1603-1C1605

Commercial Air Conditioners **2016**

INVERTER

DC Inverter

Aqua Mini Chiller & Fan Coil Units

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

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

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Midea CAC After-service Application

iOS Version Android Version

Midea CAC News Application

iOS Version

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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.

2015 » JV with Carrier in China in chiller field, launched the unitary all DC inverter type Aqua Mini Chiller
2014 » Launched the DC Inverter Fan Coil Units
2013 » Launched the super high efficiency centrifugal chiller with full falling film technology
2012 » Formed Midea-Carrier JV.Company in India and HK
2010 » Built the 3rd manufacturing base in Hefei
2009 » Launched the unitary fixed type Aqua Mini Chiller
2008 » Launched the split digital type Aqua Mini Chiller
2006 » Launched the first VSD centrifugal chiller
2004 » Acquired MGRE entered the chiller industry
2001 » Cooperated with Copeland to develop the digital scroll VRF system
2000 » Developed the first inverter VRF with Toshiba
1999 » Entered the CAC field

Midea Company Introduction

Midea CAC Introduction

Reference Projects

Hotel »

①
② ③

① ASEM Resort Villa（Five Star）
② Sheraton Bandara Resort Hotel（Five Star）
③ Aston Kuta Bali Hotel（Five Star）

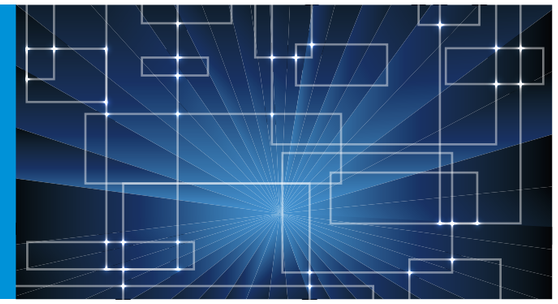
Residential »

①
② ③

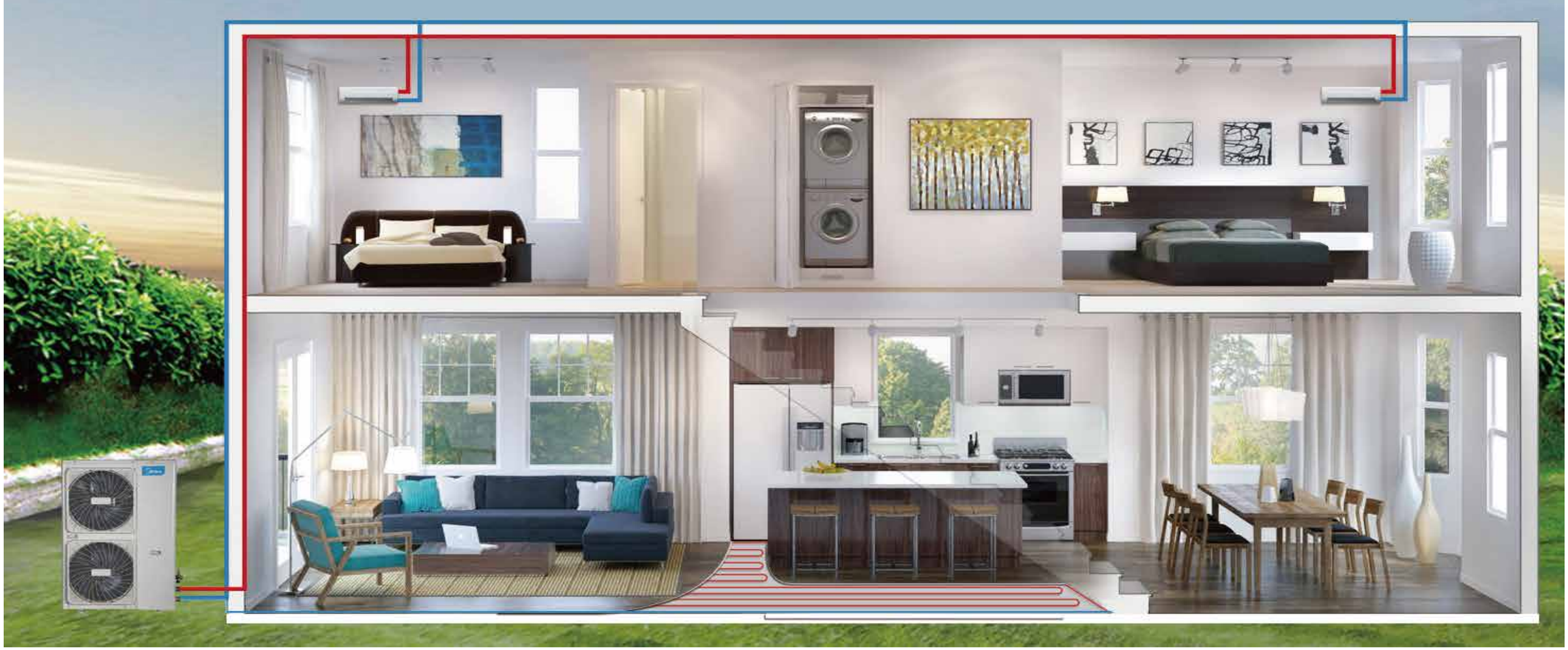
① Vanke Estate（Rancho Santa Fe Villas）
② Al Sila'a Emirati Housing Development（448 Villas）
③ Agile Estate（Clear Water Bay）

INVERTER

Contents



Aqua Mini Chiller



Aqua Mini Chiller

Midea DC Inverter Air-cooled Mini Chiller has unitary structure design and hydraulic module is built in the outdoor unit. It is air-cooled water heat pump chiller so there is no need of cooling water tower at the condensing side.

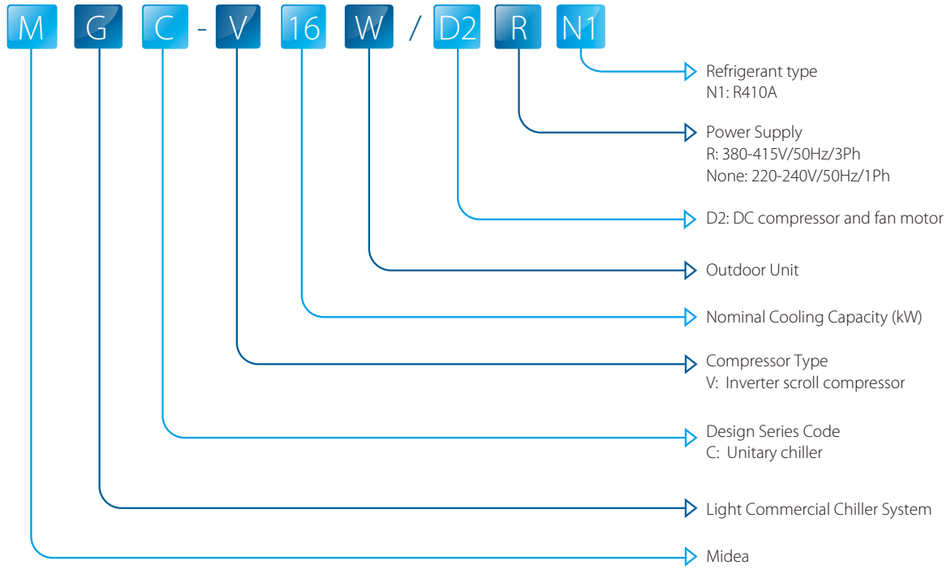
DC inverter Mini chillers' cooling capacity range is from 5kW to 18kW and it can freely combine with fan coil units & floor heating. These units are designed for residential applications or light commercial applications that require cold or hot water.

They are silent and compact units, easy to install and maintain. All units' energy efficiency at part load is A^+ rated. Their high energy efficiency and high reliability ensure low running cost. So they are widely applied in apartments, villas, small business office buildings as well as restaurants, etc.

Product Lineup

Capacity	5	7	10	12	14	16	18
Appearance / Power Supply							
220~240V-1Ph-50Hz	●	●	●	●			
380~415V-3Ph-50Hz				●	●	●	
208~230V-1Ph-60Hz			●				●

Nomenclature



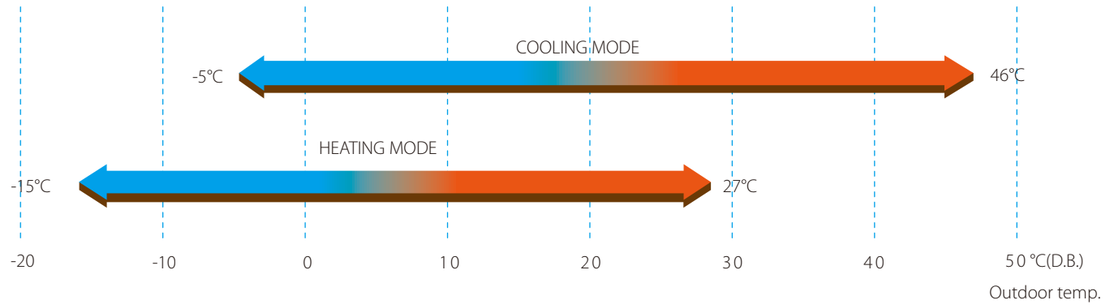
Aqua Mini Chiller

Features

Wide application range »

- Nine models with cooling capacities from 5kW to 18kW and heating capacities from 5.5kW to 18.5kW. Multiple power supply options.
- Freely combine with fan coil units and floor coils. Home owners may choose the best types according to their design taste (for interior) or functional needs.

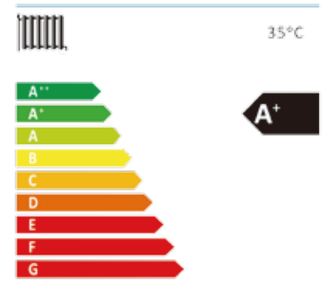
- Wide operation temperature range



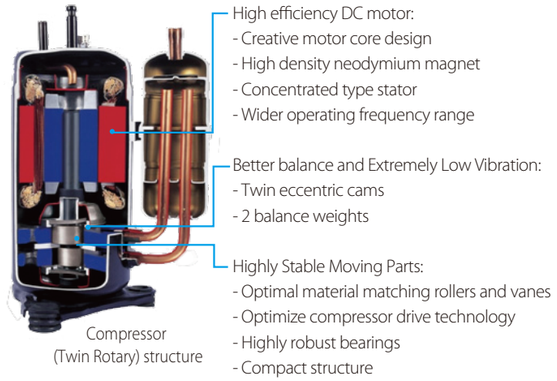
- Wide range of outlet water temperature
  The water outlet temperature is 4~55℃.

A+ rated energy efficiency at part load »

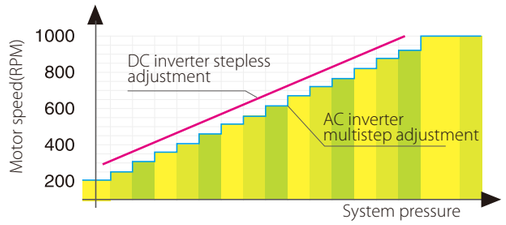
The DC inverter chiller integrates the latest technological innovations and ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the limiting the impact on the environment.



