



Commercial Air Conditioners **2017/2018**



INVERTER



DC Inverter
Aqua Mini Chillers & Fan Coil Units

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.



**Midea Company
Introduction**



**Midea CAC
Introduction**



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.

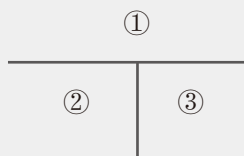
MCAC Hefei: 11 product lines focusing on VRF, Chillers, and Heat Pump Water Heaters.

MIDEA GROUP
FORTUNE GLOBAL
FORTUNE
500

- 
- 2016 >>> Strategic alliance between Midea and Italy's Clivet
 - 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

Reference Projects

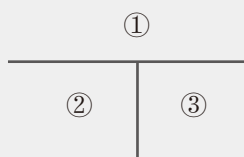
Hotel >>



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



Residential >>



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



INVERTER

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Aqua Mini Chiller

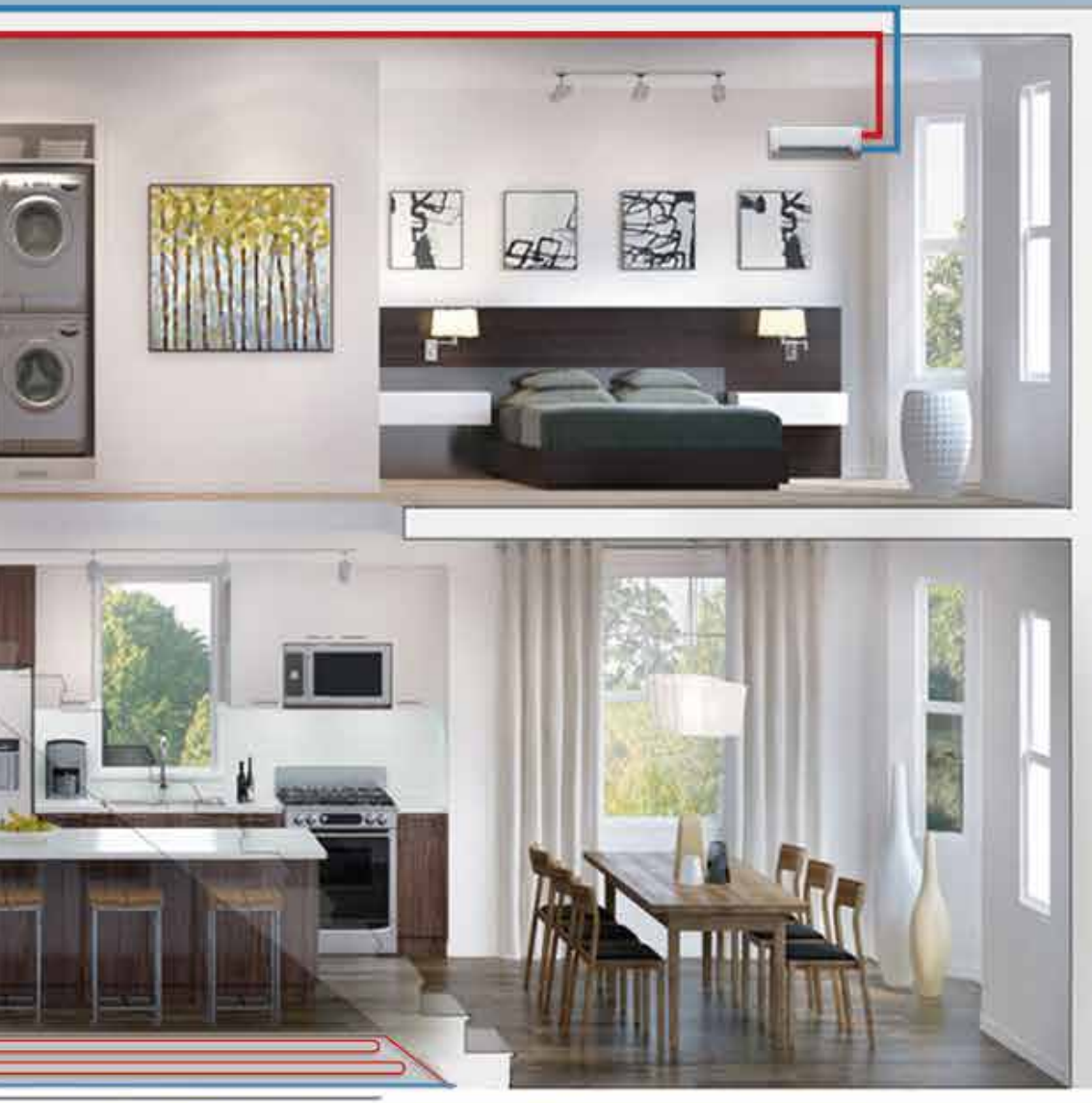
Midea DC Inverter Air-cooled Mini Chiller has unitary structure design and hydraulic module is built in the outdoor unit. It is air-cooled water heat pump chiller so there is no need of cooling water tower at the condensing side.

