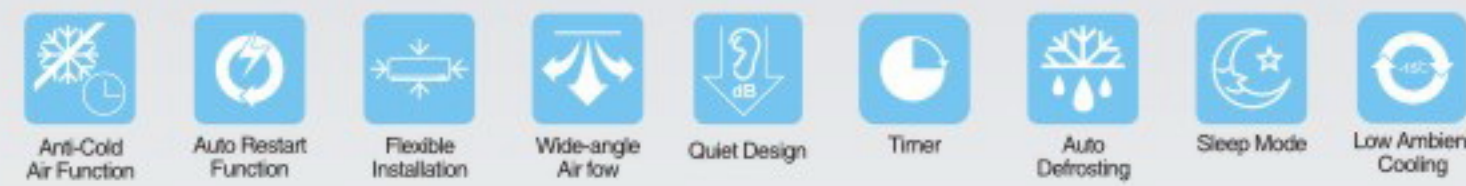
Console



2 Optional Air Outlet Ways:
Both up and down air-outlet or up
air-outlet only.

4 Directions Air-inlet

Standard Features



Optional Features



Specification

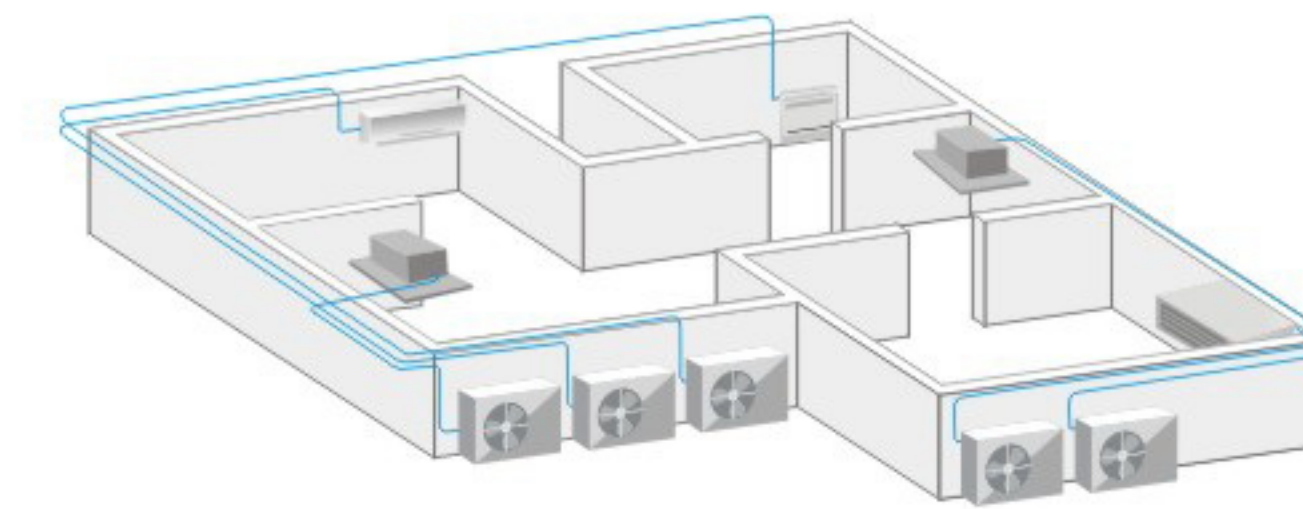
Model No.	Indoor Unit Outdoor Unit	MFAU-12HRFN1-QRC8 MOU-12HFN1-QRC8	MFAI-18HRFN1-QRC8 MOU-18HFN1-QRC8
Power & Inverter type			
Power supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1
Inverter Type		3D DC	3D DC
Capacity			
Cooling (min-rated-max)	Btu/h	4800-12000-14000	5800-16000-20000
	kW	1.4-3.5-4.1	1.7-4.7-5.9
Heating (min-rated-max)	Btu/h	4800-12000-14000	4800-17000-18000
	kW	1.4-3.5-4.1	1.4-5.0-5.3
SEER (Average)	W/W	6.2	5.6
Performance			
Energy Rate	Cooling	A++	A
SCOP(Average)	W/W	3.8	3.8
Energy Rate	Heating	A	A
Tol	C	-15	-15
Air Flow Volume	m ³ /h	(700)/640/560/440/350	(700)/640/560/440/350
Sound Power Noise Level	dB(A)	57	59
Net Dimension (mm)	(W×H×D)	700×210×600	700×210×600
Dimension & Weight & Piping size			
Net Weight (kg)	Body	15	15
Packing Dimension (mm)	(W×H×D)	810×305×710	810×305×710
Gross Weight (kg)		20	20
Piping Size (mm(inch))	Liquid	Ø6.35(1/4)	Ø6.35(1/4)
	Gas	Ø9.52(3/8)	Ø12.7(1/2)
Applicable area & Stuffing Quantity			
Applicable Area	m ²	13-21	21-35
Stuffing Quantity (Set)		73/153/179	60/125/146

Free Match

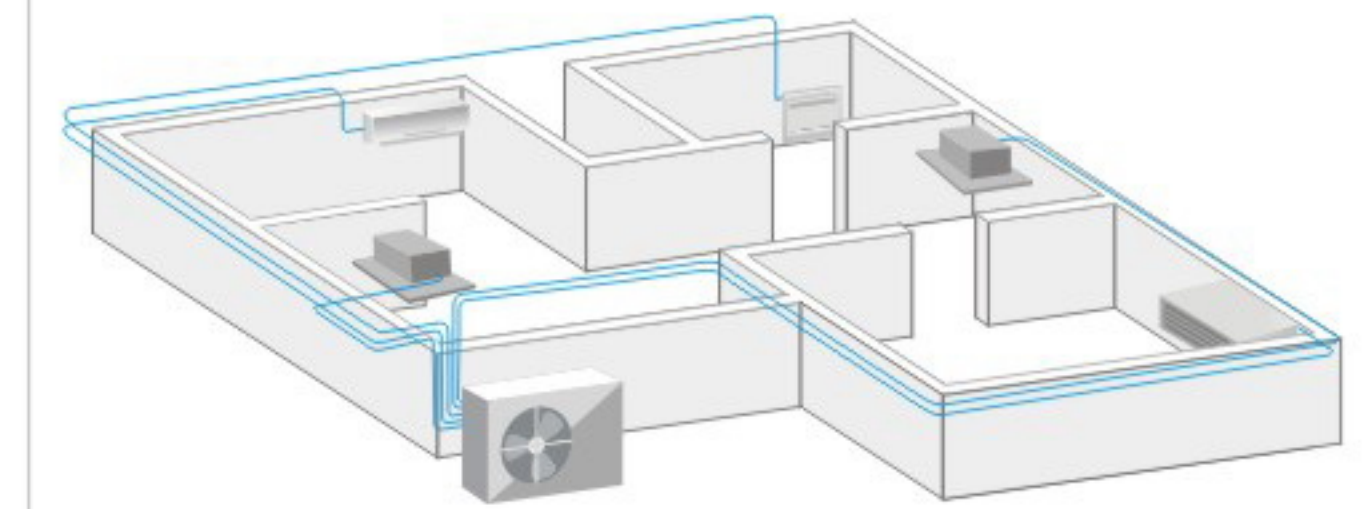
Standard Features

Space-saving Installation

Up to five indoor units can be connected to a single outdoor unit, reducing the number of outdoor units required. All indoor units can be individually controlled and do not need to be installed even at the same time.