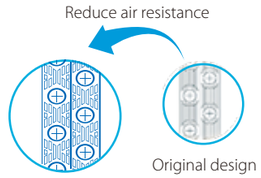
- DC inverter compressor
  Twin rotary DC inverter compressor is used. The output of the outdoor unit can be adjusted precisely according to the energy demanded.

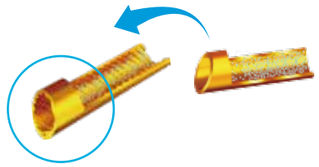


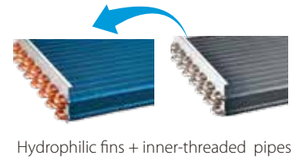
- DC fan motor
  High efficiency DC fan motor saved power up to 50%.



- High performance heat exchanger



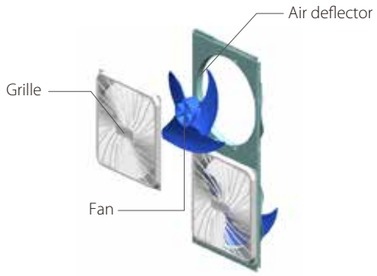


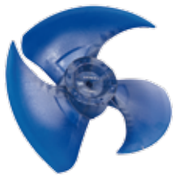


The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance.
Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.
The specially coated blue fins enhance durability and protect against corrosion from air, water and other corrosive agents, assures a longer coil service life.

Advanced technology »

- DC inverter technology, optimally designed fan shape and air discharge grille ensure low sound values.

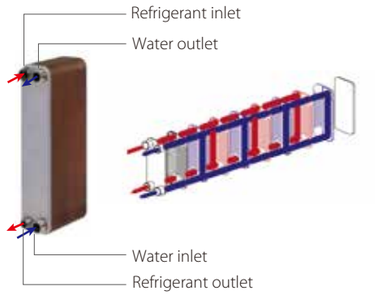




Powerful Large Propeller

Newly Designed Fan Guard

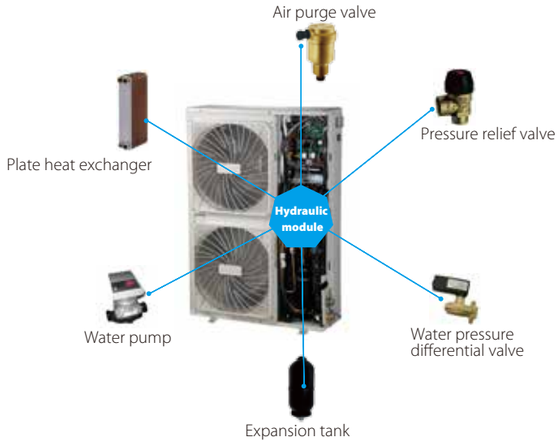
- EXV is used for stable and accurate gas flow control.
- High efficiency plate heat exchanger
  Plate heat exchanger uses metal plates to transfer heat between refrigerant and water. The fluids are exposed to a much larger surface area because the fluids spread out over the plates, so both heat transfer efficiency and heat exchanger speed are greatly improved.
  Multi protections including voltage protection, current protection, anti-freezing protection and water flow protection ensure system safety running.



- High efficiency water pump
  The water pump used is compliance with Erp directive, which is A degrade efficiency standard.

Easy installation »

- Compact structure design and leak-tight refrigerant circuit save you much installation labor.
- The chillers are equipped with a hydronic module integrated into the unit chassis, limiting the installation to straight-forward operations like connection of the power supply, the water supply and the air distribution FCUs.
- The units are equipped with axial fans so they can be installed directly outdoors.



Easy control »

- Remote ON/OFF and remote cool/heat functions.

- Controller built-in in unit panel used to perform all related operations as the user interface as well as fast diagnosis of possible incidents and their history.

- ON/OFF & Mode selection
- Temperature adjust
- Timer setting
- Fast diagnosis

- Optional wired controller for easy operation.
  - Touch key operation
  - LCD displays operation parameters
  - Multiple timers
  - Real-time clock

Note: When the wired controller is connected, the built-in controller is only for display, check and diagnosis functions.

Specifications

220~240V-1Ph-50Hz

Model			MGC-V5W/D2N1	MGC-V7W/D2N1	MGC-V10W/D2N1	MGC-V12W/D2N1
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Cooling[1]	Capacity	kW	5.0(1.9~5.8)	7.0(2.1~7.8)	10.0(2.9~10.5)	11.2(3.1~12.0)
	Rated input	W	1,550	2,250	2,950	3,500
	Rated current	A	6.8	9.9	13.0	15.4
	EER		3.23	3.11	3.39	3.20
Cooling[2]	Capacity	kW	5.6	8.0	10.6	12.2
	Ratedinput	W	1,150	1,850	2,300	2,650
	EER		4.87	4.32	4.24	4.60
	SEER		5.83	6.07	5.71	6.37
Heating[3]	Capacity	kW	6.2(2.1~7.0)	8.0(2.3~9.0)	11.0(3.2~12.0)	12.3(3.3~13.2)
	Rated input	W	1,900	2,500	3,140	3,780
	Rated current	A	8.3	11.0	13.8	16.6
	COP		3.26	3.20	3.50	3.25
Heating[4]	Capacity	kW	6.2	8.6	11.5	13.0
	Rated input	W	1,350	2,100	2,650	2,920
	COP		4.60	4.10	4.34	4.45
	SCOP		3.55	3.46	3.34	3.46
Seasonal space heating energy efficiency (ηs)			138.9%	135.3%	130.7%	135.4%
Seasonal space heating energy efficiency class			A+	A+	A+	A+
Max. input current		A	14.6	15.6	25.0	26.0
Compressor	Type		Rotary	Rotary	Rotary	Rotary
Outdoor fan	Motor type		DC Motor	DC Motor	DC Motor	DC Mo&tor
	Air flow	m^3/h	5,100	5,100	7,000	7,000
Air heat exchanger	Type		Fin-coil	Fin-coil	Fin-coil	Fin-coil
Water heat exchanger	Type		Plate	Plate	Plate	Plate
	Water volume	L	0.53	0.53	0.7	0.78
	Water flow	m^3/h	0.86	1.20	1.72	1.92
	Water pressure drop	kPa	15	15	18	18
Water pump	Max. pump head	m	5.5	5.5	7.5	7.5
	Max. water volume	m^3/h	4	4	4	4
Expansion tank volume		L	2	2	3	3
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charged volume	kg	2.5	2.5	2.8	2.8
Throttle type			Electronic expansion valve			
Sound power level[5]		dB(A)	63	66	68	68
Sound pressurer level		dB(A)	55	58	60	60
Unit net dimension (WxHxD)		mm	990x966x354	990x966x354	970x1,327x400	970x1,327x400
Packing dimension (WxHxD)		mm	1,120x1,100x435	1,120x1,100x435	1,082x1,456x435	1,082x1,456x435
Net/ Gross weight		kg	81/91	81/91	110/121	110/121
The Max. and Min. wate rinlet pressure[6]		kPa	500/150	500/150	500/150	500/150
Pipe connections	Water inlet/outlet	inch	1''	1''	1-1/4"	1-1/4"
Controller			Electronic controller (standard), wired controller (optional)			
Ambient temperature range	Cooling	℃	-5~46	-5~46	-5~46	-5~46
	Heating	℃	-15-27	-15-27	-15-27	-15-27
Water outlet temperature range	Cooling	℃	4~20	4~20	4~20	4~20
	Heating	℃	30~55	30~55	30~55	30~55

1.Condenser air in 35℃ DB. Evaporator water in/ out 12/7℃.
2.Condenser air in 35℃ DB. Evaporator water in/ out 23/18℃.
3.Evaporator air in 7℃ DB, 85% R.H., Condenser water in/ out 40/45℃.
4.Evaporator air in 7℃ DB, 85% R.H., Condenser water in/ out 30/35℃.
5.At 1m in open field fan side (sound pressure).
6.The maximum and minimum operating pressure values refer to the activation of the pressure switches.
7.The above data test reference standard EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

380~415V-3Ph-50Hz

Model			MGC-V12W/D2RN1	MGC-V14W/D2RN1	MGC-V16W/D2RN1
Power supply		V/Ph/Hz	380-415/ 3/50	380-415/ 3/50	380-415/ 3/50
Cooling[1]	Capacity	kW	11.2(3.1~12.0)	12.5(3.3~14.0)	14.5(3.5~15.5)
	Rated input	W	3,380	3,900	4,700
	Rated current	A	5.5	6.4	7.7
	EER		3.31	3.20	3.10
Cooling[2]	Capacity	kW	12.2	14.2	15.6
	Rated input	W	2,600	3,100	3,600
	EER		4.70	4.58	4.33
	SEER		6.18	6.69	6.78
Heating[3]	Capacity	kW	12.3(3.3~13.2)	13.8(3.5~15.4)	16.0(3.7~17.0)
	Rated input	W	3,720	4,250	4,850
	Rated current	A	6.1	7.0	8.0
	COP		3.31	3.25	3.30
Heating[4]	Capacity	kW	13.0	15.1	16.5
	Rated input	W	2,850	3,350	3,920
	COP		4.56	4.51	4.21
	SCOP		3.66	3.78	3.39
Seasonal space heating energy efficiency (ηs)			143.5%	148.3%	132.6%
Seasonal space heating energy efficiency class			A+	A+	A+
Max. input current		A	8.9	9.6	10.1
Compressor	Type		Rotary	Rotary	Rotary
Outdoor fan	Motor type		DC Motor	DC Motor	DC Motor
	Air flow	m^3/h	7,000	7,000	7,000
Air heat exchanger	Type		Fin-coil	Fin-coil	Fin-coil
Water heat exchanger	Type		Plate	Plate	Plate
	Water volume	L	0.78	0.78	1.06
	Water flow	m^3/h	1.92	2.15	2.49
	Water pressure drop	kPa	18	18	19
Water pump	Max. pump head	m	7.5	7.5	7.5
	Max. water volume	m^3/h	4	4	4
Expansion tank volume		L	3	3	3
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	kg	2.8	2.9	3.2
Throttle type			Electronic expansion valve		
Sound power level		dB(A)	68	70	72
Sound pressurer level[5]		dB(A)	60	62	64
Unit net dimension (WxHxD)		mm	970x1,327x400	970x1,327x400	970x1,327x400
Packing dimension (WxHxD)		mm	1,082x1,456x435	1,082x1,456x435	1,082x1,456x435
Net/ Gross weight		kg	110/121	111/122	111/122
The Max. and Min. wate rinlet pressure[6]		kPa	500/150	500/150	500/150
Pipe connections	Water inlet/outlet	inch	1-1/4"	1-1/4"	1-1/4"
Controller			Electronic controller (standard), wired controller (optional)		
Ambient temperature range	Cooling	℃	-5~46	-5~46	-5~46
	Heating	℃	-15-27	-15-27	-15-27
Water outlet temperature range	Cooling	℃	4~20	4~20	4~20
	Heating	℃	30~55	30~55	30~55

1.Condenser air in 35℃ DB. Evaporator water in/ out 12/7℃.
2.Condenser air in 35℃ DB. Evaporator water in/ out 23/18℃.
3.Evaporator air in 7℃ DB, 85% R.H., Condenser water in/ out 40/45℃.
4.Evaporator air in 7℃ DB, 85% R.H., Condenser water in/ out 30/35℃.
5.At 1m in open field fan side (sound pressure).
6.The maximum and minimum operating pressure values refer to the activation of the pressure switches.
7.The above data test reference standard EN14511:2013; EN14825:2013; EN50564:2011; EN12102:2011; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