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

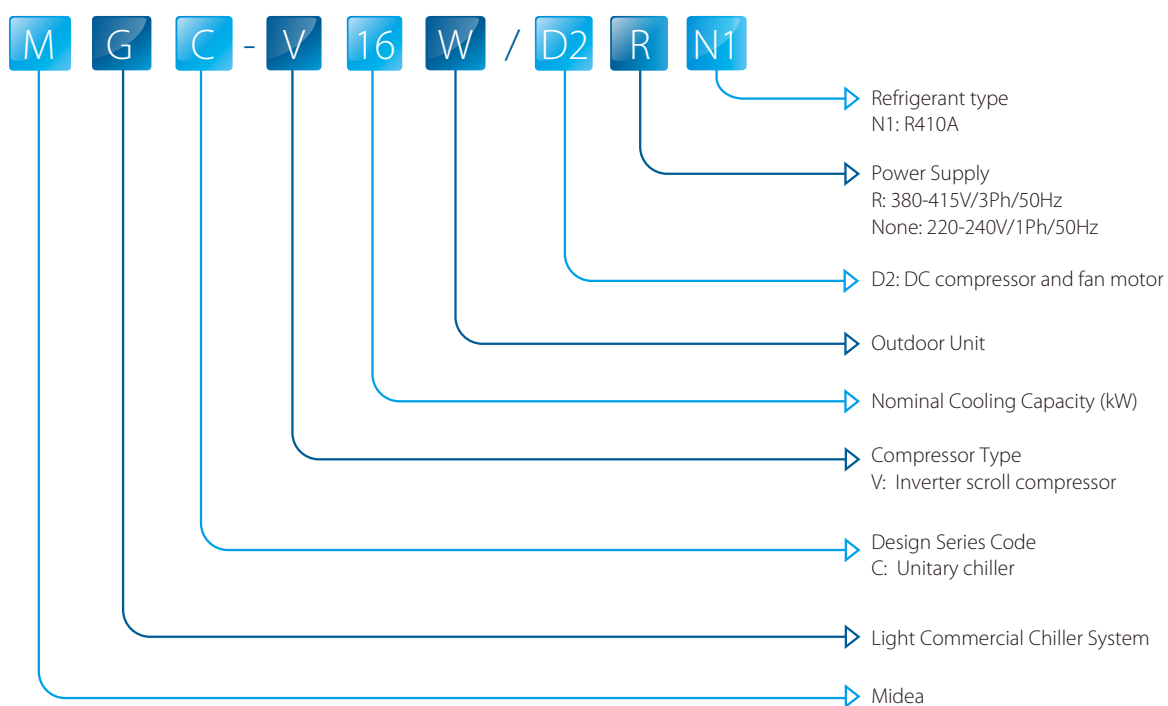
They are silent and compact units, easy to install and maintain. All units' energy efficiency at part load is A⁺ rated. Their high energy efficiency and high reliability ensure low running cost. So they are widely applied in apartments, villas, small business office buildings as well as restaurants,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

Product Lineup

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



Nomenclature



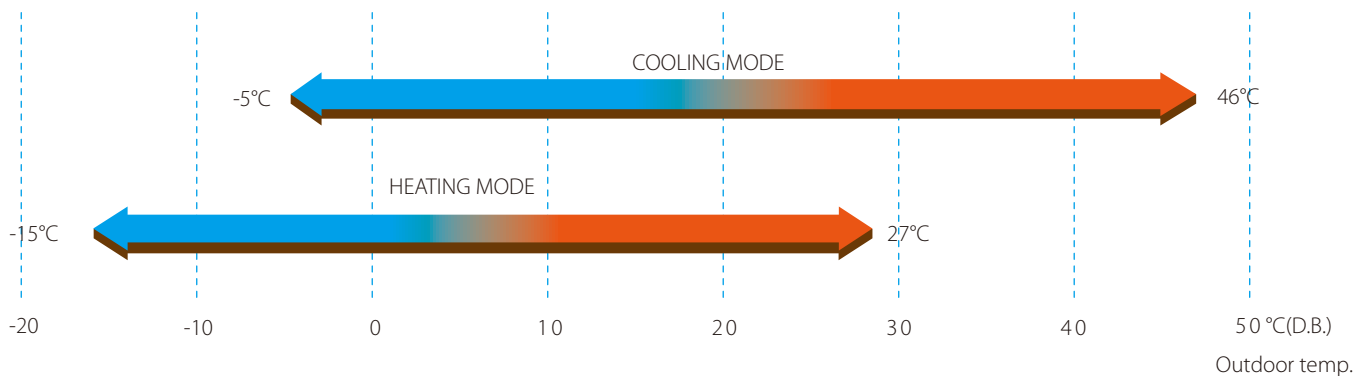
Features

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.



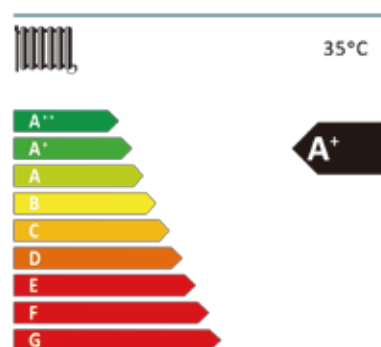
- ❖ Wide operation temperature range



- ❖ Wide range of outlet water temperature
The water outlet temperature is 4-55°C.