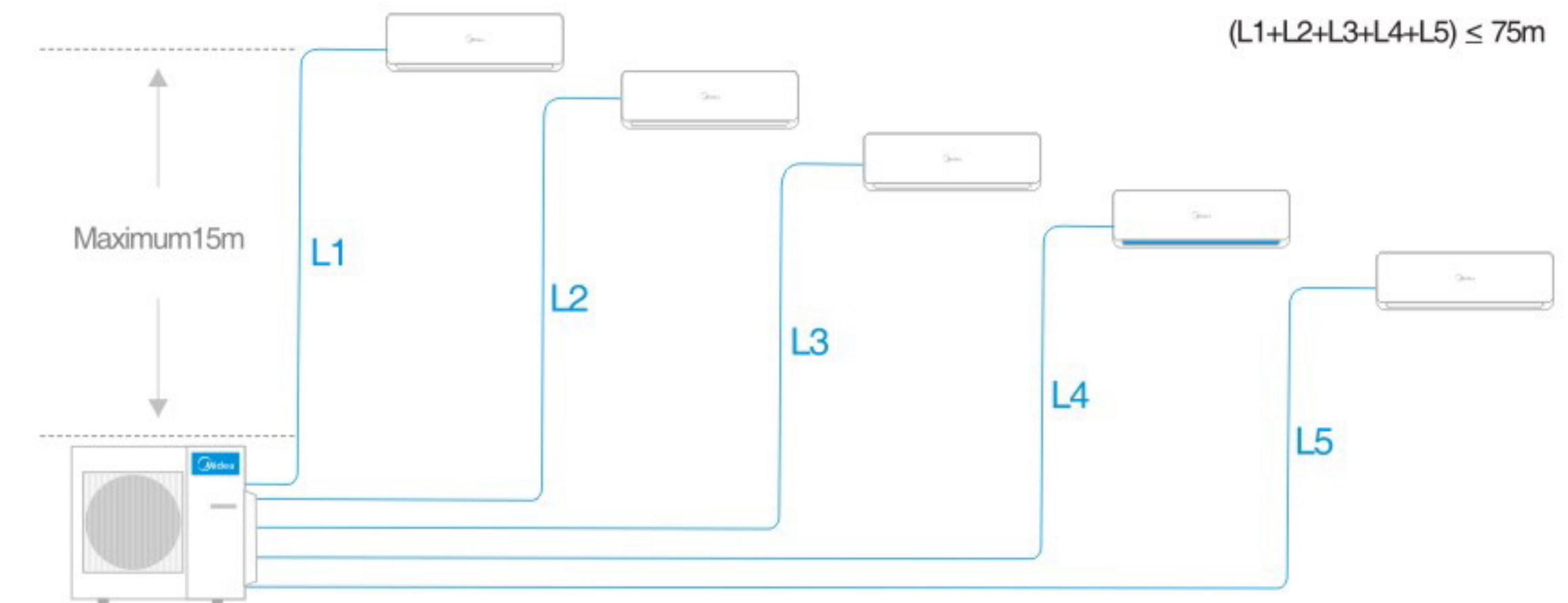
5 outdoor units



1 outdoor unit

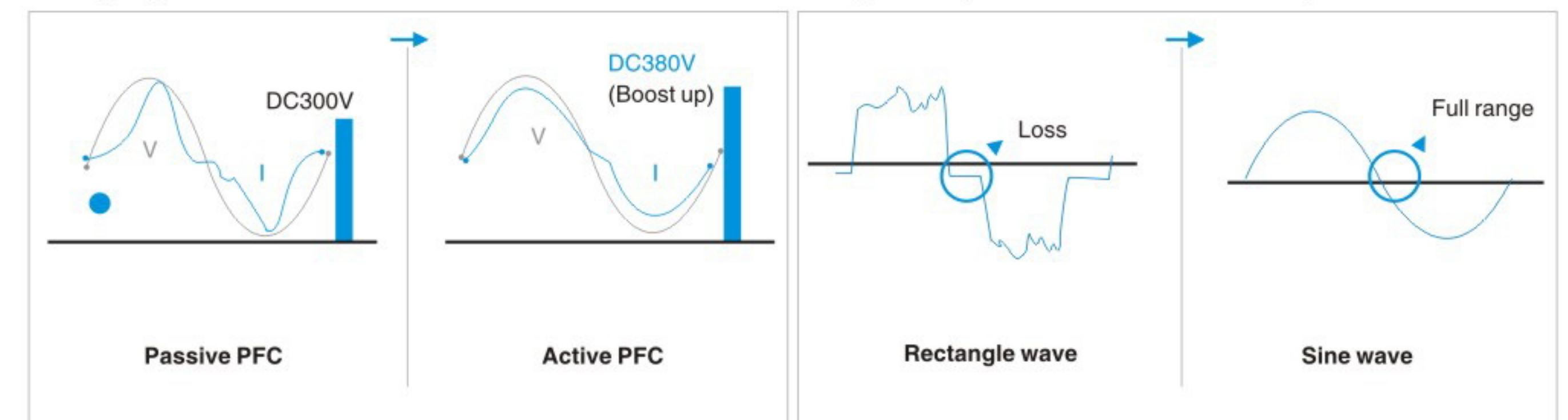
Flexible Installation

With the long piping design, up to a maximum total piping length of 75m, a maximum height difference of 15m can be supported, allowing a wide choice of installation sites and making installation simple and economical.





Energy Saving

Cutting-edge DC inverters of sine wave control and active PFC technology make quieter and more economical operation.



Combination Table

M2OD-14HFN1-Q	One Unit	Two Units		M2OD-18HFN1-Q	One Unit	Two Units	
	7	7-7	9-9		7	7-7	9-9
	9	7-9	9-12		9	7-9	9-12
	12	7-12			12	7-12	9-18
					18	7-18	12-12

M3OD-21HFN1-Q	One Unit	Two Units		Three Units	
	7	7-7	9-9	7-7-7	7-9-12
	9	7-9	9-12	7-7-9	9-9-9
	12	7-12	9-18	7-7-12	9-9-12
	18	7-18	12-12	7-9-9	

M3OD-27HFN1-Q	One Unit	Two Units		Three Units				
	7	7-7	9-9	12-18	7-7-7	7-9-9	7-12-18	9-12-12
	9	7-9	9-12	18-18	7-7-9	7-9-12	9-9-9	9-12-18
	12	7-12	9-18		7-7-12	7-9-18	9-9-12	12-12-12
	18	7-18	12-12		7-7-18	7-12-12	9-9-18	


M4OD-28HFN1-Q	One Unit	Two Units		Three Units				
	7	7-7	9-9	12-18	7-7-7	7-9-9	7-12-18	9-12-12
	9	7-9	9-12	18-18	7-7-9	7-9-12	9-9-9	9-12-18
	12	7-12	9-18		7-7-12	7-9-18	9-9-12	12-12-12
	18	7-18	12-12		7-7-18	7-12-12	9-9-18	

Four Units			
7-7-7-7	7-7-9-9	7-9-9-12	
7-7-7-9	7-7-9-12	7-9-12-12	
7-7-7-12	7-7-12-12	9-9-9-9	
7-7-7-18	7-9-9-9	9-9-9-12	

M4OA-36HFN1-Q	One Unit	Two Units	
	7	7-7	9-9
	9	7-9	9-12
	12	7-12	9-18
	18	7-18	12-12

Three Units			
7-7-7	7-9-9	7-12-18	9-9-18
7-7-9	7-9-12	7-18-18	9-12-12
7-7-12	7-9-18	9-9-9	9-12-18
7-7-18	7-12-12	9-9-12	9-18-18

Four Units						
7-7-7-7	7-7-9-9	7-7-12-18	7-9-9-18	7-12-12-12	9-9-9-18	9-12-12-18
7-7-7-9	7-7-9-12	7-7-18-18	7-9-12-12	7-12-12-18	9-9-12-12	12-12-12-12
7-7-7-12	7-7-9-18	7-9-12-18	9-9-9-9	9-9-12-18	9-9-12-18	12-12-12-18
7-7-7-18	7-7-12-12	7-9-9-12	7-9-18-18	9-9-9-12	9-12-12-12	

M5OC-36HFN1-Q	One Unit	Two Units		Three Units		
	7	7-7	9-12	7-7-7	7-9-12	9-9-18
	9	7-9	9-18	7-7-9	7-12-12	9-12-12
	12	7-12	12-12	7-7-12	7-12-18	12-12-18
	18	7-18	12-18	7-7-18	7-18-18	12-18-18
		9-9	18-18	7-9-9	9-9-9	12-12-12
				7-9-12	9-9-12	12-12-18

Four Units					
7-7-7-7	7-7-9-18	7-9-9-18	7-12-18-18	9-9-18-18	
7-7-7-9	7-7-12-12	7-9-12-12	9-9-9-9	9-12-12-18	
7-7-7-12	7-7-12-18	7-9-12-18	9-9-9-12	9-12-12-18	
7-7-7-18	7-7-18-18	7-9-18-18	9-9-9-18	12-12-12-12	
7-7-9-9	7-9-9-9	7-12-12-12	9-9-12-12	12-12-12-18	
7-7-9-12	7-9-9-12	7-12-12-18	9-9-12-18		


Five Units					
7-7-7-7-7	7-7-7-9-18	7-7-9-12-18	7-9-9-12-18	9-9-9-12-12	
7-7-7-7-9	7-7-7-12-18	7-7-12-12-18	7-9-12-12-12	9-9-9-12-18	
7-7-7-7-12	7-7-7-18-18	7-9-9-9-9	7-9-12-12-18	9-9-12-12-12	
7-7-7-7-18	7-7-9-9-9	7-9-9-9-12	9-9-9-9-9	9-12-12-12-12	
7-7-7-9-9	7-7-9-9-12	7-9-9-9-18	9-9-9-9-12	12-12-12-12-12	
7-7-7-9-12	7-7-9-9-12	7-9-9-12-12	9-9-9-9-18		

Outdoor Unit

Model No.	M2OD-14HFN1-Q	M2OD-18HFN1-Q	M3OD-21HFN1-Q	M3OD-27HFN1-Q
System Format	1 drive 2		1 drive 3	1 drive 3
Power				
Power Supply	V~, Hz, Ph 220-240, 50, 1			
Dimension & Weight & Piping Size				
Air Flow Volume	2500	2500	2500	3500
Sound Power Noise Level	63	63	63	67
Net Dimension (mm)	845x700x320	845x700x320	845x700x320	900x860x315
Packing Dimension (mm)	965x755x395	965x755x395	965x755x395	1043x915x395
Net / Gross Weight (kg)	46/50	48/52	48/52	62/67
Piping Size (mm(inch))	Liquid Ø6.35(1/4)	Liquid Ø6.35(1/4)	Liquid Ø6.35(1/4)	Liquid Ø6.35(1/4)
	Gas Ø9.52(3/8)	Gas Ø9.52(3/8)	Gas Ø9.52(3/8)	Gas Ø9.52(3/8)
Max. pipe length(each indoor) m	15	15	15	15
Applicable Area (m2) & Stuffing Quantity				
Max. height difference (each indoor) m	10	10	10	10
Stuffing Quantity (Set)	20/40/40HQ	100/214/216	100/214/216	100/214/216

Model No.	M4OD-28HFN1-Q	M4OA-36HFN1-Q	M5OC-36HFN1-Q
System Format	1 drive 3		1 drive 5
Power			
Power Supply	V~, Hz, Ph 220-240, 50, 1		
Dimension & Weight & Piping Size			
Air Flow Volume	3500	5500	5500
Sound Power Noise Level	67	67	67
Net Dimension (mm)	900x860x315	990x965x345	990x965x345
Packing Dimension (mm)	1043x915x395	1120x1100x435	1120x1100x435
Net / Gross Weight (kg)	65/69	68/78	80/91
Piping Size (mm(inch))	Liquid Ø6.35(1/4)	Liquid Ø6.35(1/4)	Liquid Ø6.35(1/4)
	Gas Ø9.52(3/8)	Gas Ø9.52(3/8)	Gas Ø9.52(3/8)
Max. pipe length(each indoor) m	15	15	15
Applicable Area (m2) & Stuffing Quantity			
Max. height difference (each indoor) m	10	10	10
Stuffing Quantity (Set)	20/40/40HQ	62/128/128	50/106/108