Aqua Mini Chiller

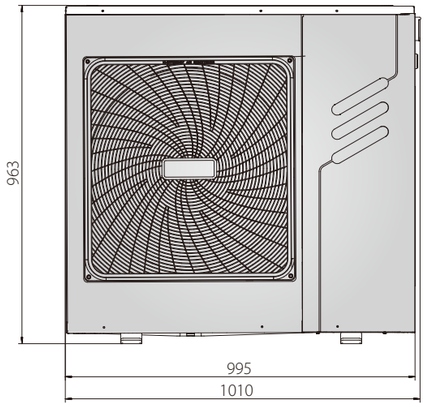
208~230V-1Ph-60Hz

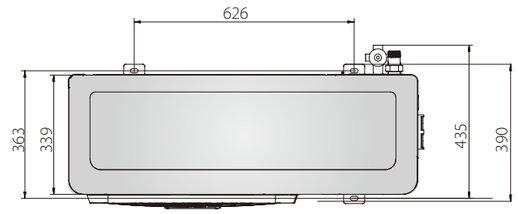
Model			MGC-V10W/D2VN1	MGC-18W/D2VN1
Power supply		V/Ph/Hz	208-230/1/60	208-230/1/60
Cooling[1]	Capacity	kBtu/h	36.0(10.0~37.0)	58.0(13.0~62.0)
		kW	10.0(2.9~10.5)	17.0(3.8~18.0)
	Input	W	3.110	5.600
	EER		3.39	3.1
Heating[2]	Capacity	kBtu/h	38.0(11.0 ~41.0)	63.0(14.0~65.0)
		kW	11.0(3.2~12.0)	18.5(4.0~19.0)
	Input	W	3.140	5.780
	COP		3.5	3.2
Max. input current		A	8.9	9.6
Compressor	Type		Rotary	Rotary
Outdoor fan	Motor type		DC Motor	DC Motor
	Air flow	CFM(m^3/h)	4,120(7,000)	4,120(7,000)
Air heat exchanger	Type		Fin-coil	Fin-coil
Water heat exchanger	Type		Plate	Plate
	Water volume	L	0.7	1.06
	Water flow	CFM(m^3/h)	1.01(1.72)	1.72(2.92)
	Water pressure drop	kPa	18	23
Water pump	Max. pump head	m	7.5	7.5
	Max. water volume	m^3/h	4	4
Expansion tank volume		L	3	3
Refrigerant	Type		R410A	R410A
	Charged volume	lbs/kg	6.2/2.8	7.5/3.4
Throttle type			Electronic expansion valve	
Sound pressurer level[3]		dB(A)	60	62
Unit net dimension (WxHxD)		inch	38-3/16x52-1/4x31-1/2	38-3/16x52-1/4x31-1/2
		mm	970x1,327x400	970x1,327x400
Packing dimension (WxHxD)		inch	42-19/32x57-21/64x17-1/8	42-19/32x57-21/64x17-1/8
		mm	1,082x1,456x435	1,082x1,456x435
Net/ Gross weight		lbs	243/267	247/271
		kg	110/121	112/123
The Max. and Min. wate rinlet pressure[4]		kPa	500/150	500/150
Pipe connections	Water inlet/outlet	inch	1-1/4"	1-1/4"
Controller			Electronic controller (standard), wired controller (optional)	
Ambient temperature range	Cooling	℃	-5~46	-5~46
	Heating	℃	-15-27	-15-27
Water outlet temperature range	Cooling	℃	4~20	4~20
	Heating	℃	30~55	30~55

1.Condenser air in 35℃ DB. Evaporator water in/ out 12/7℃.
2.Evaporator air in 7℃ DB, 85% R.H., Condenser water in/ out 40/45℃.
3.At 1m in open field fan side (sound pressure).
4.The maximum and minimum operating pressure values refer to the activation of the pressure switches.

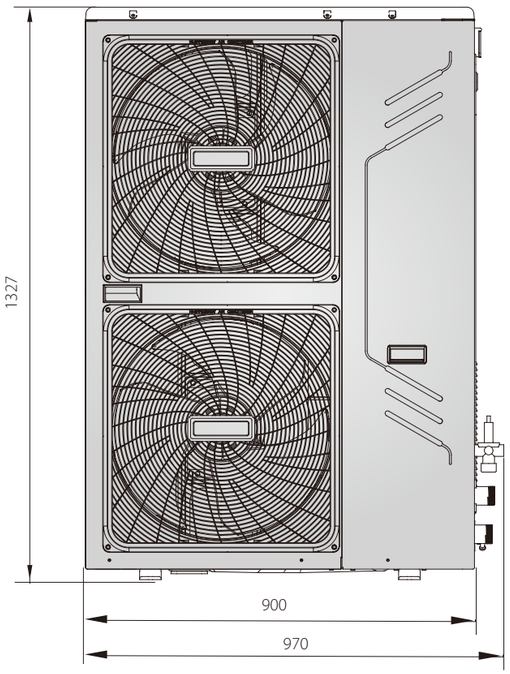
Unit Dimensions

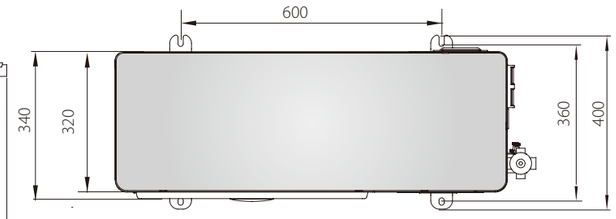
5/7kW »





10~18kW »



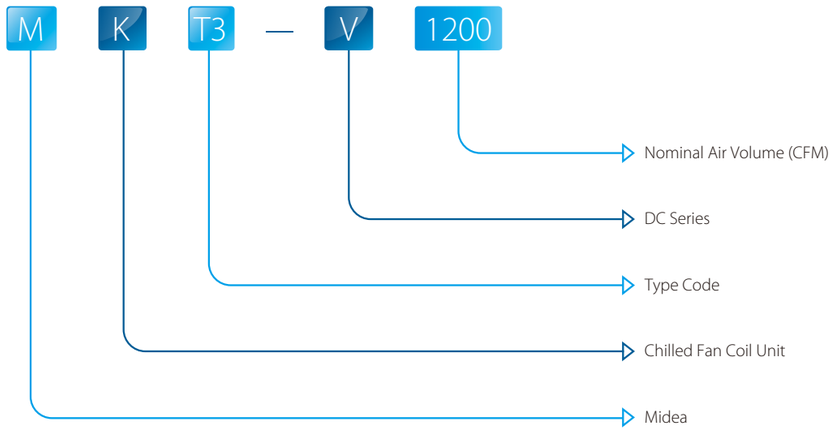


Fan Coil Units

Midea DC Fan Coil Units operate in high efficiency and low sound level thanks to the DC brushless fan motor.

It contains cassette units, ceiling units with or without cabinet, floor standing units, wall-mounted units and duct units. The air volume ranges from 150CFM to 1200CFM. It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.

Nomenclature



Fan Coil Units

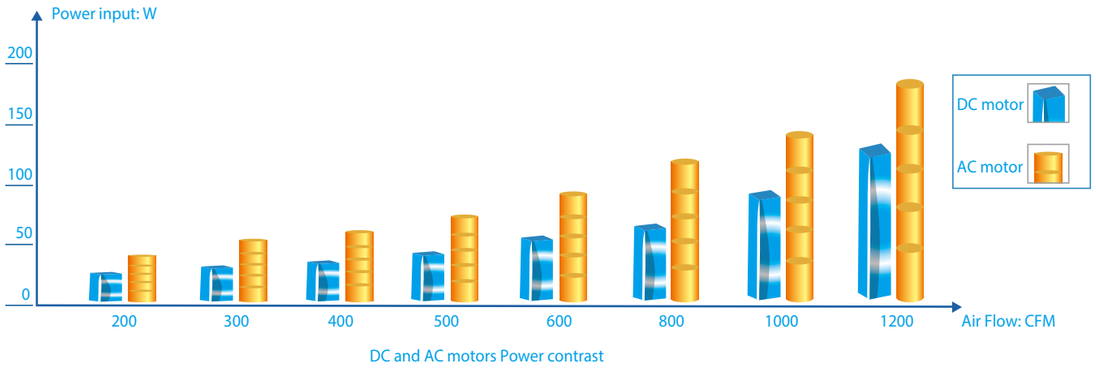
Advantage of Fan Coil Units with *DC Brushless Fan Motor*

The DC fan coil units are the new energy saving products improved with advanced DC driven technology. The DC fan coil 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.

DC driven motor

Energy Efficiency, Comply with CE Regulation »

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



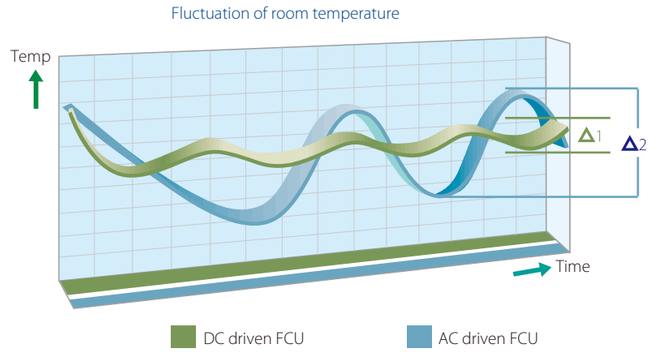
DC and AC motors Power contrast

Quiet Operation »

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

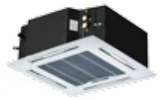
Constant Level of Air Temperature and Humidity »

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



Versatile Selection »

Midea DC Fan Coil Units contain cassette units, ceiling units with or without cabinet, floor standing units, wall-mounted units and duct units. The air volume ranges from 150CFM to 1200CFM. It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.



Cassette unit

Wall-mounted unit

Duct unit

Floor standing unit

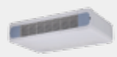
Ceiling & floor unit with cabinet

Ceiling & floor unit without cabinet

Fan Coil Units

Product Lineup

2-Pipe FCUs

Air volume (CFM)		150	200	250	300	400	450	500		600	750	800	850	900	950	1000	1200	1500
4-way cassette										■	■		■		■		■	■
Compact 4-way cassette					■	■		■										
Duct			■		■	■		■		■		■				■	■	
Wall mounted				■	■	■		■		■								
Ceiling & floor		■		■	■	■	■	■		■		■		■				

4-Pipe FCUs

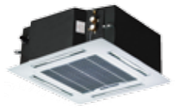
Air volume (CFM)		300	400	500	600	750	850	950		1200	1500
4-way cassette					■	■	■	■		■	■
Compact 4-way cassette		■	■	■							

Note:
The standard power supply for all fan coil units is 220V-240V/50Hz; 208-230V/60Hz can be customized for all fan coil units.

Fan Coil Units

Cassette Series

4-way Cassette



2-pipe

4-pipe

Compact 4-way Cassette

2-pipe

4-pipe

Various Selections »

- Versions for 2/4 pipe systems.
- Versions for compact/normal size.