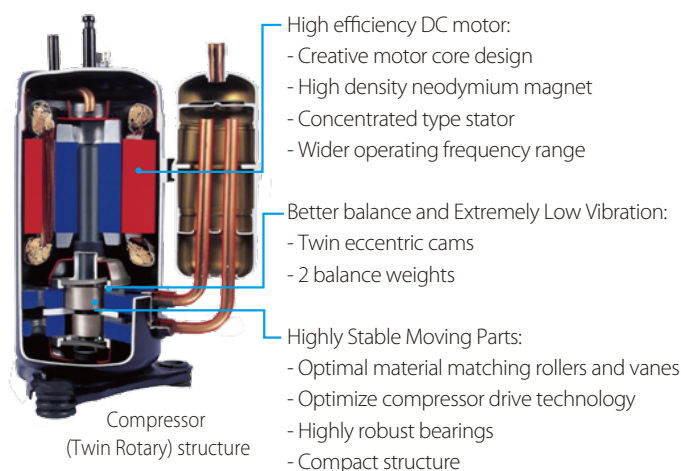
A⁺ rated energy efficiency at part load »

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.



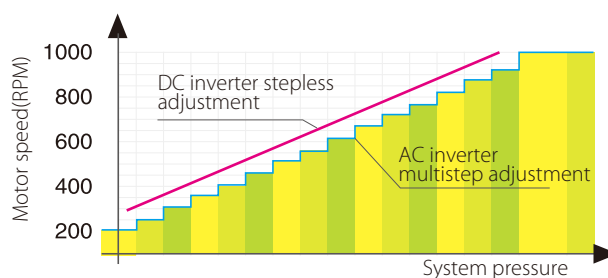
❖ DC inverter compressor

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

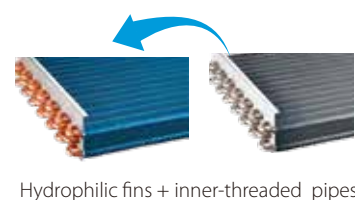
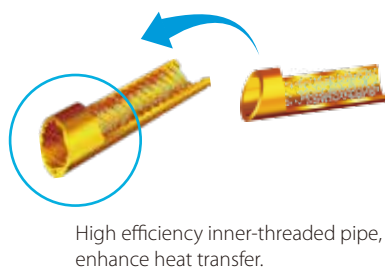
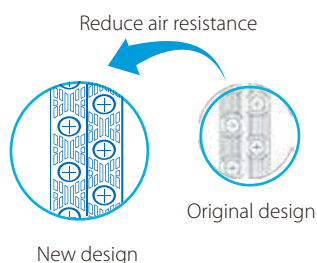


❖ DC fan motor

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



❖ High performance heat exchanger



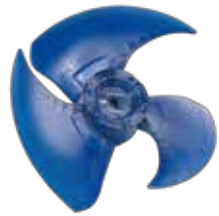
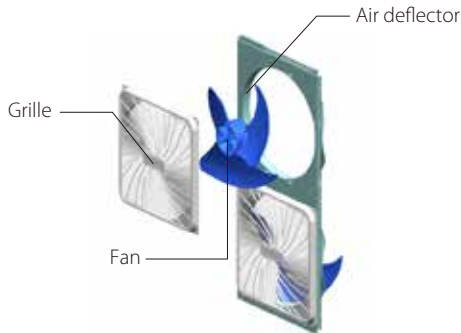
The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance.

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.