Premier

Combination Performance		MS11PU-09HRFN1-QRD0W		
	Combination	9+9	9+9+9	9+9+9+9
	Pdesignc (Btu/h / kW)	18000 / 5.3	27600 / 8.1	36000 / 10.6
	Pdesignh (Btu/h / kW)	19800 / 5.8	29000 / 8.6	37000 / 10.9
	SEER(Average) (W/W)	6.3	7	5.8
	Energy Rate (Cooling)	A++	A++	A+
	SCOP(Average) (W/W)	4.1	3.9	3.8
	Energy Rate (Heating)	A	A	A
	Tbiv°C / Tol°C	-7 / -15	-7 / -15	-7 / -15

Unit Performance		MS11PU-09HRFN1-QRD0W	MS11PU-12HRFN1-QRC8W
Power supply	(V~, Hz, Ph)	220-240, 50, 1	220-240, 50, 1
Rated Cooling capacity	(Btu/h) / (kW)	9000/2.64	12000/3.52
Rated Heating capacity	(Btu/h) / (kW)	10000/2.93	13000/3.81
Air Flow Volume	(m3/h)(Indoor)	620/480/370	620/520/420
Sound Power Noise Level	(dB(A))(Indoor)(Hi)	51	51
Net Dimension (mm)	(Indoor)(W*H*D)	898x298x148	898x298x148
Packing Dimension (mm)	(Indoor)(W*H*D)	985x375x260	985x375x260
Net / Gross Weight	(kg)(Indoor)	10 / 13	10 / 13
Piping Size (Liquid) / (Gas)	(mm)(inch)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)
Applicable Area	(m2)	16-24	20-30

Oasis

Combination Performance		MS11MI-07HRFN1-QW				MS11MU-09HRFN1-QRD0W(B)		
Combination		7+7	7+7+7	7+7+7+7	7+7+7+7+7	9+9	9+9+9	9+9+9+9
Pdesignc (Btu/h / kW)		14000/4.1	22000/6.4	28000/8.2	35800/10.5	18000/5.3	27000/7.9	36000/10.6
Pdesignh (Btu/h / kW)		15000/4.4	21000/6.1	28000/8.2	38000/11.1	20000/6.0	28000/8.2	37500/11
SEER(Average) (W/W)		6.1	6.4	6.4	5.8	6.3	6.6	5.8
Energy Rate (Cooling)		A++	A++	A++	A+	A++	A++	A+
SCOP(Average) (W/W)		4.0	4.1	3.8	3.8	4.2	3.9	3.8
Energy Rate (Heating)		A+	A+	A	A	A+	A	A
Tbiv°C / Tol°C		-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15



Unit Performance	MS11MI-07HRFN1-QW	MS11MU-09HRFN1-QRD0W	MS11MU-12HRFN1-QRD0W	MS11MU-18HRFN1-QRC8W
Power supply (V ~, Hz, Ph)	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Rated Cooling capacity (Btu/h)(kW)	7000/2.05	9000/2.64	12000/3.52	17000/4.98
Rated Heating capacity (Btu/h)(kW)	7500/2.20	10000/2.93	13000/3.81	18000/5.27
Air Flow Volume (m3h)(Indoor)	650/570/420	650/570/420	750/640/510	1150/900/750
Sound Power Noise Level (dB(A))(Indoor(H))	52	52	54	56
Net Dimension (mm) (Indoor (W*H*D))	750x280x200	750x280x200	835x280x200	990x315x220
Packing Dimension (mm) (Indoor (W*H*D))	815x350x265	815x350x265	895x350x265	1065x400x300
Net / Gross Weight (kg)(Indoor)	7 / 9	7 / 9	9 / 11	11.5 / 14.5
Piping Size (Liquid) / (Gas) (mm)(inch)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø12.7(1/2)
Applicable Area (m2)	11-17	16-24	20-30	28-40

Fairwind

Combination Performance		MS12FI-07HRDN1-QRC8W				MS12FU-09HRDN1-QRC8W		
Combination		7+7	7+7+7	7+7+7+7	7+7+7+7+7	9+9	9+9+9	9+9+9+9
Pdesignc (Btu/h / kW)		14000/4.1	22000/6.4	28000/8.2	35800/10.5	18500/5.4	28700/8.4	36000/10.6
Pdesignh (Btu/h / kW)		15000/4.4	21000/6.1	28000/8.2	35000/10.3	19000/5.6	28700/8.4	33500/9.8
SEER(Average) (W/W)		5.4	5.4	5.6	5.4	5.6	6.0	5.1
Energy Rate (Cooling)		A	A	A+	A	A+	A+	A
SCOP(Average) (W/W)		3.8	4.0	3.8	3.8	3.8	3.8	3.8
Energy Rate (Heating)		A	A+	A	A	A	A	A
Tbiv°C / Tol°C		-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15



Unit Performance	MS12FI-07HRDN1-QRC8W	MS12FI-09HRDN1-QRC8W	MS12FU-12HRFN1-QRC8W	MS12FU-18HRFN1-QRC8W
Power supply (V ~, Hz, Ph)	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Rated Cooling capacity (Btu/h)(kW)	7000/2.05	9500/2.78	11000/3.22	17000/4.98
Rated Heating capacity (Btu/h)(kW)	8000/2.34	9000/2.64	11000/3.22	18000/5.28
Air Flow Volume (m3h)(Indoor)	620/540/440	630/540/440	630/540/440	730/480/400
Sound Power Noise Level (dB(A))(Indoor(H))	58	58	57	55
Net Dimension (mm) (Indoor (W*H*D))	800x275x188	800x275x188	800x275x188	940x275x205
Packing Dimension (mm) (Indoor (W*H*D))	865x350x265	865x350x265	865x350x265	1015x350x265
Net / Gross Weight (kg)(Indoor)	7 / 9	7 / 9	7 / 9	9 / 12
Piping Size (Liquid) / (Gas) (mm)(inch)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø12.7(1/2)
Applicable Area (m2)	11-17	16-24	20-30	28-40

Luna

Combination Performance		MS9AI-07HRFN1-QRC8				MS9AI-09HRDN1-QRC8		
Combination		7+7	7+7+7	7+7+7+7	7+7+7+7+7	9+9	9+9+9	9+9+9+9
Pdesignc (Btu/h / kW)		14000/4.1	22000/6.4	28000/8.2	35800/10.5	18000 / 5.3	28700 / 8.4	35800 / 10.6
Pdesignh (Btu/h / kW)		15000/4.4	21000/6.1	28000/8.2	38000/11.1	20800 / 6.1	32000 / 9.4	38000 / 11.1
SEER(Average) (W/W)		5.6	6.0	6.2	5.6	5.2	5.7	5.1
Energy Rate (Cooling)		A+	A++	A++	A+	A	A+	A
SCOP(Average) (W/W)		3.8	3.8	3.8	3.8	4.1	4.0	3.8
Energy Rate (Heating)		A	A	A	A	A+	A+	A
Tbiv°C / Tol°C		-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15



Unit Performance	MS9AI-07HRFN1-QRC8	MS9AI-09HRDN1-QRC8	MS9AU-12HRDN1-QRC8W	MS9AU-18HRFN1-QRC8W
Power supply (V ~, Hz, Ph)	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Rated Cooling capacity (Btu/h)(kW)	7000/2.05	9000/2.64	12000/3.52	17000/4.98
Rated Heating capacity (Btu/h)(kW)	8000/2.34	10000/2.93	13000/3.81	17500/5.13
Air Flow Volume (m3h)(Indoor)	450/370/310	500/430/380	550/480/420	900/830/670
Sound Power Noise Level (dB(A))(Indoor(H))	54	54	54	56
Net Dimension (mm) (Indoor (W*H*D))	710x250x190	790x265x198	790x265x198	920x292x223
Packing Dimension (mm) (Indoor (W*H*D))	770x318x265	875x335x265	875x335x265	1015x368x295
Net / Gross Weight (kg)(Indoor)	7.5/9.5	8 / 10	8 / 10	11 / 13.5
Piping Size (Liquid) / (Gas) (mm)(inch)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø12.7(1/2)
Applicable Area (m2)	11-17	16-24	20-30	28-40

Compact Round Flow Cassette

Combination Performance		MCA2I-07HRFN1-QRC8				MCA2I-09HRFN1-QRC8		
Combination		7+7	7+7+7	7+7+7+7	7+7+7+7+7	9+9	9+9+9	9+9+9+9
Pdesignc (Btu/h / kW)		14000/4.1	22000/6.4	28000/8.2	35800/10.5	18000 / 5.3	27000 / 7.9	35800 / 10.6
Pdesignh (Btu/h / kW)		15000/4.4	21000/6.1	28000/8.2	35000/10.3	19000 / 5.6	28000 / 8.2	35500 / 10.4
SEER(Average) (W/W)		5.1	5.4	5.4	5.1	5.8	5.8	5.2
Energy Rate (Cooling)		A	A	A	A	A+	A+	A
SCOP(Average) (W/W)		4.0	3.8	3.8	3.8	3.8	3.8	3.8
Energy Rate (Heating)		A+	A	A	A	A	A	A
Tbiv°C / Tol°C		-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15



Unit Performance	MCA2I-07HRFN1-QRC8	MCA2I-09HRFN1-QRC8	MCA2U-12HRFN1-QRC8	MCA2I-18HRDN1-QRC8
Power supply (V ~, Hz, Ph)	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Rated Cooling capacity (Btu/h)(kW)	7000/2.05	9000/2.64	12000/3.52	17000/4.98
Rated Heating capacity (Btu/h)(kW)	8000/2.34	10000/3.2	12000/3.52	17500/5.13
Air Flow Volume (m3h)(Indoor)	680	680	680	680
Sound Power Noise Level (dB(A))(Indoor(H))	53	53	53	53
Net Dimension (mm) (Body (WxHxD))	570x260x570	570x260x570	570x260x570	570x260x570
Panel (WxHxD)	647x50x647	647x50x647	647x50x647	647x50x647
Packing Dimension (mm) (Body (WxHxD))	655x290x655	655x290x655	655x290x655	655x290x655
Panel (WxHxD)	715x123x715	715x123x715	715x123x715	715x123x715
Net / Gross Weight (kg) (Body/Panel)	15/18 / 2.5/4.5	17/20 / 2.5/4.5	17/20 / 2.5/4.5	17/20 / 2.5/4.5
Piping Size (Liquid/Gas) (mm)(inch)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø9.52(3/8)	Ø6.35(1/4) / Ø12.7(1/2)
Applicable Area (m2)	11-17	16-24	20-30	28-40