Stylish Panel with Large Airflow Outlet »

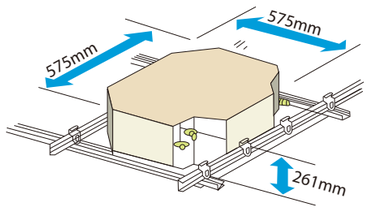
- 4-way air supply panel is standard for 4-way cassette.
- 360°air supply panel is standard for compact 4-way cassette.

4-way panel

360°panel

Compact Design, Easy Installation »

- For Compact Four-way Cassette: 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.



High Efficiency and Low Sound Operation »

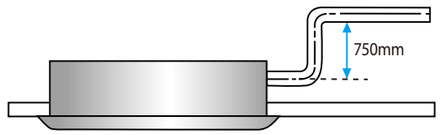
Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

Various Accessories Selections »

- Safe factory-installed electric heater is optional.
- Extended drainage pan for better ceiling protection is optional.

High-lift Drain Pump »

Standard built-in drain pump with 750mm pump head for normal size and 500mm for compact size.



Fresh Air Intake »

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

2-Pipe 4-Way Cassette

Model			MKA-V600R	MKA-V750R	MKA-V850R
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1133/793/567	1255/879/628	1441/1009/721
		CFM	667/467/334	739/517/370	848/594/424
Cooling	Capacity (H/M/L)	kW	5.58/4.35/3.52	5.77/4.5/3.63	6.84/5.33/4.3
	Water flow rate	l/h	960	992	1176
	Water pressure drop	kPa	21	28	27
Heating	Capacity (H/M/L)	kW	7.72/5.92/4.5	8.15/6.12/4.65	9.37/7.25/5.5
	Water pressure drop	kPa	22	26	23
Power input (H)		W	42	50	64
Sound pressure level (H/M/L)		dB(A)	42/33/26	45/37/28	46/36/28
Fan motor	Type		DC motor		
	Quantity		1		
Fan	Type		Centrifugal, forward-curved blades		
	Quantity		1		
Coil	Row		2		
	Max. working pressure	MPa	1.6		
	Diameter	mm	Φ7		
Panel	Net dimensions (W×H×D)	mm	950×45×950		
	Packing size (W×H×D)	mm	1035×90×1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (W×H×D)	mm	840×230×840	840×230×840	840×300×840
	Packing size (W×H×D)	mm	900×260×900	900×260×900	900×330×900
	Net weight	kg	23	23	27
	Gross weight	kg	28	28	33
Pipe connections	Water inlet/outlet pipe	Inch	RC3/4		
	Drain pipe	mm	ODΦ32		

Model			MKA-V950R	MKA-V1200R	MKA-V1500R
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1494/1046/747	1596/1117/798	1850/1295/925
		CFM	879/616/440	940/657/470	1089/762/544
Cooling	Capacity (H/M/L)	kW	6.99/5.27/4.16	7.01/5.32/4.34	10.64/8.09/6.6
	Water flow rate	l/h	1202	1206	1830
	Water pressure drop	kPa	25	23	36
Heating	Capacity (H/M/L)	kW	9.52/7.35/5.32	9.62/7.43/5.55	14.38/11.29/8.44
	Water pressure drop	kPa	20	20	34
Power input (H)		W	71	90	124
Sound pressure level (H/M/L)		dB(A)	47/37/31	48/39/32	50/40/33
Fan motor	Type		DC motor		
	Quantity		1		
Fan	Type		Centrifugal, forward-curved blades		
	Quantity		1		
Coil	Row		2	2	3
	Max. working pressure	MPa	1.6		
	Diameter	mm	Φ7		
Panel	Net dimensions (W×H×D)	mm	950×45×950		
	Packing size (W×H×D)	mm	1035×90×1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (W×H×D)	mm	840×300×840		
	Packing size (W×H×D)	mm	900×330×900		
	Net weight	kg	27	27	29.5
	Gross weight	kg	33	33	34.5
Pipe connections	Water inlet/outlet pipe	Inch	RC3/4		
	Drain pipe	mm	ODΦ32		

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
3. Noise is tested in a semi-anechoic test room.

Fan Coil Units

4-Pipe 4-Way Cassette

Model			MKA-V600F	MKA-V750F	MKA-V850F
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1187/831/594	1233/863/617	1436/1005/718
		CFM	700/489/350	726/508/363	845/592/423
Cooling	Capacity (H/M/L)	kW	4.94/3.77/3.13	5.18/3.94/3.26	5.29/4.02/3.33
	Water flow rate	l/h	850	891	910
	Water pressure drop	kPa	15	12	12
Heating	Capacity (H/M/L)	kW	7.14/5.42/4.5	7.41/5.64/4.67	7.88/5.99/4.97
	Water flow rate	l/h	614	637	678
	Water pressure drop	kPa	40	42	45
Power input (H)		W	47	50	64
Sound pressure level (H/M/L)		dB(A)	40/31/25	42/34/26	43/34/27
Fan motor	Type		DC motor		
	Quantity		1		
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1		
Coil	Row		2		
	Max. working pressure	MPa	1.6		
	Diameter	mm	Φ7		
Panel	Net dimensions (W×H×D)	mm	950×45×950		
	Packing size (W×H×D)	mm	1035×90×1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (W×H×D)	mm	840×300×840		
	Packing size (W×H×D)	mm	900×330×900		
	Net weight	kg	27.5		
	Gross weight	kg	33.5		
Pipe connections	Water inlet/outlet pipe	Inch	Cold water: RC3/4; Hot water: RC1/2		
	Drain pipe	mm	ODΦ32		

Model			MKA-V950F	MKA-V1200F	MKA-V1500F
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	1526/1068/763	1768/1238/884	1852/1323/945
		CFM	898/629/449	1041/729/520	1112/779/556
Cooling	Capacity (H/M/L)	kW	5.61/4.26/3.53	9.02/6.85/5.68	9.16/7.32/6.07
	Water flow rate	l/h	965	1551	1576
	Water pressure drop	kPa	15	70	72
Heating	Capacity (H/M/L)	kW	8.24/6.26/5.19	11.31/8.59/7.12	11.88/9.28/7.69
	Water flow rate	l/h	709	973	1022
	Water pressure drop	kPa	49	63	71
Power input (H)		W	71	106	124
Sound pressure level (H/M/L)		dB(A)	45/35/29	46/37/32	48/39/33
Fan motor	Type		DC motor		
	Quantity		1		
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1		
Coil	Row		2	3	3
	Max. working pressure	MPa	1.6		
	Diameter	mm	Φ7		
Panel	Net dimensions (W×H×D)	mm	950×45×950		
	Packing size (W×H×D)	mm	1035×90×1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (W×H×D)	mm	840×300×840		
	Packing size (W×H×D)	mm	900×330×900		
	Net weight	kg	27.5	30	30
	Gross weight	kg	32.4	35	35
Pipe connections	Water inlet/outlet pipe	Inch	Cold water: RC3/4; Hot water: RC1/2		
	Drain pipe	mm	ODΦ32		

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: entering water 70°C, temperature drop 10°C DB, entering air temperature 20°C DB.
3. Noise is tested in a semi-anechoic test room.

2-Pipe Compact 4-Way Cassette

Model			MKD-V300	MKD-V400	MKD-V500
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	560/392/280	717/502/359	850/730/600
		CFM	330/231/165	422/296/211	500/430/350
Cooling	Capacity (H/M/L)	kW	3.02/2.3/1.75	3.93/3.07/2.48	4.5/3.6/3.06
	Water flow rate	l/h	519	676	774
	Water pressure drop	kPa	7.4	12	16
Heating	Capacity (H/M/L)	kW	4.1/3/2.22	5.34/4/3.15	6/4.76/4.07
	Water pressure drop	kPa	8	10.6	15
Power input (H)		W	22.7	27	32
Sound pressure level (H/M/L)		dB(A)	34/29/21	40/36/28	43/37/30
Fan motor	Type		DC motor		
	Quantity		1		
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1		
Coil	Row		2		
	Max. working pressure	MPa	1.6		
	Diameter	mm	Φ7		
Panel	Net dimensions (W×H×D)	mm	647×50×647		
	Packing size (W×H×D)	mm	715×123×715		
	Net weight	kg	2.5		
	Gross weight	kg	4.5		
Body	Net dimensions (W×H×D)	mm	575×261×575		
	Packing size (W×H×D)	mm	675×320×675		
	Net weight	kg	16.5		
	Gross weight	kg	22.5		
Pipe connections	Water inlet/outlet pipe	Inch	G3/4		
	Drain pipe	mm	ODΦ25		

4-Pipe Compact 4-Way Cassette

Model			MKD-V300F	MKD-V400F	MKD-V500F
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m^3/h	560/397/284	717/502/359	785/550/393
		CFM	334/234/167	422/286/211	462/324/231
Cooling	Capacity (H/M/L)	kW	2.39/1.82/1.46	2.88/2.19/1.8	3.24/2.46/2.04
	Water flow rate	l/h	411	495	558
	Water pressure drop	kPa	19.1	14.5	20.9
Heating	Capacity (H/M/L)	kW	3.92/2.98/2.47	4.73/3.6/2.98	4.93/3.75/3.11
	Water flow rate	l/h	337	407	424
	Water pressure drop	kPa	20.5	29.1	34.5
Power input (H)		W	15	27	39
Sound pressure level (H/M/L)		dB(A)	34/26/20	36/28/22	40/31/25
Fan motor	Type		DC motor		
	Quantity		1		
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1		
Coil	Row		2		
	Max. working pressure	MPa	1.6		
	Diameter	mm	Φ7		
Panel	Net dimensions (W×H×D)	mm	647×50×647		
	Packing size (W×H×D)	mm	715×123×715		
	Net weight	kg	2.5		
	Gross weight	kg	4.5		
Body	Net dimensions (W×H×D)	mm	575×261×575		
	Packing size (W×H×D)	mm	675×320×675		
	Net weight	kg	16.7		
	Gross weight	kg	22.7		
Pipe connections	Water inlet/outlet pipe	Inch	Cold water: G3/4; Hot water: G1/2		
	Drain pipe	mm	ODΦ25		

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: 2 pipe: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
   Heating conditions: 4 pipe: entering water 70°C, temperature drop 10°C DB, entering air temperature 20°C DB.
3. Noise is tested in a semi-anechoic test room.

Duct Series

Various Selections »

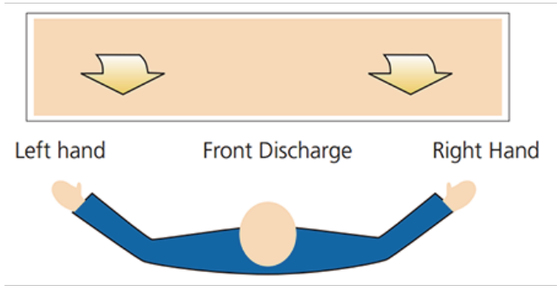
- Versions for normal/high temperature different systems.
- 2, 3 or 4 row coils for 2-pipe systems
- Large range of available static pressure.

High Efficiency and Low Sound Operation »

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

Flexible Installation »

Left and right hand piping connections are optional, flexible installation.