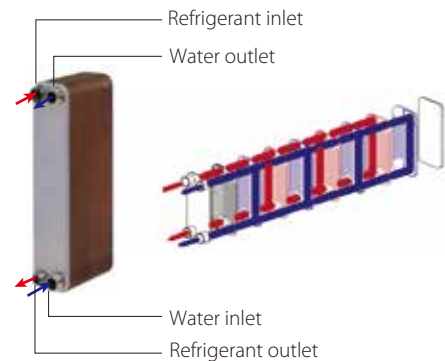


Powerful Large Propeller



Newly Designed Fan Guard

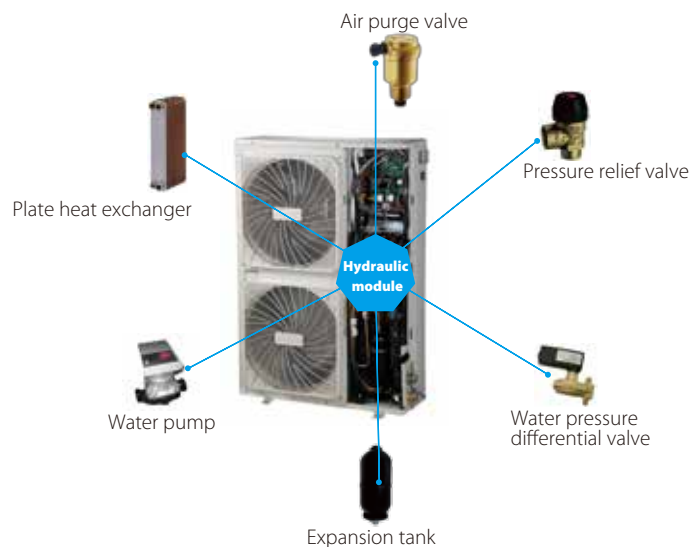
- ❖ EXV is used for stable and accurate gas flow control.
- ❖ High efficiency plate heat exchanger
Plate heat exchanger uses metal plates to transfer heat between refrigerant and water. The fluids are exposed to a much larger surface area because the fluids spread out over the plates, so both heat transfer 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			
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	kW	1.55	2.26	3.03	3.50
	Rated current	A	6.8	9.9	13.0	15.4
	EER		3.23	3.10	3.30	3.20
	SEER		4.22	3.76	3.89	4.09
Cooling ²	Capacity	kW	5.6	8.0	10.6	12.2
	Rated current	kW	11.5	18.5	23.0	26.5
	EER		4.87	4.32	4.24	4.60
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	kW	1.90	2.54	3.24	3.78
	Rated current	A	8.3	11.0	13.8	16.6
	COP		3.26	3.15	3.4	3.25
Heating ⁴	Capacity	kW	6.2	8.6	11.5	13.0
	Rated current	kW	1.35	2.10	2.65	2.92
	COP		4.60	4.10	4.34	4.45
	SCOP		3.55	3.46	3.34	3.46
Seasonal space heating energy efficiency (η _s)			138.9%	135.3%	130.7%	135.4%
Seasonal space heating energy efficiency class			A+	A+	A+	A+
Max. input current		A	11.4	13.7	25	19.1
Compressor	Type		Rotary			
Outdoor fan	Motor type		DC Motor			
	Air flow	m ³ /h	5,100	5,100	7,000	7,000
Air heat exchanger	Type		Fin-coil			
Water heat exchanger	Type		Plate heat exchanger			
	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	Pump head	m	5.5	5.5	8.5	8.5
	Water volume	L/min	4	4	4	4
Expansion tank volume		L	2	2	3	3
Refrigerant	Type		R410A			
	Charged volume	kg	2.5	2.5	2.8	2.8
Throttle type			Electronic expansion valve			
Sound power level		dB(A)	63	66	68	68
Sound pressure level ⁵		dB(A)	58	58	59	59
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. water inlet pressure ⁶		kPa	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	°C	-5-46			
	Heating	°C	-15-27			
Water outlet temperature range	Cooling	°C	4-20			
	Heating	°C	30-55			

Nominal capacity is based on the following conditions:

1. Condenser air in 35°C. Evaporator water in/out 12/7°C
2. Condenser air in 35°C. Evaporator water in/out 23/18°C
3. Evaporator air in 7°C °C85% R.H., Condenser water in/out 40/45°C
4. Evaporator air in 7°C °C85% R.H., Condenser water in/out 30/35°C
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)No811:2013; (EU)No813:2013; 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		
Cooling ¹	Capacity	kW	11.2(3.1-12.0)	12.5(3.3-14.0)	14.5(3.5-15.5)
	Rated input	kW	3.38	3.91	4.68
	Rated current	A	5.5	6.4	7.7
	EER		3.31	3.20	3.10
	SEER		4.16	4.27	4.38
Cooling ²	Capacity	kW	12.2	14.2	15.6
	Rated input	W	2.60	3.10	3.60
	EER		4.70	4.58	4.33
Heating ³	Capacity	kW	12.3(3.3-13.2)	13.8(3.5-15.4)	16.0(3.7-17.0)
	Rated input	kW	3.72	4.25	4.85
	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	kW	2850	3350	3920
	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		
Outdoor fan	Motor type		DC motor		
	Air flow	m³/h	7,000	7,000	7,000
Air heat exchanger	Type		Fin-coil		
Water heat exchanger	Type		Plate		
	Water volume	L	0.78	0.78	1.06
	Water flow	m³/h	1.92	2.15	2.49
	Water pressure drop	kPa	18	18	19
Water pump	Pump head	m	8.5	8.5	8.5
	Water volume	L/min	4	4	4
Expansion tank volume		L	3	3	3
Refrigerant	Type		R410A		
	Charged volume	kg	2.8	2.9	3.2
Throttle type			Electronic expansion valve		
Sound power level		dB(A)	68	70	72
Sound pressure level ⁵		dB(A)	62	62	62
Unit net dimension (W×H×D)		mm	970×1,327×400		
Packing dimension (W×H×D)		mm	1,082×1,456×435		
Net/ Gross weight		kg	110/121	111/122	111/122
The Max. and Min. water inlet pressure ⁶		kPa	500/150		
Pipe connections	Water inlet/outlet	inch	1-1/4"		
Controller			Electronic controller (standard), wired controller (optional)		
Ambient temperature range	Cooling	°C	-5-46		
	Heating	°C	-15-27		
Water outlet temperature range	Cooling	°C	4-20		
	Heating	°C	30-55		

Nominal capacity is based on the following conditions:

1. Condenser air in 35°C, Evaporator water in/out 12/7°C
2. Condenser air in 35°C, Evaporator water in/out 23/18°C
3. Evaporator air in 7°C °C85% R.H., Condenser water in/out 40/45°C
4. Evaporator air in 7°C °C85% R.H., Condenser water in/out 30/35°C
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