Duct

Combination Performance		MTBI-07HWFN1-QRC8				MTBI-09HWFN1-QRC8		
Combination		7+7	7+7+7	7+7+7+7	7+7+7+7+7	9+9	9+9+9	9+9+9+9
Pdesignc (Btu/h / kW)		14000/4.1	22000/6.4	28000/8.2	35800/10.5	18800/5.5	27000/7.9	35800/10.5
Pdesignh (Btu/h / kW)		15000/4.4	21000/6.1	21000/6.1	35000/10.3	19800/5.8	28000/8.2	35800/10.5
SEER(Average) (W/W)		5.1	5.4	5.4	5.1	5.8	5.8	5.2
Energy Rate (Cooling)		A	A	A	A	A+	A+	A
SCOP(Average) (W/W)		4.0	3.8	3.8	3.8	3.8	3.8	3.8
Energy Rate (Heating)		A+	A	A	A	A	A	A
Tbiv°C / Tol°C		-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15

Unit Performance		MTBI-07HWFN1-QRC8	MTBI-09HWFN1-QRC8	MTBU-12HWFN1-QRC8	MTBI-18HWDN1-QRC8
Power supply (V~, Hz, Ph)		220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Pdesignc (Btu/h / kW)		7000/2.05	9000/2.64	12000/3.52	18000/5.3
Pdesignh (Btu/h / kW)		8000/2.34	10000/2.93	13000/3.81	20000/5.8
Air Flow Volume (m3h)(Indoor)		680	700	700	1000
Sound Power Noise Level (dB(A))(Indoor(Hi))		54	55	55	56
Static Pressure (Pa)		40	40	40	70
Net Dimension (mm) (Indoor (W*H*D))		700x210x635	700x210x635	700x210x635	920x210x635
Packing Dimension (mm) (Indoor (W*H*D))		915x290x655	915x290x655	915x290x655	1135x290x655
Net / Gross Weight (kg) (Indoor)		19.5/24.5	19.5/24.5	19.5/24.5	23/29
Piping Size(Liquid / Gas) (mm)(inch)		Ø6.35(1/4)/Ø9.52(3/8)	Ø6.35(1/4)/Ø9.52(3/8)	Ø6.35(1/4)/Ø9.52(3/8)	Ø6.35(1/4)/Ø12.7(1/2)
Applicable Area (m2)		11-17	16-24	20-30	28-40

Console

Combination Performance		MFAI-07HRFN1-QRC8				MFAI-09HRDN1-QRC8		
Combination		7+7	7+7+7	7+7+7+7	7+7+7+7+7	9+9	9+9+9	9+9+9+9
Pdesignc (Btu/h / kW)		14000/4.1	22000/6.4	28000/8.2	35800/10.5	18000/5.3	27000/7.9	36000/10.5
Pdesignh (Btu/h / kW)		15000/4.4	21000/6.1	28000/8.2	35000/10.3	19000/5.6	28600/8.2	36000/10.4
SEER(Average) (W/W)		5.1	5.4	5.4	5.1	5.8	6.1	5.4
Energy Rate (Cooling)		A	A	A	A	A+	A+	A+
SCOP(Average) (W/W)		3.8	3.8	3.8	3.8	3.8	3.8	3.8
Energy Rate (Heating)		A	A	A	A	A	A	A
Tbiv°C / Tol°C		-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15	-7 / -15

Unit Performance		MFAI-07HRFN1-QRC8	MFAI-09HRDN1-QRC8	MFAU-12HRFN1-QRC8	MFAI-18HRDN1-QRC8
Power supply (V~, Hz, Ph)		220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Pdesignc/Pdesignh (Btu/h / kW)		7000/2.05 / 8000/2.34	9000/2.64 / 10000/2.93	12000/3.52 / 12000/3.52	18000/5.3 / 20000/5.8
Air Flow Volume (m3h)(Indoor)		450	450	450	630
Sound Power Noise Level (dB(A))(Indoor(Hi))		57	57	57	59
Net Dimension (mm) (Indoor (W*H*D))		700x210x600	700x210x600	700x210x600	700x210x600
Packing Dimension (mm) (Indoor (W*H*D))		810x365x710	810x365x710	810x365x710	810x365x710
Net / Gross Weight (kg) (Indoor)		13/19	13/19	15/20	15/20
Piping Size(Liquid)/(Gas) (mm)(inch)		Ø6.35(1/4)/Ø9.52(3/8)	Ø6.35(1/4)/Ø9.52(3/8)	Ø6.35(1/4)/Ø9.52(3/8)	Ø6.35(1/4)/Ø12.7(1/2)
Applicable Area (m2)		11-17	16-24	20-30	28-40

PD Portable



Standard Features



Optional Features



Heat Pump Function

Heating pump system is an excellent alternative for the traditional electrical heating system, as the former can provide more heating capacity and is more efficient. Moreover, thanks to the air circulating fast throughout the room, this heating system guarantees comfort much more quickly.



0.5W Standby

Midea new air conditioners save your money even when it is off. Intelligent on-off technology enables Midea products automatically enter energy saving mode when on standby mode, cut energy consumption from conventional 2W to 0.5W which counts 75% of saving.



Specification

Model No.	MPPD-09CRN1-QB6	MPPD-09ERN1-QB6	MPPD-12CRN1-QB6	MPPD-12ERN1-QB6	MPPD-12HRN1-QB6
Capacity					
Cooling Capacity	Btu/h	9000	9000	12000	12000
	kW	2.63	2.63	3.52	3.52
Heating Capacity	Btu/h	-	5000	-	10000
	kW	-	1.47	-	2.93
Electrical parts					
Power Supply	V~, Hz, Ph	220-240,50, 1	220-240,50, 1	220-240,50, 1	220-240,50, 1
Power Input (kW)	Cooling	1010	1010	1350	1350
	Heating	-	1550	-	1750
Operating Current (A)	Cooling	4.4	4.4	5.87	5.87
	Heating	-	6.8	-	7.6
Performance					
EER (W/W)		2.6	2.6	2.6	2.6
Energy Rate		A	A	A	A
Moisture Removal	l/h	1.0	1.0	1.2	1.2
Air Flow Volume (m3h)		320	310	370	370
Sound Power Noise Level dB(A) (Hi Speed)		64	64	65	65
Dimension & Weight & Piping Size					
Net Dimension(mm)	(WxHxD)	454x365x700	454x365x700	467x397x765	467x397x765
Packing Dimension(mm)	(WxHxD)	505x410x875	505x410x875	517x437x880	517x437x880
Net /Gross Weight(kg)		30/34	31/35	33.5/37	34.5/38
Applicable Area & Stuffing Quantity					
Applicable Area(m2)		13-22	13-22	18-29	18-29
Stuffing Quantity (Set)	20'/40'HQ	126/385	126/385	114/354	114/354

PS Portable

DG Dehumidifier

Standard Features



Optional Features



Ionizer(Optional)

Taking advantage of Ionizer Technology, Midea air-conditioner brings fresh air with negative oxygen ions to your room. Negative oxygen ions can eliminate dust and smoke. The amount of generated negative ions can reach as high as $1.0 \times 10^7 / m^3$.

Standard Features



Optional Features

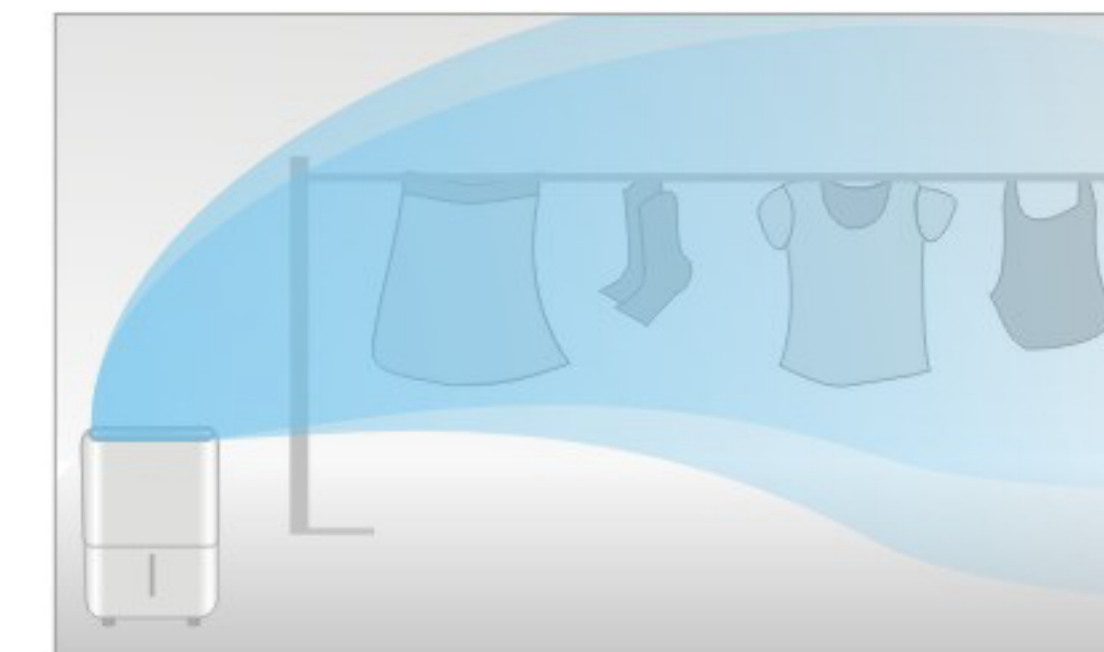


Large Capacity Tank

3L for small size, 4.7L for big size. Visible water level. Tank control system: the unit automatically stops when the water tank is full.