Standard Return Air Plenum and Filter »

Standard return air plenum and filter guarantees clean air supply and stable air flow rate.

Fresh Air Intake »

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

2-Row Duct

Model			MKT2-V200	MKT2-V300	MKT2-V400	MKT2-V500
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	340/255/170	510/385/255	680/510/340	850/640/425
		CFM	200/150/100	300/225/150	400/300/200	500/375/250
Standard external static pressure		Pa	12Pa (default);30/50Pa can be set through dial switch on PCB			
Cooling	Capacity (H/M/L)	kW	2/1.74/1.52	2.7/2.31/2.03	3.6/3.11/2.66	4.4/3.74/3.25
	Water flow rate	l/h	344	464	619	757
	Water pressure drop	kPa	6.1	11.4	20.4	20.1
Heating	Capacity (H/M/L)	kW	3.2/2.75/2.37	4.3/3.74/3.23	5.4/4.64/4.05	6.8/5.78/5.07
	Water pressure drop	kPa	5.6	9.7	17.7	18.9
Power input (H)		W	20	26	38	48
Sound pressure level	12Pa (H/M/L)	dB(A)	35/32/25	36/33/26	37/34/27	38/35/28
	30Pa (H/M/L)	dB(A)	40/36/29	41/37/30	42/38/31	43/39/32
	50Pa (H/M/L)	dB(A)	43/39/31	44/40/32	45/41/33	46/42/34
Fan motor	Type		DC motor			
	Quantity		1			
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	2	2	2
Coil	Row		2			
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Net dimensions (W×H×D)		mm	741×241×522	841×241×522	941×241×522	941×241×522
Packing size (W×H×D)		mm	790×260×550	890×260×550	990×260×550	990×260×550
Net weight		kg	16.5	18.5	20	20
Gross weight		kg	19	21.4	23.2	23.2
Water inlet/outlet pipe		Inch	RC3/4			
Drain pipe		mm	ODΦ24			

Model			MKT2-V600	MKT2-V800	MKT2-V1000	MKT2-V1200
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1020/765/510	1360/1020/680	1700/1275/850	2040/1530/1020
		CFM	600/450/300	800/600/400	1000/750/500	1200/900/600
Standard external static pressure		Pa	12Pa (default);30/50Pa can be set through dial switch on PCB			
Cooling	Capacity (H/M/L)	kW	5.5/4.58/4.09	7.5/6.33/5.68	8.9/7.61/6.41	10.8/9.13/7.93
	Water flow rate	l/h	946	1290	1531	1858
	Water pressure drop	kPa	13.9	12.4	21.4	28.1
Heating	Capacity (H/M/L)	kW	8.1/6.77/5.92	11/9.48/8.25	13.5/11.72/10.03	16.5/14.05/12.24
	Water pressure drop	kPa	11.6	10.6	18.4	22.8
Power input (H)		W	54	74	99	135
Sound pressure level	12Pa (H/M/L)	dB(A)	39/36/29	40/37/30	42/39/32	44/40/33
	30Pa (H/M/L)	dB(A)	44/40/33	45/41/34	46/42/34	47/43/34
	50Pa (H/M/L)	dB(A)	47/43/35	48/44/36	50/45/37	50/46/38
Fan motor	Type		DC motor			
	Quantity		1	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	4	4	4
Coil	Row		2			
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Net dimensions (W×H×D)		mm	1161×241×522	1461×241×522	1566×241×522	1856×241×522
Packing size (W×H×D)		mm	1210×260×550	1510×260×550	1615×260×550	1905×260×550
Net weight		kg	22.2	31.4	32.5	37.5
Gross weight		kg	26	35.8	37.2	42.8
Water inlet/outlet pipe		Inch	RC3/4			
Drain pipe		mm	ODΦ24			

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Air flow rate at 0Pa ESP.
3. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
4. Noise is tested in a semi-anechoic test room.

3-Row Duct

Model			MKT3-V200	MKT3-V300	MKT3-V400	MKT3-V500
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	340/255/170	510/385/255	680/510/340	850/640/425
		CFM	200/150/100	300/225/150	400/300/200	500/375/250
Standard external static pressure		Pa	12Pa (default);30/50Pa can be set through dial switch on PCB			
Cooling	Capacity (H/M/L)	kW	2.2/1.9/1.68	3.1/2.7/2.3	4/3.4/2.95	4.5/3.96/3.45
	Water flow rate	l/h	378	533	688	774
	Water pressure drop	kPa	9.4	20.6	9.7	17.5
Heating	Capacity (H/M/L)	kW	3.5/3.08/2.59	5.3/4.61/3.98	6.8/5.85/5.1	7.9/6.95/6
	Water pressure drop	kPa	8.2	16.8	11.4	14.8
Power input (H)		W	16	21	28	40
Sound pressure level	12Pa (H/M/L)	dB(A)	36/32/26	37/33/26	37/34/27	38/35/28
	30Pa (H/M/L)	dB(A)	40/36/29	41/38/30	42/38/31	43/38/32
	50Pa (H/M/L)	dB(A)	42/39/31	43/40/32	45/41/33	45/42/34
Fan motor	Type		DC motor			
	Quantity		1			
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	2	2	2
Coil	Row		3			
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Net dimensions (WxHxD)		mm	741×241×522	841×241×522	941×241×522	941×241×522
Packing size (WxHxD)		mm	790×260×550	890×260×550	990×260×550	990×260×550
Net weight		kg	16.7	19	21	21
Gross weight		kg	19.7	22	24	24
Water inlet/outlet pipe		Inch	RC3/4			
Drain pipe		mm	ODΦ24			

Model			MKT3-V600	MKT3-V800	MKT3-V1000	MKT3-V1200
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1020/765/510	1360/1020/680	1700/1275/850	2040/1530/1020
		CFM	600/450/300	800/600/400	1000/750/500	1200/900/600
Standard external static pressure		Pa	12Pa (default);30/50Pa can be set through dial switch on PCB			
Cooling	Capacity (H/M/L)	kW	5.8/4.88/4.45	8.2/6.88/6.25	9/7.8/6.57	11/9.8/8.35
	Water flow rate	l/h	998	1410	1548	1892
	Water pressure drop	kPa	30.1	30.4	21.8	22.7
Heating	Capacity (H/M/L)	kW	9.8/8.6/7.4	13.6/11.97/10.2	15.5/14.24/12	20.1/18.27/15.43
	Water pressure drop	kPa	25	26.8	18.4	19.9
Power input (H)		W	45	60	90	110
Sound pressure level	12Pa (H/M/L)	dB(A)	39/36/29	41/37/30	42/39/32	44/40/33
	30Pa (H/M/L)	dB(A)	44/40/33	45/40/34	46/42/34	47/42/34
	50Pa (H/M/L)	dB(A)	47/43/35	47/44/36	50/45/37	50/45/38
Fan motor	Type		DC motor			
	Quantity		1	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	4	4	4
Coil	Row		3			
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Net dimensions (WxHxD)		mm	1161×241×522	1461×241×522	1566×241×522	1856×241×522
Packing size (WxHxD)		mm	1210×260×550	1510×260×550	1615×260×550	1905×260×550
Net weight		kg	23.7	33	34.7	39.2
Gross weight		kg	27.2	37.2	39.2	44.4
Water inlet/outlet pipe		Inch	RC3/4			
Drain pipe		mm	ODΦ24			

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Air flow rate at 0Pa ESP.
3. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
4. Noise is tested in a semi-anechoic test room.

4-Row Duct

Model			MKT4-V200	MKT4-V300	MKT4-V400	MKT4-V500
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	340/255/170	510/385/255	680/510/340	850/640/425
		CFM	200/150/100	300/225/150	400/300/200	500/375/250
Standard external static pressure		Pa	12Pa (default);30/50Pa can be set through dial switch on PCB			
Cooling	Capacity (H/M/L)	kW	2.5/2.16/1.87	3.3/2.85/2.47	4.4/3.72/3.22	4.8/4.18/3.64
	Water flow rate	l/h	430	568	757	826
	Water pressure drop	kPa	2	4.8	9.3	9.6
Heating	Capacity (H/M/L)	kW	4.1/3.51/3.03	5.8/5.05/4.35	7.1/6.11/5.33	8.5/7.04/6.28
	Water pressure drop	kPa	5.6	9.7	17.7	18.9
Power input (H)		W	20	26	38	48
Sound pressure level	12Pa (H/M/L)	dB(A)	37/33/27	37/33/26	38/35/27	38/35/28
	30Pa (H/M/L)	dB(A)	41/36/30	41/38/30	42/38/31	43/38/32
	50Pa (H/M/L)	dB(A)	43/39/31	43/40/32	45/42/33	46/42/34
Fan motor	Type		DC motor			
	Quantity		1			
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	2	2	2
Coil	Row		4			
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Net dimensions (WxHxD)		mm	741×241×522	841×241×522	941×241×522	941×241×522
Packing size (WxHxD)		mm	790×260×550	890×260×550	990×260×550	990×260×550
Net weight		kg	17.8	20	21.9	21.9
Gross weight		kg	20.4	22.9	25.1	25.1
Water inlet/outlet pipe		Inch	RC3/4			
Drain pipe		mm	ODΦ24			

Model			MKT4-V600	MKT4-V800	MKT4-V1000	MKT4-V1200
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	1020/765/510	1360/1020/680	1700/1275/850	2040/1530/1020
		CFM	600/450/300	800/600/400	1000/750/500	1200/900/600
Standard external static pressure		Pa	12Pa (default);30/50Pa can be set through dial switch on PCB			
Cooling	Capacity (H/M/L)	kW	6.2/5.38/4.65	8.8/7.43/6.57	9.5/8.18/7.06	11.8/9.82/8.74
	Water flow rate	l/h	1066	1514	1634	2030
	Water pressure drop	kPa	18.8	12.5	14.5	23.1
Heating	Capacity (H/M/L)	kW	10.5/9.03/7.77	14.5/12.38/10.88	16.3/13.45/12.05	20.1/16.72/14.88
	Water pressure drop	kPa	11.6	10.6	18.4	22.8
Power input (H)		W	54	74	99	135
Sound pressure level	12Pa (H/M/L)	dB(A)	39/36/29	41/37/30	42/39/32	44/40/33
	30Pa (H/M/L)	dB(A)	44/40/33	45/40/34	46/42/35	47/42/35
	50Pa (H/M/L)	dB(A)	47/43/35	47/44/36	50/45/37	50/45/38
Fan motor	Type		DC motor			
	Quantity		1	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	4	4	4
Coil	Row		4			
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Net dimensions (WxHxD)		mm	1161×241×522	1461×241×522	1566×241×522	1856×241×522
Packing size (WxHxD)		mm	1210×260×550	1510×260×550	1615×260×550	1905×260×550
Net weight		kg	25	34.8	36.4	41.9
Gross weight		kg	28.8	39.2	41.9	47.2
Water inlet/outlet pipe		Inch	RC3/4			
Drain pipe		mm	ODΦ24			

Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Air flow rate at 0Pa ESP.
3. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
4. Noise is tested in a semi-anechoic test room.