208-230V/1Ph/60Hz

Model			MGC-V10W/D2VN1	MGC-V18W/D2VN1
Power supply		V/Ph/Hz	208-230/1/60	
Cooling	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	kW	3.11	5.60
	EER		3.39	3.10
Heating	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	kW	3.14	5.78
	COP		3.50	3.20
Max input current		A	8.9	9.6
Compressor	Type		Rotary	
Outdoor fan	Motor type		DC motor	
	Air flow	CFM(m ³ /h)	4,120(7,000)	4,120(7,000)
Air heat exchanger	Type		Fin-coil	
Water heat exchanger	Type		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	Pump head	m	8	8
	Water volume	L/min	4	4
Expansion tank volume		L	3	3
Refrigerant	Type		R410A	
	Charged volume	lbs/kg	6.2/2.8	7.5/3.4
Throttle type			Electronic expansion valve	
Sound pressure level ³		dB(A)	56	60
Unit net dimension (WxHxD)	inch		38-3/16x52-1/4x31-1/2	
	mm		970x1,327x400	
Packing dimension (WxHxD)	inch		42-19/32x57-21/64x17-1/8	
	mm		1,082x1,456x435	
Net/ Gross weight	lbs		243/267	247/271
	kg		110/121	112/123
The Max and Min. water inlet pressure ⁴		kPa	500/150	
Pipe connections	Water inlet/outlet	inch	1-1/4"	
Controller			Electronic controller (standard), wired controller (optional)	
Ambient temperature range	Cooling	°C	-5-46	
	Heating	°C	-15-27	
Water outlet temperature range	Cooling	°C	4-20	
	Heating	°C	30-55	

1. Cooling: Chilled water inlet/outlet temperature: 12/7°C, outdoor ambient temperature 35°C DB.

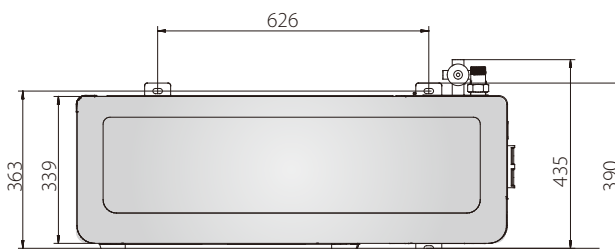
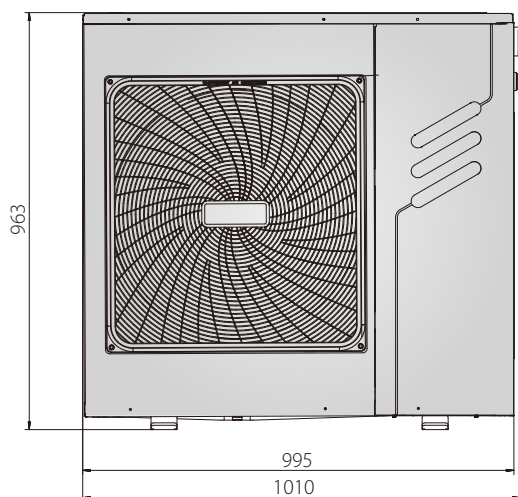
2. Heating: Warm water inlet/outlet temperature: 40/45°C, outdoor ambient temperature 7°C DB/6°C WB.

3. At 1m in open field fan side (sound pressure).

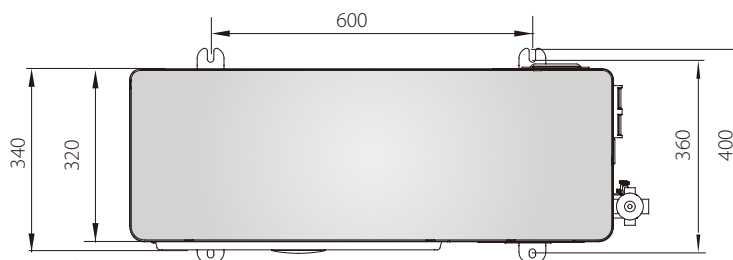
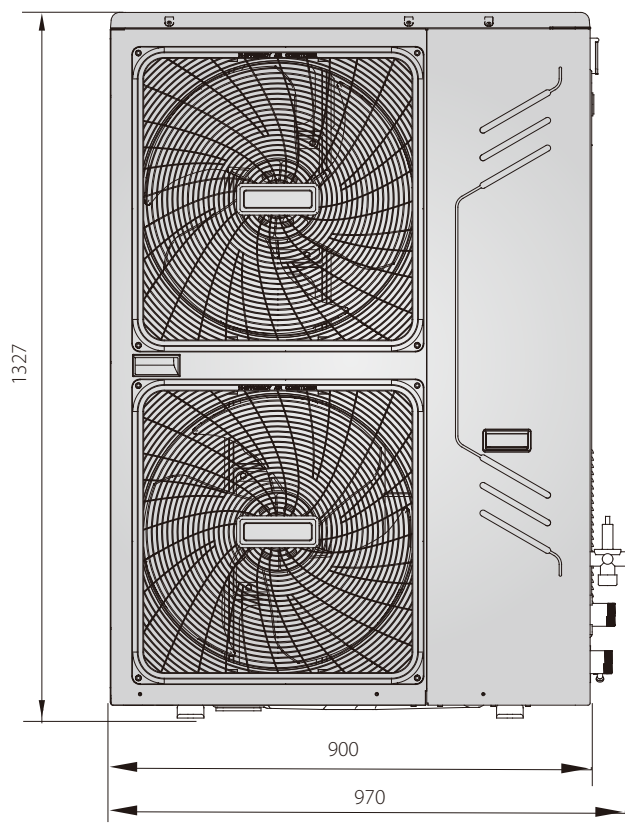
4. The maximum and minimum operating pressure values refer to the activation of the pressure switches.