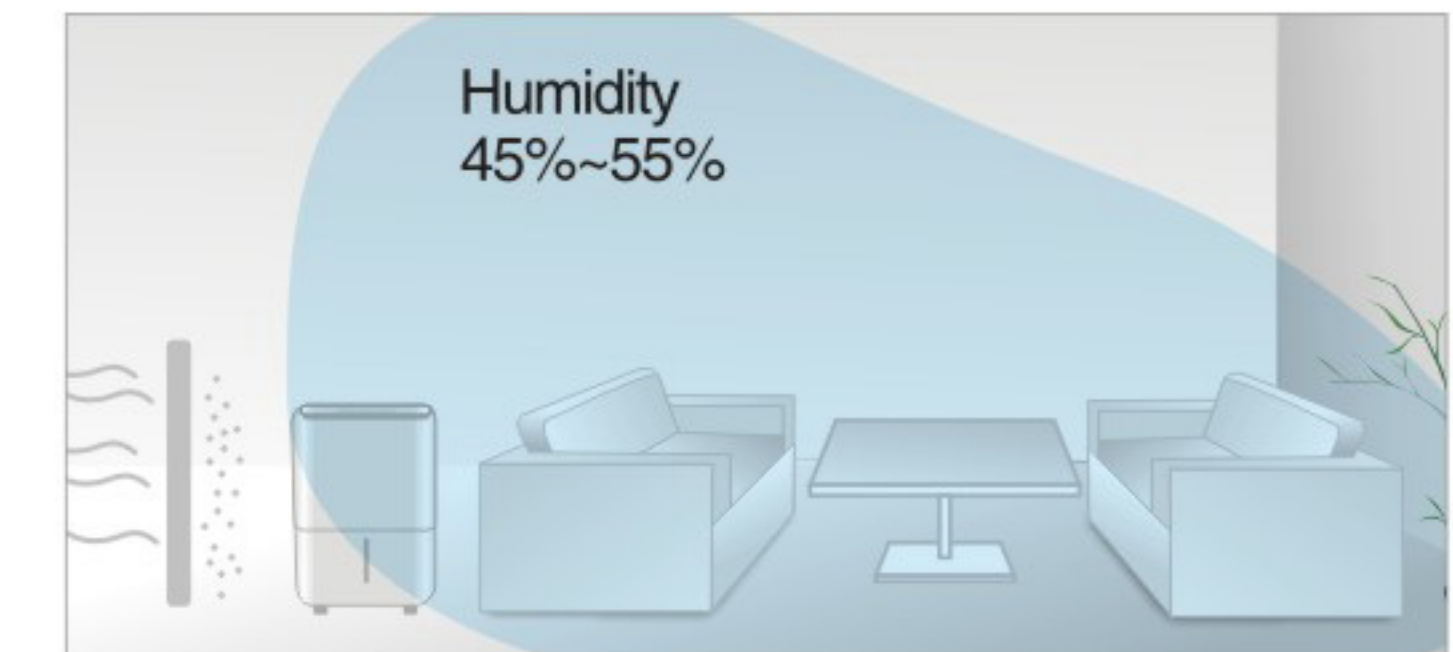
Dryer Mode(Optional)

Intelligent dryer mode to dry up clothes quickly.



Smart Dehumidifying(Optional)

Automatically control room humidity in a comfortable range 45%~55% according to room temperature, inhibit bacterial growth.



Specification

Model No.		MPPS-09CRN1-QB6G1			
Capacity		Electrical parts			
Cooling Capacity	Btu/h	9000	Power Supply	V~, Hz, Ph	220-240, 50, 1
	kW	2.63	Power Input (kW)	Cooling	1010
Heating Capacity	Btu/h	-		Heating	-
	kW	-	Operating Current (A)	Cooling	4.4
				Heating	-
Performance		Dimension & Weight & Piping Size			
EER (W/W)		2.6	Net Dimension(mm)	(WxHxD)	374x370x769
Energy Rate		A	Packing Dimension(mm)	(WxHxD)	530x420x885
Moisture Removal	lh	1.0	Net/Gross Weight(kg)		25.5/39
Air Flow Volume (m3/h)		330			
Sound Power Noise Level dB(A) (Hi Speed)		64			
Applicable Area & Stuffing Quantity					
Applicable Area(m2)		13-22	Stuffing Quantity (Set)	20'/40'HQ	118/360

Specification

Mode No.	MDDG-10DEN3-QA3	MDDG-16DEN3-QA3	MDDG-20DEN3-QA3	MDDG-30DEN3-QA3	MDDG-30DEN3-QA3L
Capacity					
Moisture Removal	30°C, RH80%	10	16	20	30
Electrical parts					
Power Supply	V~, Hz, Ph	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1	220-240, 50, 1
Power Input (W)	30°C, RH80%	285	375	400	635
Operating Current (A)	30°C, RH80%	1.57	1.75	1.85	3.3
Performance					
Air Flow Volume (m3/h)		195	195	195	215
water tank volume	L	3	3	3	4.7
Noise Level (dB(A))	(Hi/Lo)	50/46.5	50/46.5	50/46.5	50/48
Dimension & Weight & Piping Size					
Net Dimension(mm)	(WxHxD)	350x230x510	350x230x510	350x230x510	400x254x562
Packing Dimension(mm)	(WxHxD)	390x280x530	390x280x530	390x280x530	432x286x581
Net/Gross Weight(kg)		11.5/12.5	12/13	12/13	15.5/16.5
Applicable Area & Stuffing Quantity					
Applicable Area		16-31	29-44	37-52	58-73
Stuffing Quantity (Set)	20'/40'HQ	464/1235	464/1235	464/1235	327/890

Wired Controller



KJR-12B



KJR-135A/MBTF-E



KJR-90A



KJR-90C



KJR-120A/TF-E

Functions

Follow Me

Sensor Part 1

Follow Me Button 2

With the FOLLOW ME function, the wired controller can detect the air temperature at the user's altitude instead that of the ceiling or floor. This helps making the room environment comfortable and the temperature accurate.

* The follow me function is available for KJR-12B model.

1 Sensor Part 2 Follow Me Button

Functions



KJR-90A

- Features**
- Basic functions are the same as KJR-10B
 - Small and easy to install
 - Suitable for all types of indoor units
 - Can be stored in a mounting cabinet

Built-in Timer
The built-in daily timer offers the convenience of automatically starting and stopping the system at set times.

Wireless signal receiver

Without function

Wireless signal receiver

It can receive the signal from remote controller.



KJR-90C

Weekly Timer function

Allows one-week operation schedules to be registered. Up to eight different time scales can be set for each day. Mode, temperature and fan speed can be set in different time scale. Set Day off for a holiday.

The DAY OFF is set for Wednesday



KJR-120A/TF-E

Specification

Model	KJR-90A	KJR-90C	KJR-120A/TF-E
Dimensions(H*W*D)(mm)	90*86*13	90*86*13	120*120*18.5
Power(v)	DC 5V		



KJR-135A/MBTF-E

- Remote Signal Receiving Function**
KJR-135A/MBTF-E provides a signal receiver for wireless remote controller. The signal is then sent to the indoor unit.
 - "Select swing set" button**
For Super slim four-way cassette unit with the customized panel, the four louvers can be separately controlled by "select swing set" button. Each time you push the button, the wire control select in a sequence that goes from below (1, 2 regarding the unit with Twins function)
-
- Pressing the ▲ / ▼ button can select the movement of four louvers. Each time you push the button, the wire control select in a sequence that goes from below: (the icon "1-0" means the four louvers move at the same time. "1-1" means the first louver moves)
-
- 26°C Operation Shortcut Setting**
The optimum temperature for balancing energy-saving and comfort is 26°C.
 - "LED" button**
Two function is combined by one "LED" button.
1. Press the "LED" button for 1 second, the digital display on the indoor unit will be activated.
2. Press the "LED" button more than 1 second, the room temp. around this wired controller will be displayed on the controller.
The setting temp. will be resumed in 5 seconds.

Specification

Model	KJR-10B	KJR-12B	KJR-135A/MBTF-E
Dimensions(H*W*D)(mm)	120*120*15	120*120*15	135*105*20
Power(v)	DC 5V		

Centralized Controller

Indoor Centralized Control



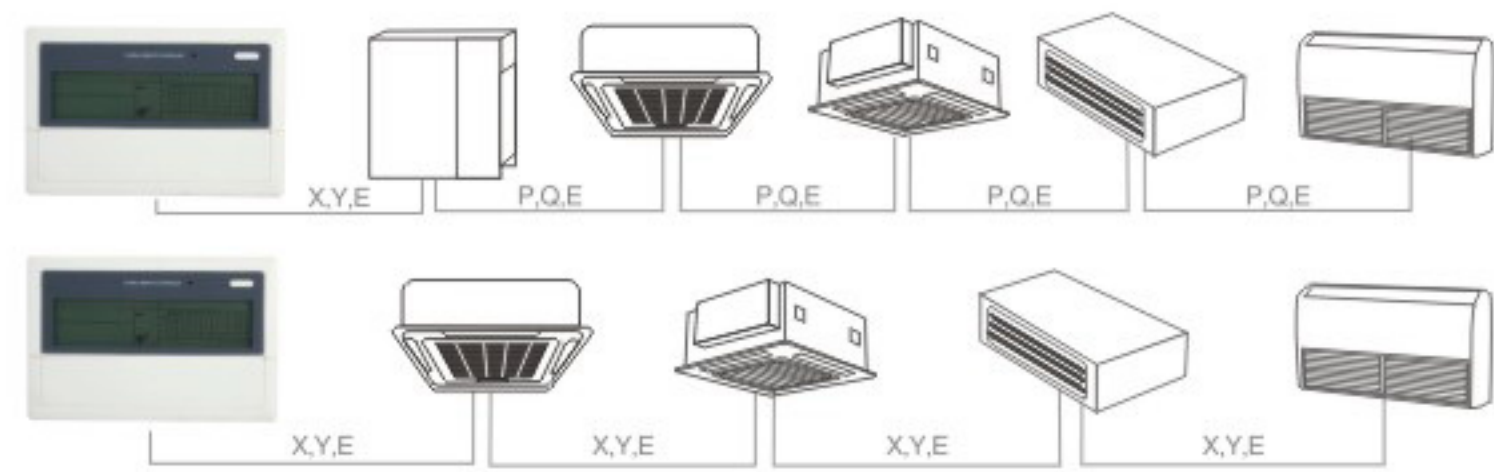
MD-CCM03



Functions

Centralized Control

The centralized controller is a multifunctional device that can control up to 64 indoor units within a maximum connection length of 1,200m. The device connects to the master outdoor units of Midea's newly designed products to simplify and centralize the wiring configuration. The two connection modes are as follows:



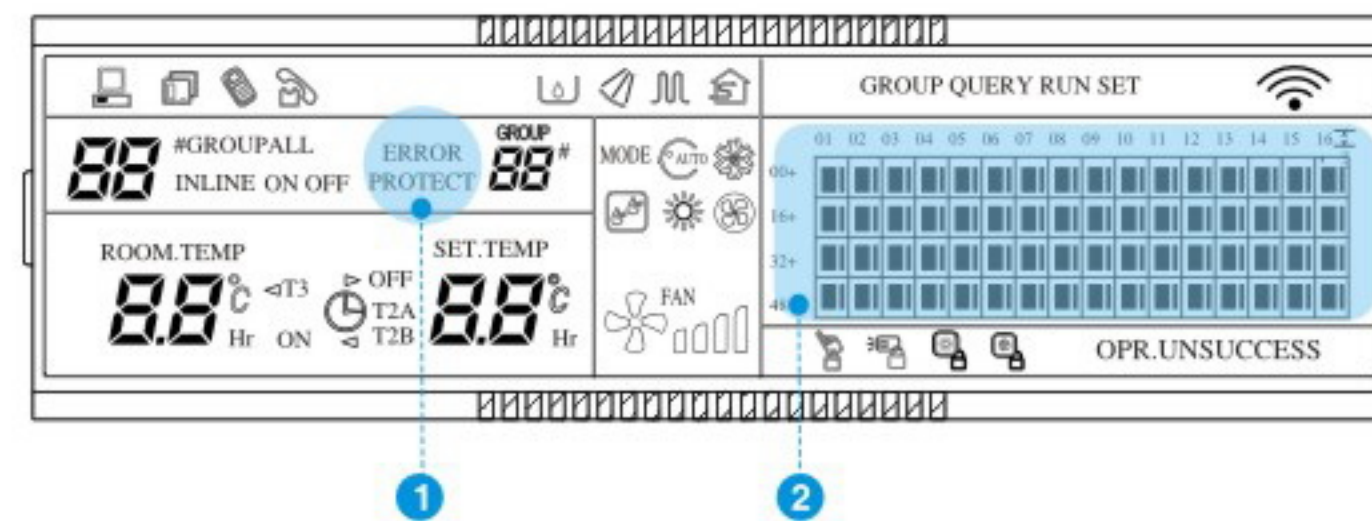
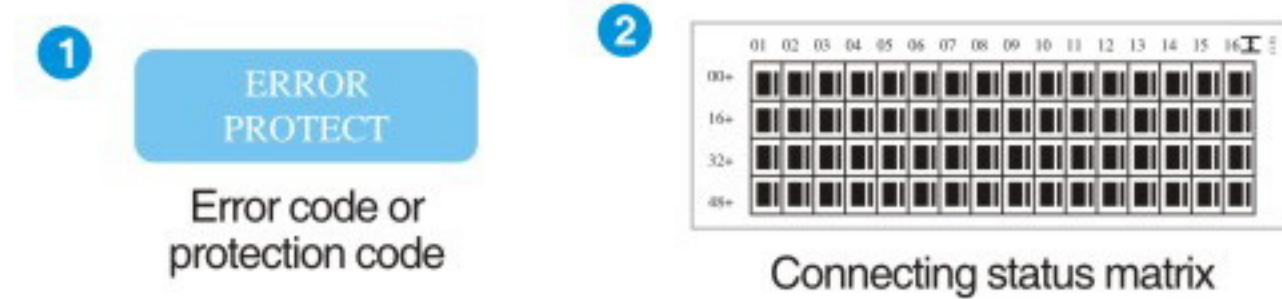
Three Lock Modes

Centralized controller provides a superior way to manage the indoor units. Users are able to make their own choice from locking the wireless controller, locking the running mode or lock the centralized controller's keyboard as they wish.



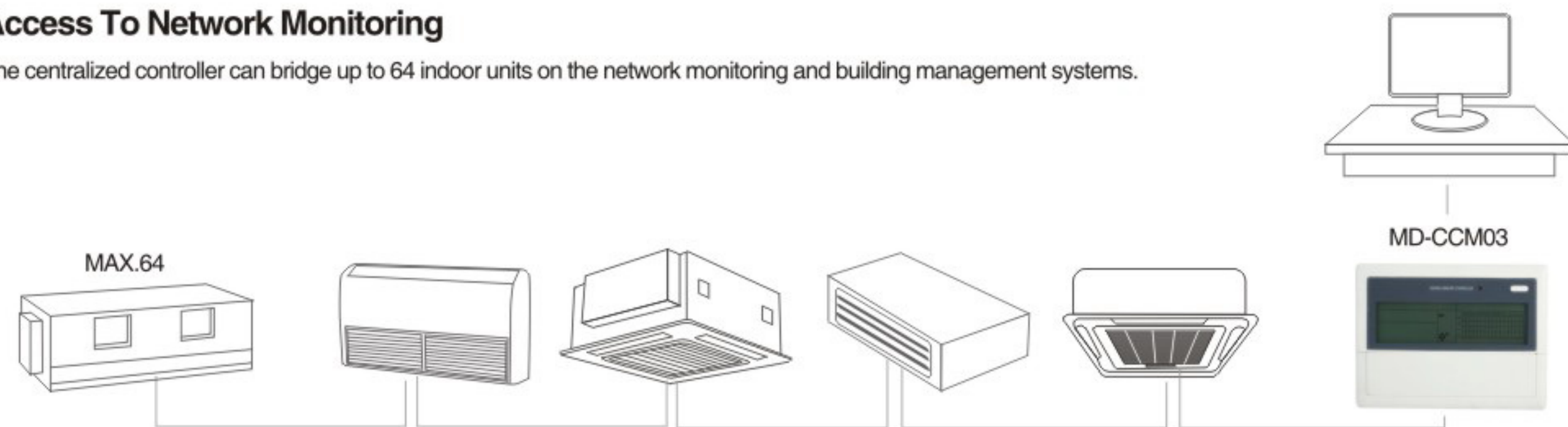
Indoor Unit Working Status Display

The centralized controller displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.



Access To Network Monitoring

The centralized controller can bridge up to 64 indoor units on the network monitoring and building management systems.



Specification

Model	MD-CCM03
Dimensions(H*W*D)(mm)	179*119*74
Power(v)	198-242V(50/60Hz)

Weekly Schedule Centralized Controller



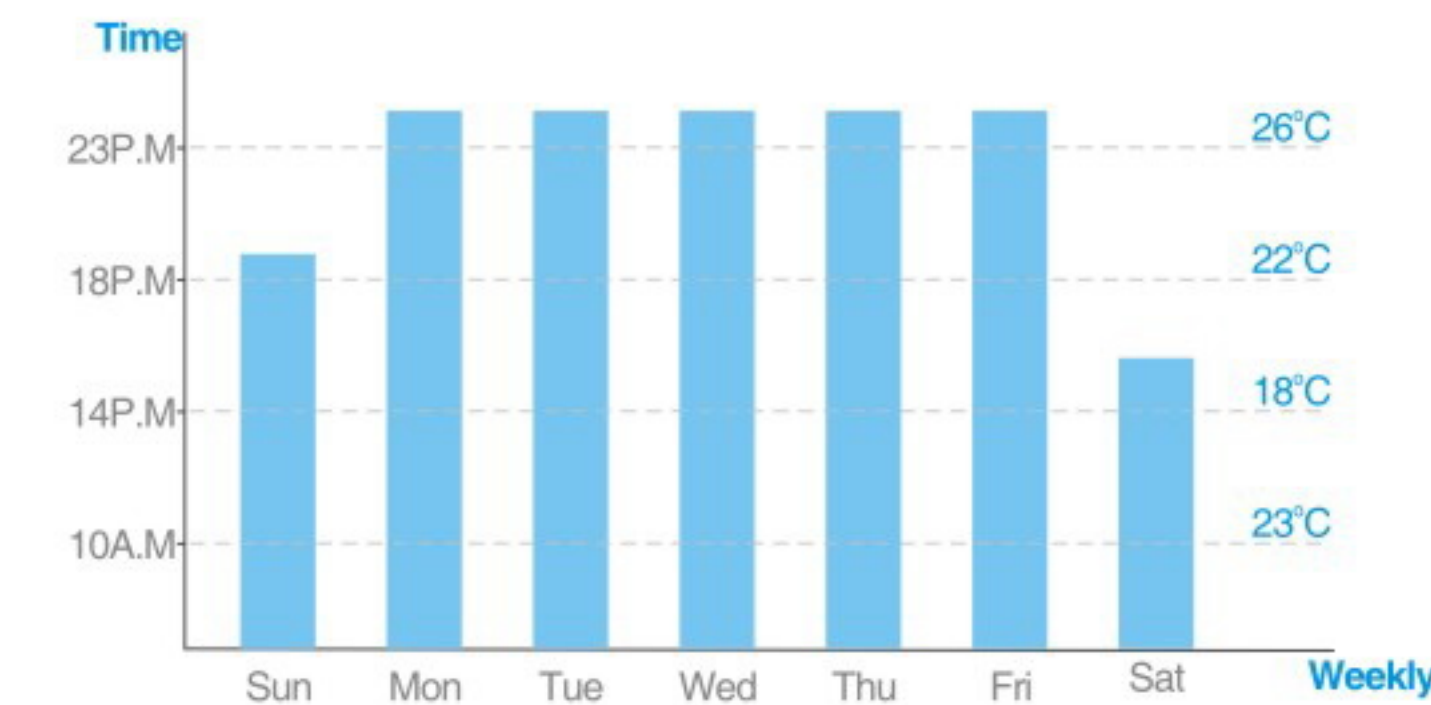
MD-CCM09



Functions

Weekly schedule

MD-CCM09 can include up to 64 indoor units in the weekly schedule. Users can set up to 4 periods per day, and select the desired running mode and room temperature. The operating object can be a single indoor unit or all the indoor units.