Wall Mounted

C Type Panel

S Type Panel

Stylish Panel »

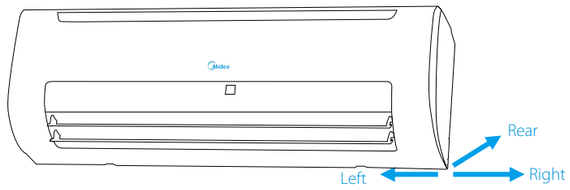
Stylish front panel blends easily within any interior décor, ideal for use in shops, restaurants or offices with no or narrow false ceilings.

High Efficiency and Low Sound Operation »

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

Convenient Installation »

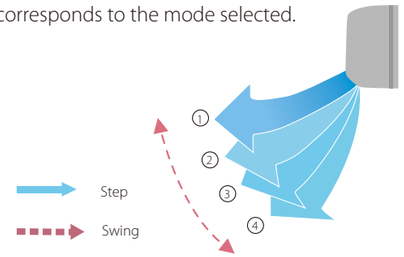
Multi-directional outlet pipe feature: left\right\rear, to meet the needs of different rooms.



Built-In 3-Way Electromagnetic Valve »

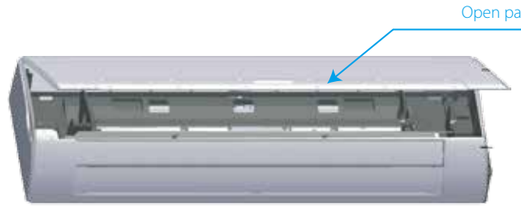
Auto Swing Louver »

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



Easy Maintenance »

Removable front panel making maintenance convenient.



Wall Mounted (C Panel)

Model			MKG-V250	MKG-V300	MKG-V400	MKG-V500	MKG-V600
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	425/410/320	510/427/349	680/550/504	850/692/586	1020/820/670
		CFM	250/241/188	300/251/205	400/324/297	500/407/345	600/483/394
Cooling	Capacity (H/M/L)	kW	2.2/2.2/1.97	2.64/2.48/2.06	3.08/2.90/2.66	4.07/3.78/3.05	4.45/3.95/3.21
	Water flow rate	l/h	378	454	530	700	765
	Water pressure drop	kPa	23.1	33.6	42	34.9	36.3
Heating	Capacity (H/M/L)	kW	3.02/2.85/2.35	3.69/2.92/2.49	4.34/3.77/3.35	5.69/4.14/3.63	6.30/5.17/4.18
	Water pressure drop	kPa	22	31.4	40	29.7	32.8
Power input (H)		W	10.7	14.3	33	28	37.5
Sound pressure level		dB(A)	30/26/23	32/28/25	36/32/29	38/34/30	40/36/31
Fan motor	Type		DC motor				
	Quantity		1				
Fan	Type		Tangential fan				
	Quantity		1				
Coil	Row		2				
	Max. working pressure	MPa	1.6				
	Diameter	mm	Φ7				
Net dimensions (W×H×D)		mm	915×290×210	915×290×210	915×290×210	1070×315×210	1070×315×210
Packing size (W×H×D)		mm	1020×385×300	1020×385×300	1020×385×300	1180×410×300	1180×410×300
Net weight		kg	12	12	12	14.7	14.8
Gross weight		kg	15.6	15.6	15.6	18.6	18.8
Water inlet/outlet pipe		Inch	G3/4				
Drain pipe		mm	ODΦ20				

Wall Mounted (S Panel)

Model			MKG-V250B	MKG-V300B	MKG-V400B	MKG-V500B	MKG-V600B
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	425/410/320	510/427/349	680/550/504	850/692/586	1020/820/670
		CFM	250/241/188	300/251/205	400/324/297	500/407/345	600/483/394
Cooling	Capacity (H/M/L)	kW	2.63/2.2/1.97	2.97/2.48/2.06	3.28/2.90/2.66	4.25/3.78/3.05	5.0/3.95/3.21
	Water flow rate	l/h	452	511	564	731	860
	Water pressure drop	kPa	23.1	33.6	42	34.9	36.3
Heating	Capacity (H/M/L)	kW	3.36/2.85/2.35	3.91/2.92/2.49	4.37/3.77/3.35	5.81/4.14/3.63	6.7/5.17/4.18
	Water pressure drop	kPa	22	31.4	40	29.7	32.8
Power input (H)		W	10.7	14.3	33	28	37.5
Sound pressure level		dB(A)	30/26/23	32/28/25	36/32/29	38/34/30	40/36/31
Fan motor	Type		DC motor				
	Quantity		1				
Fan	Type		Tangential fan				
	Quantity		1				
Coil	Row		2				
	Max. working pressure	MPa	1.6				
	Diameter	mm	Φ7				
Net dimensions (W×H×D)		mm	915×290×230	915×290×230	915×290×230	1072×315×230	1072×315×230
Packing size (W×H×D)		mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315	1180×415×315
Net weight		kg	12.7	12.7	12.7	15.1	14.9
Gross weight		kg	17.3	17.6	16.3	19	18.6
Water inlet/outlet pipe		Inch	G3/4				
Drain pipe		mm	ODΦ20				

Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
3. Noise is tested in a semi-anechoic test room.

Fan Coil Units

Ceiling & Floor

Concealed Type
H3 Series

Exposed Type
(air return from side)
H4 Series

Exposed Type
(air return from bottom)
H5 Series

High Efficiency and Low Sound Operation »

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

Flexible Installation »

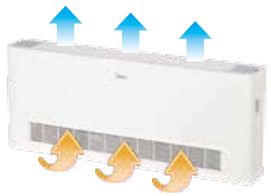
- Cabinet and concealed versions meet various installation requirements.
- Horizontal or vertical installation.

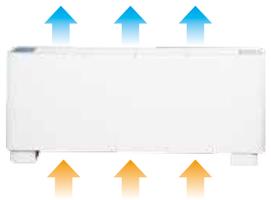
Floor installation

Ceiling installation

Flexible Air Return Type »

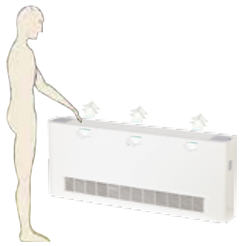
Air return can be from side or bottom.





Movable Louver »

Adjustable louver for wide angle of air flow.



Ceiling & Floor

Model			MKH3-V150 MKH4-V150 MKH5-V150	MKH3-V250 MKH4-V250 MKH5-V250	MKH3-V300 MKH4-V300 MKH5-V300	MKH3-V400 MKH4-V400 MKH5-V400
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m^3/h	255/215/190	425/360/320	510/430/380	680/580/510
		CFM	150/125/110	250/210/190	300/250/220	400/340/300
Cooling	Capacity (H/M/L)	kW	1.74/1.31/1.05	1.84/1.48/1.18	2.84/2.21/1.63	3.03/2.41/1.72
	Water flow rate	l/h	299	316	488	521
	Water pressure drop	kPa	8.5	9.6	16.3	19.3
Heating	Capacity (H/M/L)	kW	2.04/1.42/1.25	2.20/1.66/1.28	3.68/2.77/1.99	3.87/2.95/2.09
	Water pressure drop	kPa	8	7.7	14.5	16.6
Power input (H)		W	12	15	26	30
Sound pressure level	H3 (H/M/L)	dB(A)	29/25/19	30/26/20	32/28/22	34/30/24
	H4 (H/M/L)	dB(A)	30/26/20	31/27/21	33/29/23	35/31/25
	H5 (H/M/L)	dB(A)	29/25/19	30/26/20	32/28/22	34/30/24
Fan motor	Type		DC motor			
	Quantity		1			
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	1	2	2
Coil	Row		3	3	2	2
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Body (H3 series)	Net dimensions (W×H×D)	mm	550×545×212	550×545×212	750×545×212	750×545×212
	Packing size (W×H×D)	mm	639×639×305	639×639×305	839×639×305	839×639×305
	Net weight	kg	17	17	20	20
	Gross weight	kg	19	19	23.5	23.5
Body (H4/H5 series)	Net dimensions (W×H×D)	mm	800×592×220	800×592×220	1000×592×220	1000×592×220
	Packing size (W×H×D)	mm	889×683×312	889×683×312	1089×683×312	1089×683×312
	Net weight	kg	24.4	24.4	28.2	28.2
	Gross weight	kg	28.4	28.4	33.2	33.2
Water inlet/outlet pipe		Inch	G3/4			
Drain pipe		mm	ODΦ16			

Model			MKH3-V450 MKH4-V450 MKH5-V450	MKH3-V500 MKH4-V500 MKH5-V500	MKH3-V600 MKH4-V600 MKH5-V600	MKH3-V800 MKH4-V800 MKH5-V800	MKH3-V900 MKH4-V900 MKH5-V900
Power supply		V/Ph/Hz	220-240/1/50				
Air flow (H/M/L)		m^3/h	765/650/570	850/720/640	1020/870/765	1360/1160/1020	1530/1300/1150
		CFM	450/380/335	500/420/375	600/510/450	800/680/600	900/760/675
Cooling	Capacity (H/M/L)	kW	4.43/3.21/2.52	4.74/3.53/2.55	5.51/3.92/2.99	5.88/4.77/3.61	6.87/5.32/4.31
	Water flow rate	l/h	762	815	948	1011	1182
	Water pressure drop	kPa	30.1	27.7	16.6	26.5	31.4
Heating	Capacity (H/M/L)	kW	5.52/3.94/2.98	5.77/4.23/3.03	7.00/5.11/3.86	8.01/6.34/4.75	9.24/6.89/5.51
	Water pressure drop	kPa	25.3	23.1	14.5	19.8	25.6
Power input (H)		W	26	32	36	64	101
Sound pressure level	H3 (H/M/L)	dB(A)	36/32/26	38/33/27	40/34/28	41/35/29	43/37/31
	H4 (H/M/L)	dB(A)	37/33/27	39/34/28	41/35/29	42/36/30	44/38/32
	H5 (H/M/L)	dB(A)	36/32/26	38/33/27	40/34/28	41/35/29	43/37/31
Fan motor	Type		DC motor				
	Quantity		1				
Fan	Type		Centrifugal, forward-curved Blades				
	Quantity		2	2	3	3	3
Coil	Row		3	3	2	2	2
	Max. working pressure	MPa	1.6				
	Diameter	mm	Φ9.52				
Body (H3 series)	Net dimensions (W×H×D)	mm	950×545×212	950×545×212	1250×545×212	1250×545×212	1250×545×212
	Packing size (W×H×D)	mm	1039×639×305	1039×639×305	1339×639×305	1339×639×305	1339×639×305
	Net weight	kg	25	25	32	32	32
	Gross weight	kg	29	29	36	36	36
Body (H4/H5 series)	Net dimensions (W×H×D)	mm	1200×592×220	1200×592×220	1500×592×220	1500×592×220	1500×592×220
	Packing size (W×H×D)	mm	1289×683×312	1289×683×312	1589×683×312	1589×683×312	1589×683×312
	Net weight	kg	34.2	34.2	40	40	40
	Gross weight	kg	39.7	39.7	45.5	45.5	45.5
Water inlet/outlet pipe		Inch	G3/4				
Drain pipe		mm	ODΦ16				

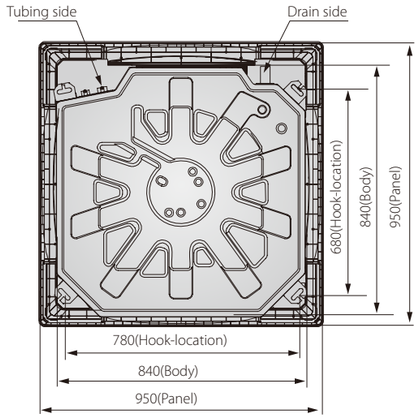
Notes:
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
   Heating conditions: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
3. Noise is tested in a semi-anechoic test room.