Unit Dimensions (Unit: mm)

5/7kW >>



10-18kW >>





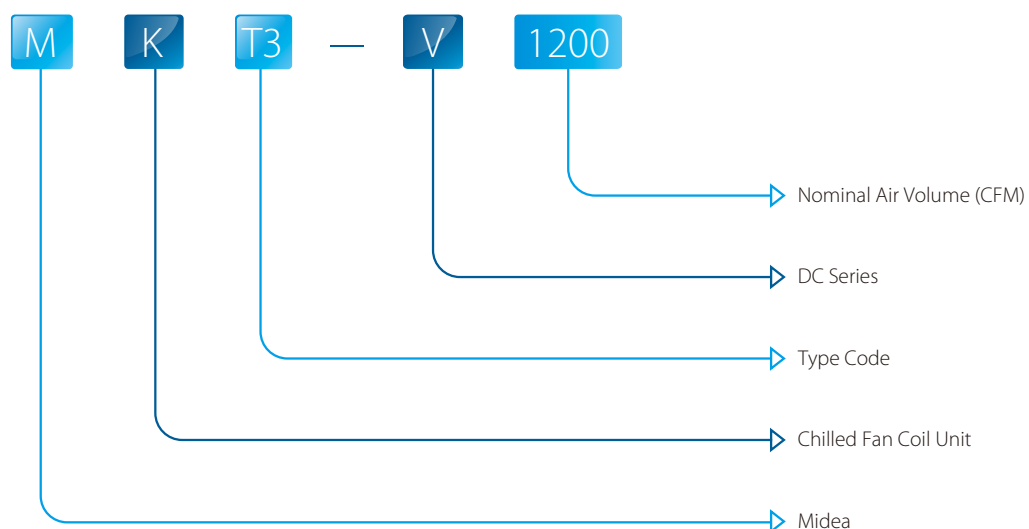
Fan Coil Units

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

It contains cassette units, ceiling & floor units with or without cabinet, wall-mounted units and duct units. The air volume ranges from 150CFM to 1500CFM. It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.



Nomenclature



Advantage of Fan Coil Units with DC Brushless Fan Motor

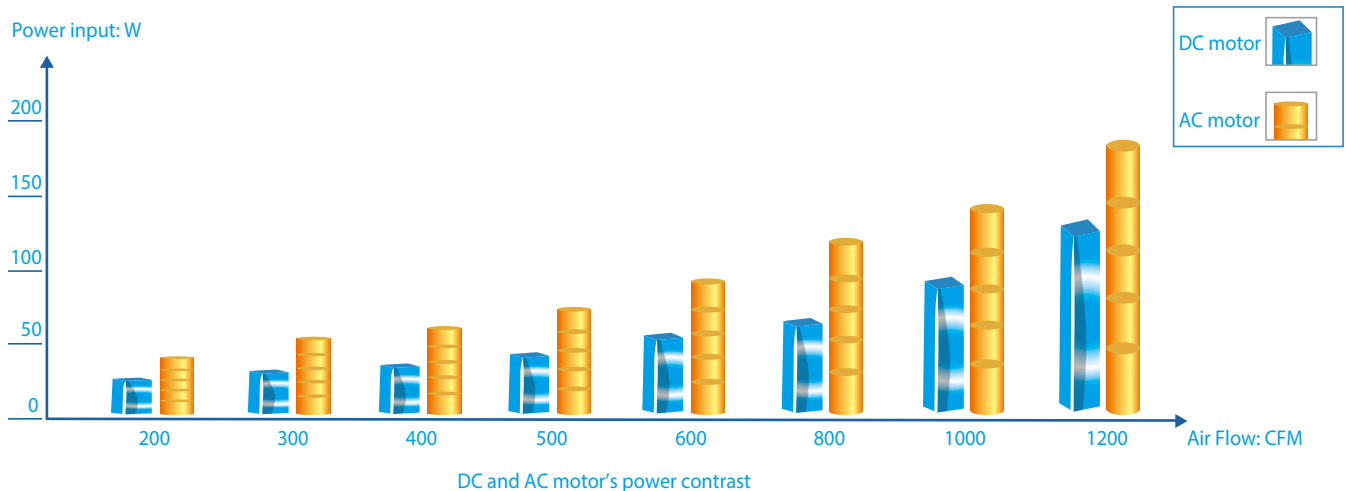
The DC fan coil units are the new energy saving products improved with advanced DC driven technology. The DC fan coil units have advanced technology of high energy efficiency, low noise operation and precision temperature control, so are ideal for hospitals, office building, hotels, airports and various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