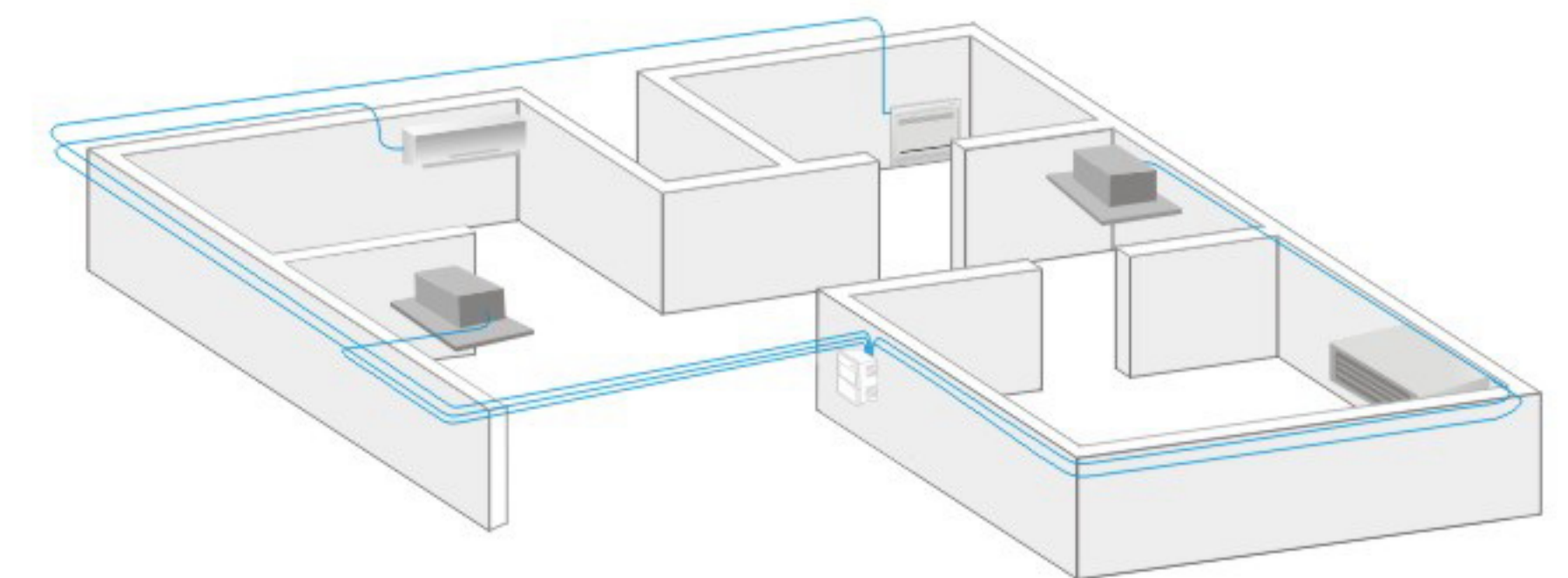
Three Lock Modes

Centralized controller MD-CCM09 provides a superior way to manage the indoor units. Users are able to make their own choice from locking the wireless controller, locking the running mode or lock the MD-CCM09's keyboard as they wish.



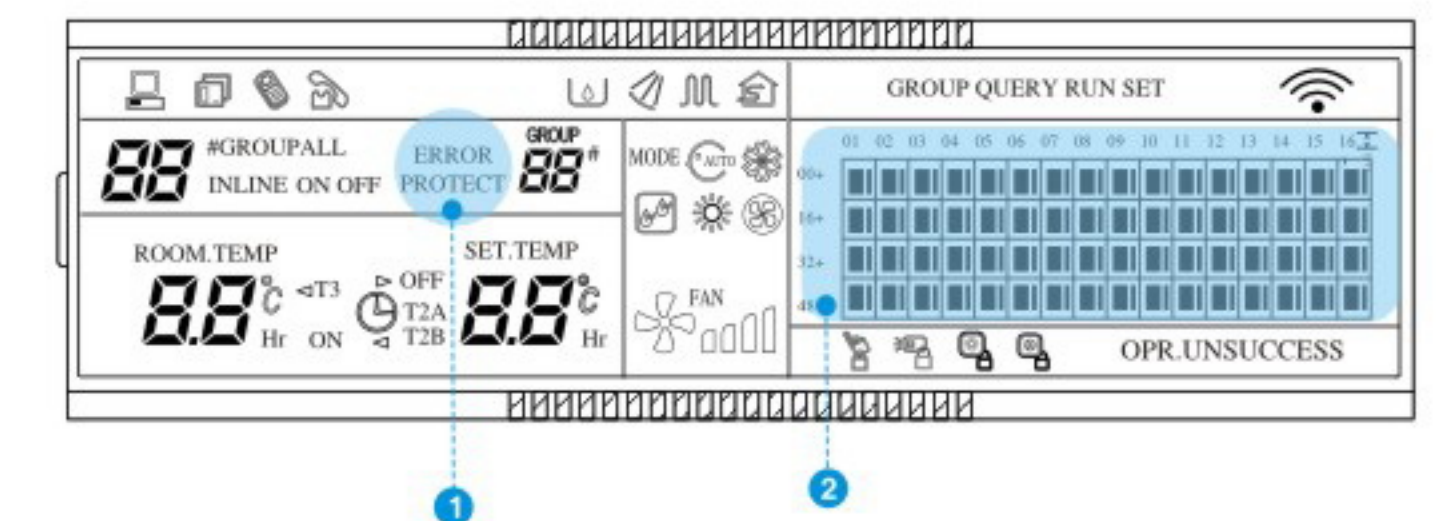
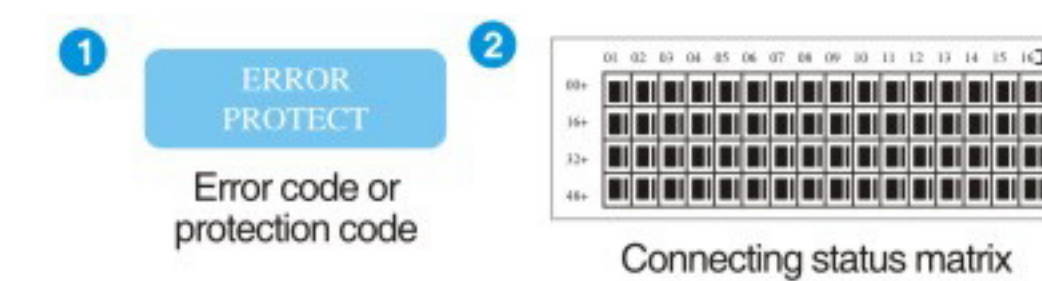
Single/unified control mode

The control object can be either a single unit or all units, which vastly simplifies the control process. Operation signal feedback ensures that all units are working in the correct mode.



Indoor Unit Working Status Display

MD-CCM09 displays indoor units' working status and error codes so users can easily identify faults via checking the error codes table in the user's manual before contacting a service engineer.



Specification

Model	MD-CCM09
Dimensions(H*W*D)(mm)	179*119*74
Power(v)	198-242V(50/60Hz)

Model Code

Residential

M S 9A I - 12 H R F N1 - Q D2

M Midea	S Unit Type S Split Wall-mounted P Portable D Dehumidifier W Window F Floor Standing O Outdoor	9A Product Series 11P Premier Series Y Y Series 11M Oasis Series	I Connect Type I Multi Type Omit Single Type	12 Capacity Air Conditioner: Cooling Capacity (x1000Btu/h) Dehumidifier: Moisture Removal Volume (L/day)
H Function Code C Cooling only H Heat Pump A Heat Pump with Electric Heater E Cooling & Electric Heater	R Control Mode W Wire Control M Mechanical Control E Electric Control R Remote Control	F Inverter Type F Full DC Inverter D DC Inverter I AC Inverter Omit ON / OFF	N1 Refrigerant N1 R410A N2 R407C N3 R134a Omit R22	Q Power Code Power Supply Q 220-240V~, 50Hz, 1Phase R 380-420V~, 50Hz, 3Phase S 380V~, 50Hz, 3Phase

D2 Design Code

Light Commercial (Indoor Unit)