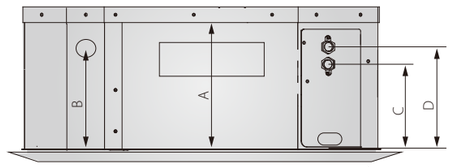
Dimensions

4-way cassette »

2-pipe 4-way cassette

Dimensions (unit:mm)

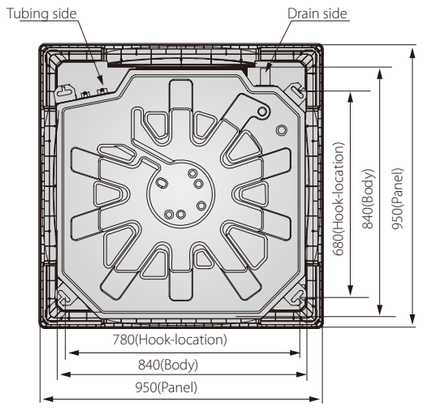


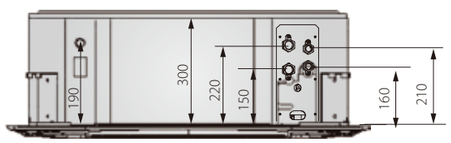


Model \ Size	A	B	C	D
MKA-V600R MKA-V750R	230	170	135	185
MKA-V950R MKA-V1200R MAK-V1500R	300	190	145	195

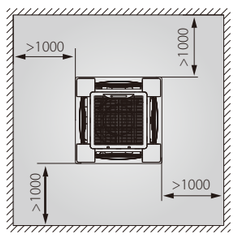
4-Pipe 4-way cassette

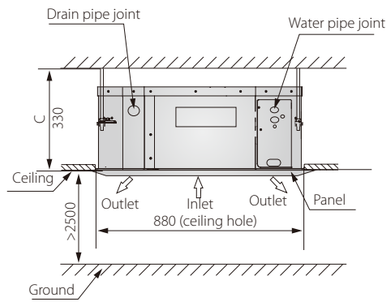
Dimensions (unit:mm)



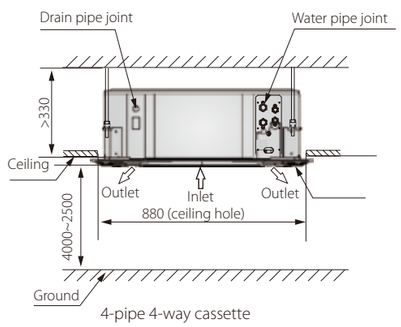


Service Spaces (unit:mm)





2-pipe 4-way cassette

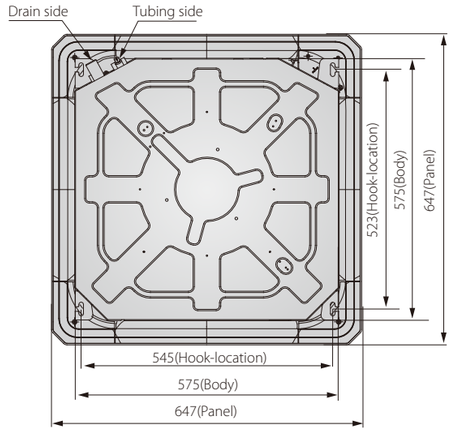


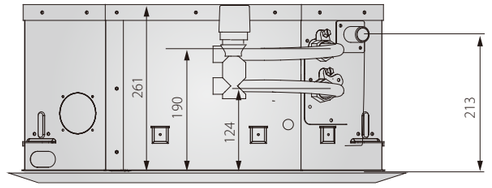
4-pipe 4-way cassette

Compact 4-way cassette »

2-pipe compact 4-way cassette

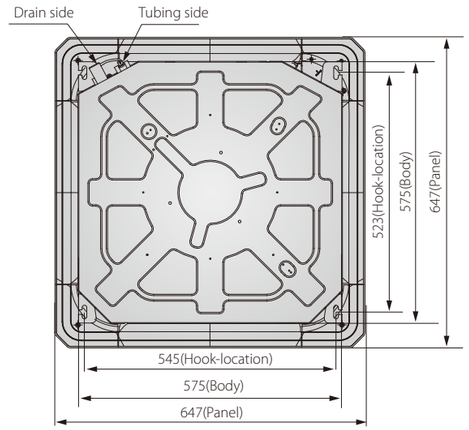
Dimensions (unit:mm)

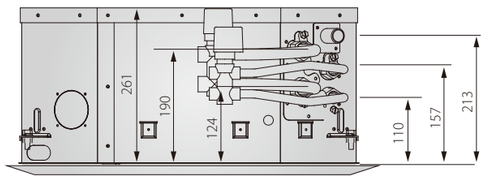




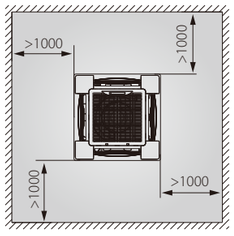
4-pipe compact 4-way cassette

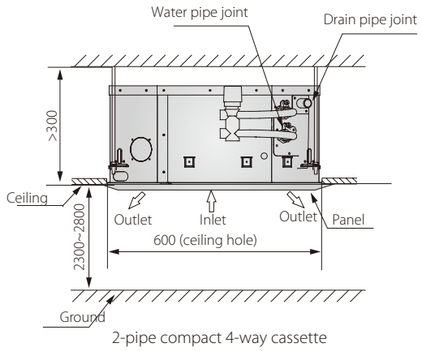
Dimensions (unit:mm)



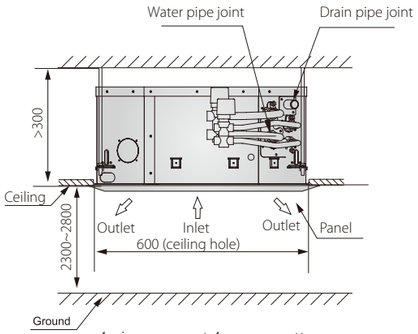


Service Spaces (unit:mm)





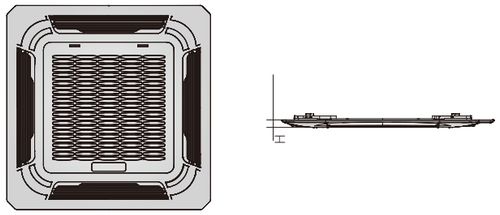
2-pipe compact 4-way cassette



4-pipe compact 4-way cassette

Fan Coil Units

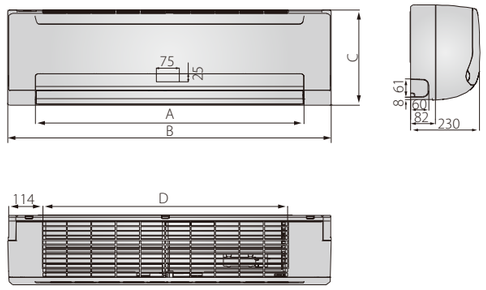
Height of the front panel



Type	H (mm)
4-way cassette	45
Compact 4-way cassette	50

Wall mounted - S panel »

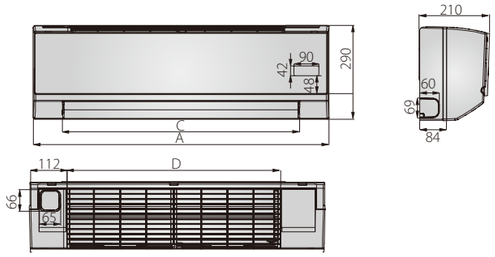
Dimensions (unit:mm)



Size \ Model	MKG-V250-B MKG-V300-B MKG-V400-B	MKG-V500-B MKG-V600-B
A	732	892
B	915	1072
C	290	315
D	663	813

Wall mounted - C panel »

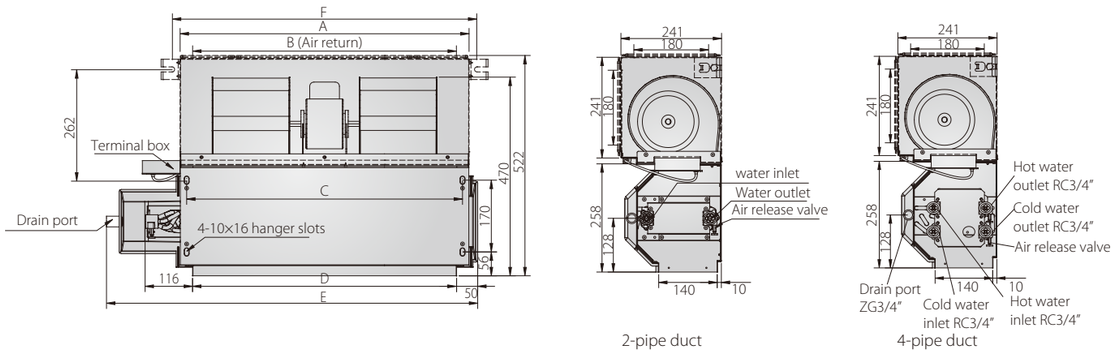
Dimensions (unit:mm)



Size \ Model	MKG-V250 MKG-V300 MKG-V400	MKG-V500 MKG-V600
A	915	1070
B	290	315
C	725	885
D	670	815

Duct »

Dimensions (unit:mm)



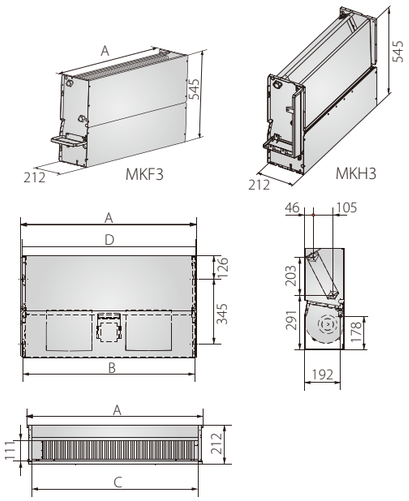
Size

Size	A	B	C	D	E	F
200CFM	545	485	513	485	741	583
300CFM	645	585	613	585	841	683
400CFM	745	685	713	685	941	783
500CFM	745	685	713	685	941	783
600CFM	965	905	933	905	1161	1003
800CFM	1265	1205	1233	1205	1461	1303
1000CFM	1370	1310	1338	1310	1566	1408
1200CFM	1660	1600	1628	1600	1856	1698

Ceiling & Floor »

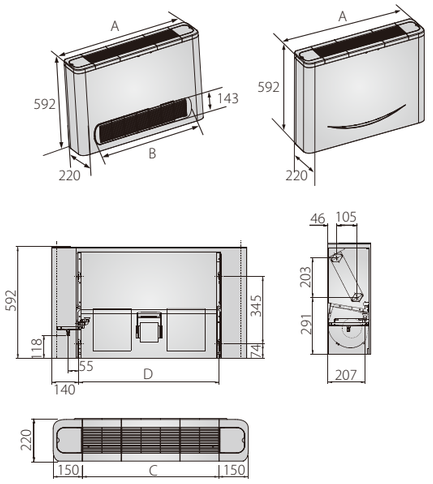
Dimensions (unit:mm)