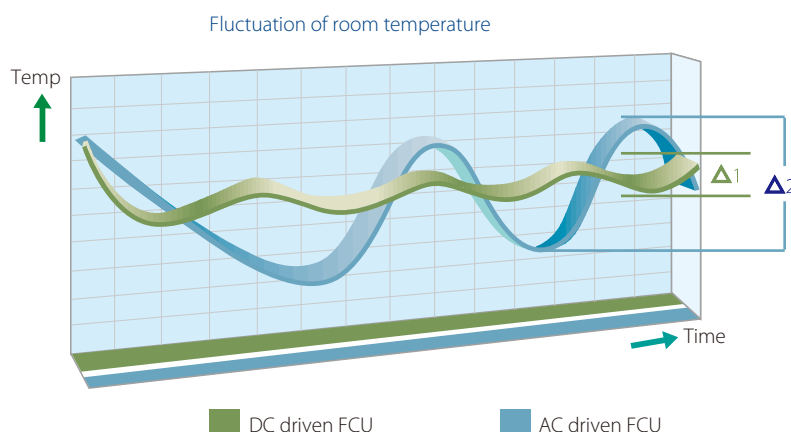
Quiet Operation >>

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 & floor units with or without cabinet, wall-mounted units and duct units. The air volume ranges from 150CFM to 1500CFM. It is a highly versatile product suitable for hospitals, office buildings, hotels, airports and various other applications.



Cassette unit



Wall-mounted unit



Duct unit



Ceiling & floor unit
with cabinet



Ceiling & floor unit
with cabinet



Ceiling & floor unit
without cabinet

Product Lineup

2-Pipe FCUs

Air volume (CFM)		150	200	250	300	400	450	500	
4-way cassette									
Compact 4-way cassette									
Duct									
Wall mounted									
Ceiling & floor									

4-Pipe FCUs

Air volume (CFM)		200	300	400	500	600	750	800	
4-way cassette									
Compact 4-way cassette									
Duct									

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.

	600	750	800	850	900	950	1000	1200	1500

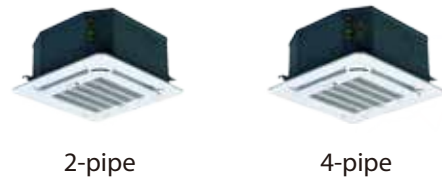
	850	950	1000	1200	1500

Cassette Series

4-way Cassette



Compact 4-way Cassette



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

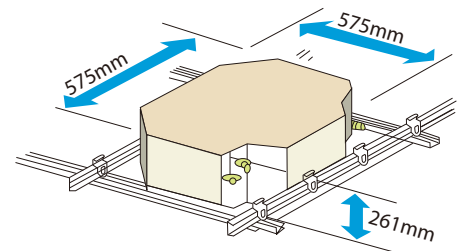


360° panel



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 >>

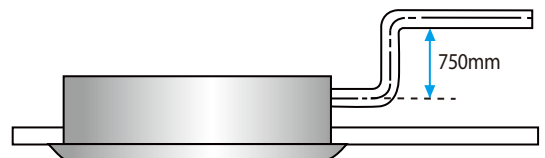
- ❖ Thanks to the DC brushless fan motor, the unit operates in high efficiency and low sound level.

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 (WxHxD)	mm	950x45x950		
	Packing size (WxHxD)	mm	1035x90x1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (WxHxD)	mm	840x230x840	840x230x840	840x300x840
	Packing size (WxHxD)	mm	900x260x900	900x260x900	900x330x900
	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 (WxHxD)	mm	950x45x950		
	Packing size (WxHxD)	mm	1035x90x1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (WxHxD)	mm	840x300x840		
	Packing size (WxHxD)	mm	900x330x900		
	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.

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)		m³/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		
	Net dimensions (WxHxD)	mm	950x45x950		
Panel	Packing size (WxHxD)	mm	1035x90x1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (WxHxD)	mm	840x300x840		
	Packing size (WxHxD)	mm	900x330x900		
	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)		m³/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		
	Net dimensions (WxHxD)	mm	950x45x950		
Panel	Packing size (WxHxD)	mm	1035x90x1035		
	Net weight	kg	6		
	Gross weight	kg	9		
Body	Net dimensions (WxHxD)	mm	840x300x840		
	Packing size (WxHxD)	mm	900x330x900		
	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

2-Pipe Duct



4-Pipe Duct



Various Selections >>

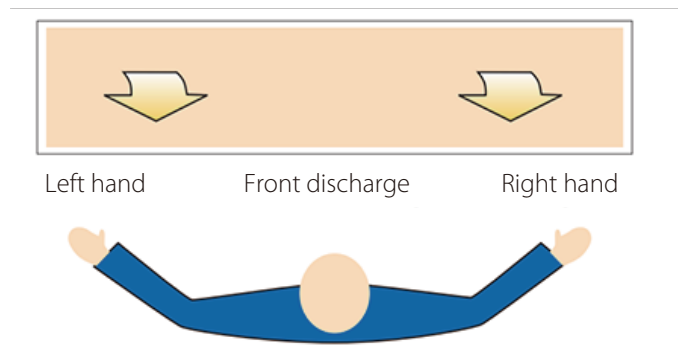
- ❖ Versions for normal/high temperature different systems.
- ❖ 2, 3 or 4 row coils for 2-pipe system, and 3 row coils for 4-pipe system.
- ❖ Large range of available static pressure.