M C D - 24 H R F N1 - Q

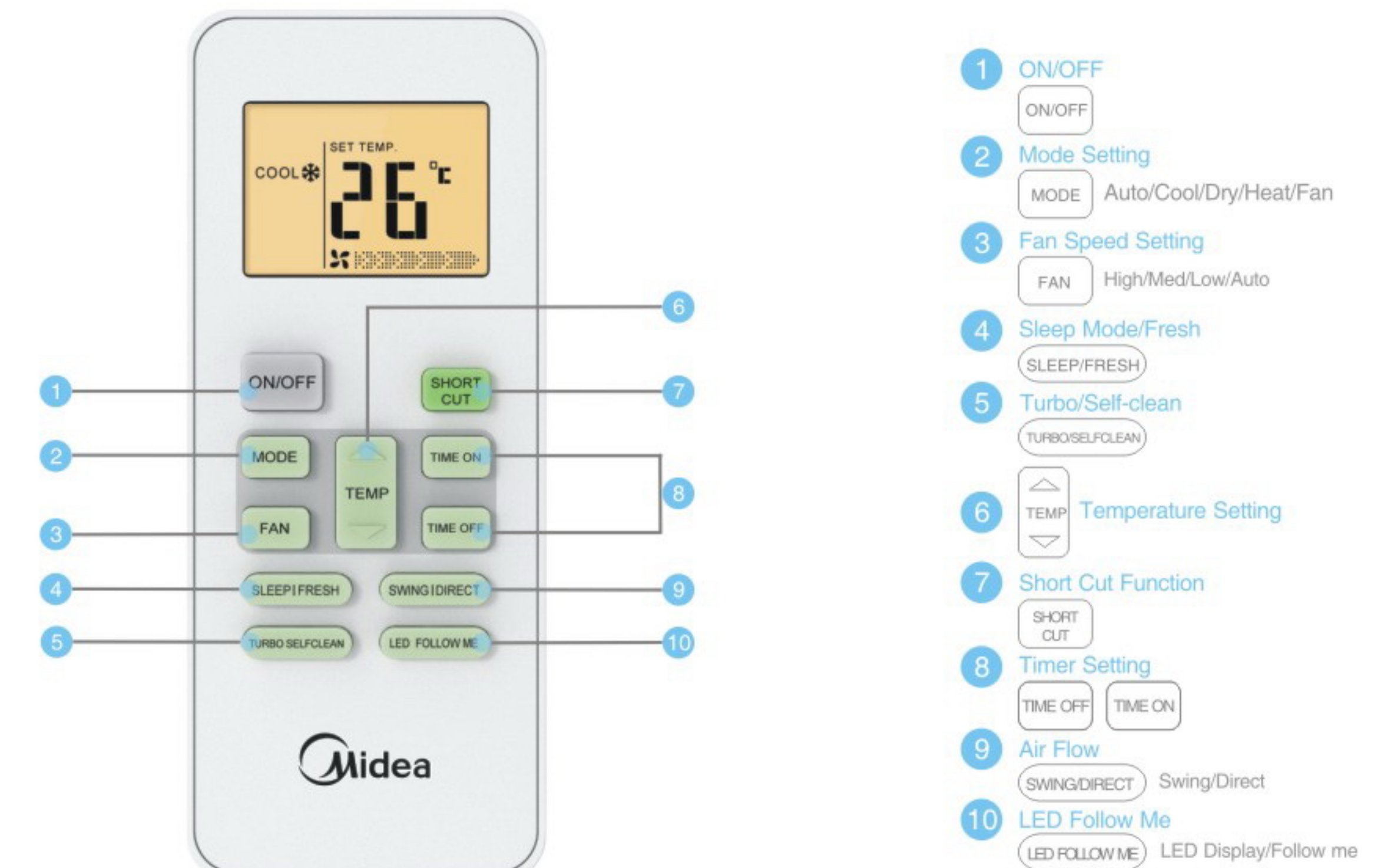
M Midea	C Product Category C Cassette Type T Duct Type H High Static Pressure Duct Type U Ceiling & Floor Type F Console	D Designed Time A 1st Designed B 2nd Designed C 3rd Designed D 4th Designed	24 Capacity Cooling Capacity (x1000Btu/h)	H Function Code C Cooling only H Cooling & Heating
R Control Mode W Wire Control R Remote Control	F Inverter code F Full DC Inverter D DC Inverter Omit ON/OFF	N1 Refrigerant N1 R410A Omit R22	Q Power Code Power Supply (V-Hz-Ph) Q 220-240V~, 50Hz, 1Phase R 380-420V~, 50Hz, 3Phase	

Light Commercial (Outdoor Unit)

M OU B - 36 H F N1 - Q

M Midea	OU Universal Outdoor Unit O Outdoor Unit U Universal	B Designed Time A 1st Designed B 2nd Designed C 3rd Designed D 4th Designed	36 Capacity Cooling Capacity (x1000Btu/h)	H Function Code C Cooling only H Cooling & Heating
F Inverter Type F Full DC Inverter D DC Inverter Omit ON/OFF	N1 Refrigerant N1 R410A Omit R22	Q Power Code Power Supply (V-Hz-Ph) Q 220-240V~, 50Hz, 1Phase R 380-420V~, 50Hz, 3Phase		

Remote Control



Icons Guide

Health



Silver Ion Filter

Sterilize bacteria effectively by decomposing cell wall of bacteria.



Cold Catalyst Filter

Eliminate formaldehyde and other volatile organic compounds (VOCs) as well as harmful gases and odors.



Vitamin C Filter

Release vitamin C which can eliminate active oxygen to beautify the skin.



Bio Filter

Consist of a specialized biological enzyme and eco filter. The eco filter catches very small airborne dust particles and neutralizes bacteria, fungi and microbes. Biological enzymes kill bacteria by dissolving their cell wall thus eliminating the problem of re-pollution.



Compound Filter

Combine three filters from 8 different types including cold catalyst filter, vitamin C filter, negative ion filter, anti-mite filter, enzyme filter, nano-Pt filter, nano-Ag filter, multifunction filter to meet various needs simultaneously.



3M HAF Filter

Open-hole-structure with charged electrostatic effectively capture dust and particles, ensure maximum air flow and minimum pressure drop.



Super Ionizer

Generate positive and negative ions by ionizing air. When the positive ions and negative ions neutralized, it will release tremendous amount of energy to sterilize the air passing through. The redundant negative ions not only eliminate odor, dust, smoke and pollen particles in the air, but also bring more fresh.



Plasma Dust Collector

Generate a high voltage electrostatic zone, absorb and eliminate dust, smoke and pollen particles. It also deodorizes air by removing tobacco odors, garbage smells etc.



Fresh Air

Fresh outside air can be lead into the room via a connection pipe, make air quality healthier.



Self-Cleaning

Indoor unit will continue running at special combined mode to blow and dry indoor evaporator after the unit switched off so as to keep clean and healthy.

Reliability



Chassis Heating Belt

Fitted on the base plate of outdoor unit to avoid defrosting water accumulated, improve heat transfer efficiency.



Self-diagnosis Function

Once abnormal operation or parts failure happen, the unit will shut off automatically to protect the system. Meanwhile it will indicate protection or error code for fast service.



Low Ambient Cooling

With built-in low ambient kit or special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C.



Refrigerant Leakage Detect

Indoor unit will show error code "EC" and stop automatically when refrigerant leakage is detected. This function can better protect compressor being damaged by high temperature due to refrigerant leakage.



Golden Fin

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anticorrosive golden coating on the condenser can withstand the salty air, rain and other corrosive elements.

Comfort



8°C Heating

In heating operation, the preset temperature of the air conditioner can be as low as 8°C, which keeps the room temperature steady at 8°C and prevents the house from freezing when it is unoccupied for a long time in severe cold weather.



Follow Me

Temperature sensor built in the remote controller will sense its surrounding temperature. So the unit can adjust room temperature more accurately to give you more comfort.



3D air flow

Combines vertical and horizontal auto swing to ensure an even distribution of air throughout the room.



Turbo Operation

This function gives you a boost in cooling or heating power for a period, and makes the room cool down or heat up rapidly.



Anti-Cold-Air

Indoor fan speed is regulated automatically from the lowest grade to the setting grade according to the setting grade according to the evaporator temperature when the unit just starts heating operation. This function can prevent cold air blowing out to avoid discomfort to the users.



Two-Direction Airflow

In cooling mode, horizontal airflow does not blow cool air directly at the occupants in the room. In heating mode, vertical airflow provides powerful floor level heating. Precise airflow control makes your environment more comfortable.



Temperature Compensation

The temperature sensed by indoor unit is always different from the actual floor temperature due to different installation heights of indoor unit. This function can revise this temperature difference to make a more accurate temperature control.



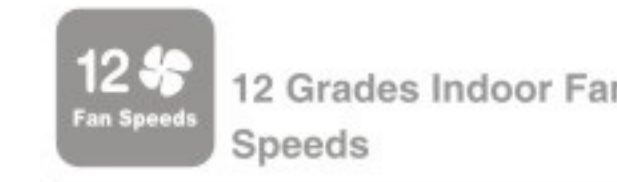
360° Air Flow Panel

360° air outlet creates a soft and gentle air flow which circulates throughout the whole space and provides an even temperature distribution in the room.



Auto Swing

Distributes cool/warm air to maximum area by moving horizontal flaps automatically.



12 Grades Indoor Fan Speeds

Up to 12 grades indoor fan speeds, ensure more accurate control and bring more comfortable air flow.



Self-evaporative System

The slinger-up system automatically recycle condensate water of evaporator to condenser, no need the water bucket. Bring more cooling power and improve cooling efficiency.



Quiet Design

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.



5 Grades Outdoor Fan Speeds

Due to the DC fan motor, outdoor fan speeds increased from 2 grades to 5 grades, more comfortable and energy saving.

Energy Saving



Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first two hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort at night.



Intelligent Eye Detector

With the built-in infrared sensor, the indoor unit detects human movement. The AC will turn off if you leave the room for 30 minutes and turn on when you come back, which helps saving more energy.



1W Standby

Intelligent on-off technology enables Midea products automatically enter energy-saving mode when standby, cut energy consumption from normal 5W to 1W which counts 80% of saving.

Convenience



Mono & Multi Compatible

Compatible indoor unit for both mono and multi inverter system. It comes in handy for warehouse management.



Louver Position Memory Function

Horizontal louver will automatically move to the same position as you set last time when the unit turned on.



Wired Controller

Compared with infrared remote controller, wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



Auto-Restart

If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.



Convenient Handle

Ergonomical handle makes the carrying much easier and convenient.



Transparent Water Level Indication

Easy indicate the water level and empty the water tank timely.



Timer

Set the unit to start and stop automatically in a 24h period.



Built-in Drain Pump

The drain pump can lift the condensing water up to 750mm upmost.



2 Ways Draining Connection

Both left and right sides of indoor unit are possible for drainage hose connection, easy for installation.



Omni-directional Caster

With the integrated swivel casters, make this portable AC easier to move.