Concealed type



Model	MKH3-V150/250	MKH3-V300/400	MKH3-V450/500	MKH3-V600~900
A(mm)	550	750	950	1250
B(mm)	526	726	926	1226
C(mm)	500	700	900	1200
D(mm)	532	732	932	1232

Exposed type



Model	MKH4-V150/250 MKH5-V150/250	MKH4-V300/400 MKH5-V300/400	MKH4-V450/500 MKH5-V450/500	MKH4-V600~900 MKH5-V600~900
A(mm)	800	1000	1200	1500
B(mm)	584	784	984	1284
C(mm)	500	700	900	1200
D(mm)	526	726	926	1226

Fan Coil Units

Control Devices

Wireless remote controllers

Model	Appearance	Function Descriptions	Applicable FCUs
R05/BGE		❖ LCD display screen ❖ Mode control ❖ Fan speeds control ❖ Time setting / Temp. setting / Swing setting	4-way Cassette (standard) Compact 4-way cassette (standard) Wall mounted (standard)

Wired controllers

Model	Appearance	Function Descriptions	Applicable FCUs
KJRP-86A1-E		❖ LCD display screen ❖ Mode control ❖ Fan speeds control ❖ Timer setting / Temp. setting	Duct without electric heater (optional)
KJR-18B/E		❖ Mechanical thermostat ❖ Mode control ❖ Fan speeds control ❖ Temp. setting	Duct without electric heater (optional)
KJR-21B/D		❖ LCD display screen ❖ Mode control / Fan speeds control ❖ Electric heater control ❖ Temp. setting	Duct with electric heater (optional)
KJR-15B/E		❖ LCD display screen ❖ Mode control ❖ Fan speeds control ❖ Temperature display in °F or °C	Floor standing / Ceiling & floor (optional)

Centralized controllers

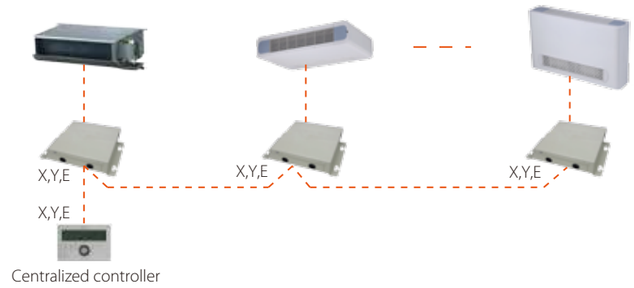
Model	Appearance	Function Descriptions	Applicable FCUs
CCM03		❖ Large LCD display screen ❖ Max. of 64 FCUs can be controlled by a CCM03 ❖ Mode control / fan speed control ❖ Time setting / temp. setting / swing setting	All FCUs (Compact 4-way cassette FCUs need adding NIM01 module, non-PCB FCUs need adding PC board control kit)
CCM09		❖ Weekly schedule function ❖ Basic functions are same as CCM03	
CCM30		❖ Touch-style keys ❖ Basic functions are same as CCM03	

Accessories

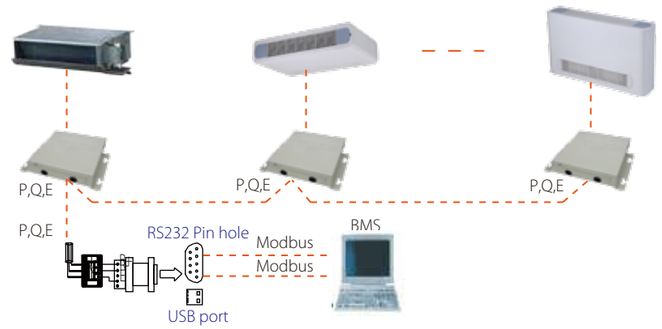
PC Board Control Kit for FCU »

- Available for all non-PCB FCUs.
- Flexible installation, it can be attached to the unit, mounted on a wall or hung under a ceiling.
- External installation making maintenance more convenient.
- Three fan speeds control/ Water pump control/ Long-distance ON/OFF control/ ALARM function/ Electric heater control.
- Operating status can be displayed by wired controller lamp indicator.
- Centralized control function.
- BMS control function through Modbus protocol.

Centralized control



BMS control function through Modbus protocol



Model			CE-FCUKZ-03	CE-FCUKZ-04
Applicable appliance			2-pipe FCUs	4-pipe FCUs
Power supply		V-Ph-Hz	220~240-1-50/60	
Operation range	Room temp.	°C	17-30	
	Inlet water temp.	°C	3-75	
Temp. controlling precision		°C	±1	
Net dimension	W×H×D	mm	296×66×212	
Packing size	W×H×D	mm	410×115×262	
Net weight		kg	1.4	
Gross weight		kg	2.5	

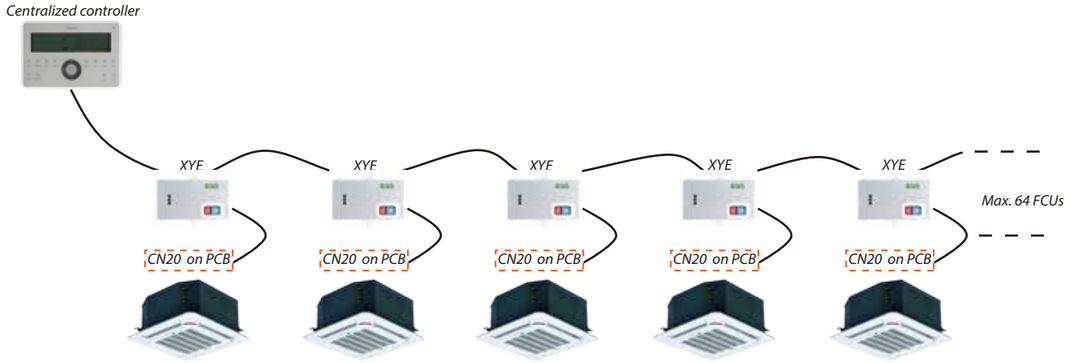
Fan Coil Units

Network Module »

- Achieve centralized control through XYE connection
- Only available for FCU Cassette Series
- Address setting should be same as connecting FCU
- There LEDs display: operation indicator lamp, communication indicator lamp and malfunction indicator lamp

MD-NIM01

Centralized wiring »



Valve Kit »

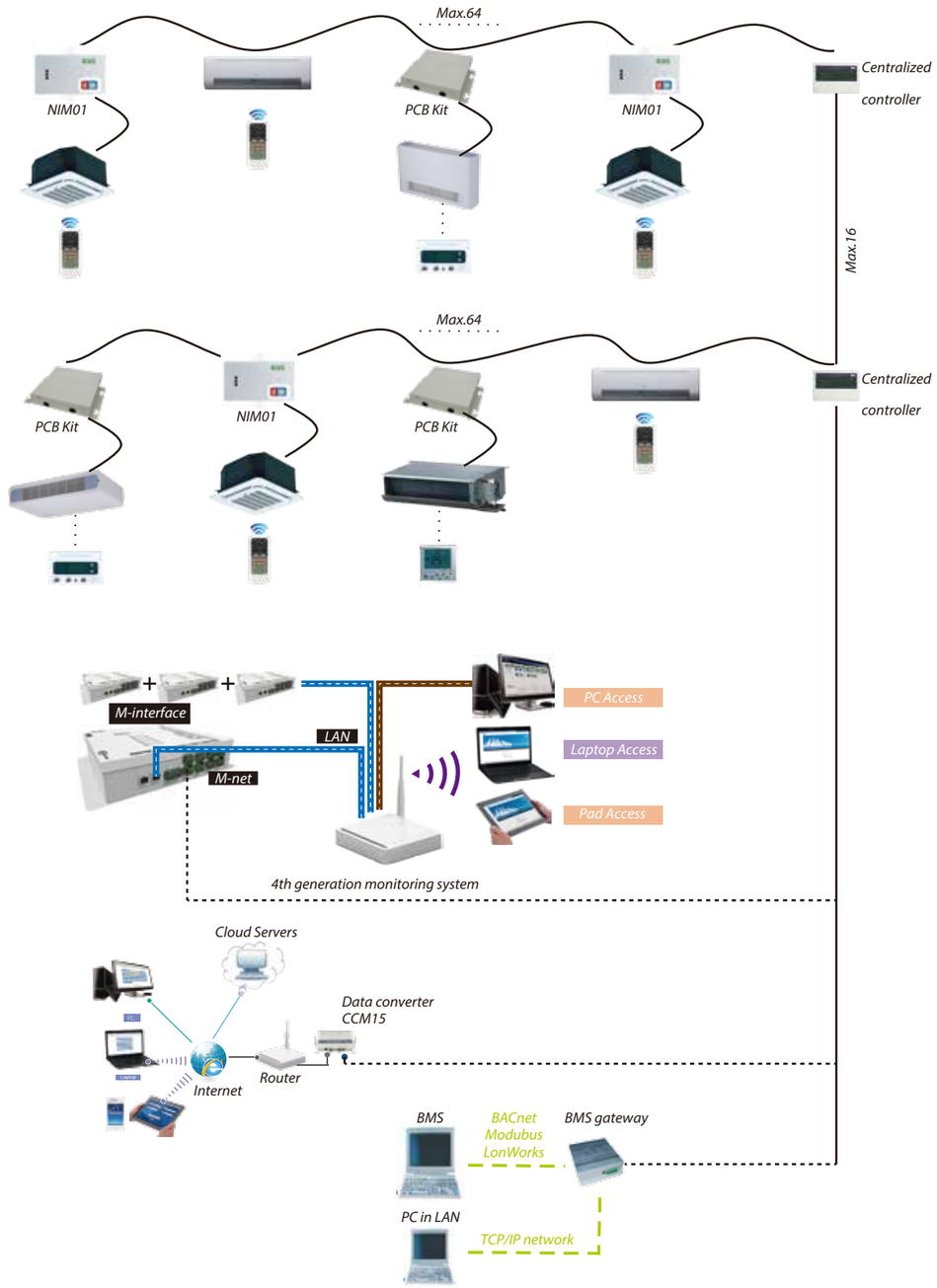
- Working Voltage: AC230±10%, 50/60Hz(24V can be customized).
- Power Consumption: 4W
- Nominal Pressure: 1.6MPa.
- Applied Medium: Cold or hot water, 50% glycol water liquor.
- Medium Temperature: 2-15℃(DDSTF-01), -20-1℃(DDSTF-04/05).
- Environment Temperature: -5-50℃(DDSTF-01), 0-50℃(DDSTF-04/05).

Model	DN(mm)	Inner Screw Thead	Applicable Appliance
DDSTF-01	20	3/4"	2-pipe cassette/duct/floor standing, 4-pipe duct
DDSTF-04	15	1/2"	4-pipe cassette (for hot water)
DDSTF-05	20	3/4"	2-pipe ceiling & floor, 4-pipe cassette (for cold water)

DDSTF-01

DDSTF-04
DDSTF-05

Application of Central Control & BMS Control



Fan Coil Units