High Efficiency and Low Sound Operation >>

- ❖ Due 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 the room.



2-Pipe 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 (WxHxD)		mm	741x241x522	841x241x522	941x241x522	941x241x522
Packing size (WxHxD)		mm	790x260x550	890x260x550	990x260x550	990x260x550
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	R3/4			

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 (WxHxD)		mm	1161x241x522	1461x241x522	1566x241x522	1856x241x522
Packing size (WxHxD)		mm	1210x260x550	1510x260x550	1615x260x550	1905x260x550
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	R3/4			

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.

2-Pipe 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)		m³/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	741x241x522	841x241x522	941x241x522	941x241x522
Packing size (WxHxD)		mm	790x260x550	890x260x550	990x260x550	990x260x550
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	R3/4			

Model			MKT3-V600	MKT3-V800	MKT3-V1000	MKT3-V1200
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m³/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	1161x241x522	1461x241x522	1566x241x522	1856x241x522
Packing size (WxHxD)		mm	1210x260x550	1510x260x550	1615x260x550	1905x260x550
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	R3/4			

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.

2-Pipe 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)		m³/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	R3/4			

Model			MKT4-V600	MKT4-V800	MKT4-V1000	MKT4-V1200
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m³/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	R3/4			

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-Pipe 3-Row Duct



Model MKT3-			V200F	V300F	V400F	V500F
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Air flow (H/M/L)		m³/h	320/210/140	450/340/280	530/390/260	690/470/370
		CFM	190/120/85	270/200/170	320/230/160	410/280/220
Standard external static pressure		Pa	12Pa (default), 30/50Pa can be set through dial switch on PCB.			
Cooling	Capacity (H/M/L)	kW	1.4/1.1/0.8	2.2/1.7/1.5	2.5/2.0/1.5	3.0/2.4/1.9
	Water flow rate	L/h	270	380	470	540
	Water pressure drop	kPa	10.2	10.5	11.3	13.6
Heating	Capacity (H/M/L)	kW	2.1/1.7/1.4	3.0/2.6/2.1	3.7/3.2/2.5	4.4/3.6/3.0
	Water pressure drop	kPa	8.9	9.1	10.1	11.7
Power input		W	14	19	24	36
Sound pressure level	12Pa (H/M/L)	dB(A)	35/25/23	36/29/23	38/32/24	43/35/27
	30Pa (H/M/L)	dB(A)	41/32/25	39/30/25	44/38/28	46/37/30
	50Pa (H/M/L)	dB(A)	43/34/26	44/36/26	47/41/28	48/42/33
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		1	2	2	2
Coil	Row		3	3	3	3
	Max. Working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52
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
Net weight		kg	17.2	19.5	21.5	21.5
Gross weight		kg	20.2	22.5	24.5	24.5
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		mm	ODØ24	ODØ24	ODØ24	ODØ24

Model MKT3-			V600F	V800F	V1000F	V1200F
Power supply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Air flow (H/M/L)		m³/h	900/670/440	1240/840/670	1610/1160/790	1850/1400/970
		CFM	530/400/260	730/500/400	950/690/470	1090/830/570
Standard external static pressure		Pa	12Pa (default), 30/50Pa can be set through dial switch on PCB.			
Cooling	Capacity (H/M/L)	kW	4.2/3.5/2.5	5.3/4.1/3.1	6.7/5.4/3.9	8.2/6.5/4.6
	Water flow rate	L/h	730	930	1180	1400
	Water pressure drop	kPa	15.3	12.8	21.6	34.9
Heating	Capacity (H/M/L)	kW	5.7/4.8/3.4	6.8/5.5/4.6	8.2/6.9/5.2	10.1/8.6/6.8
	Water pressure drop	kPa	12.7	12.0	15.5	25.73
Power input		W	45	57	87	95
Sound pressure level	12Pa (H/M/L)	dB(A)	46/39/30	46/38/30	48/41/31	47/40/30
	30Pa (H/M/L)	dB(A)	49/41/33	49/43/33	49/42/33	50/42/34
	50Pa (H/M/L)	dB(A)	51/44/39	52/45/37	51/44/35	53/45/37
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	2	2	2
Fan	Type		Centrifugal, forward-curved Blades			
	Quantity		2	4	4	4
Coil	Row		3	3	3	3
	Max. Working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52
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	24.2	33.5	35.2	39.7
Gross weight		kg	27.7	37.7	39.7	44.9
Water inlet/outlet pipe		inch	RC3/4	RC3/4	RC3/4	RC3/4
Drain pipe		mm	R3/4	R3/4	R3/4	R3/4

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.

2. Air flow rate at 12Pa ESP.

3. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C WB/19°C DB.

Heating conditions: entering water 50°C, entering air temperature 20°C, the same water flow as the cooling conditions.

4. Noise is tested in a semi-anechoic test room.

Wall Mounted

C Type



S Type



Stylish Panel >>

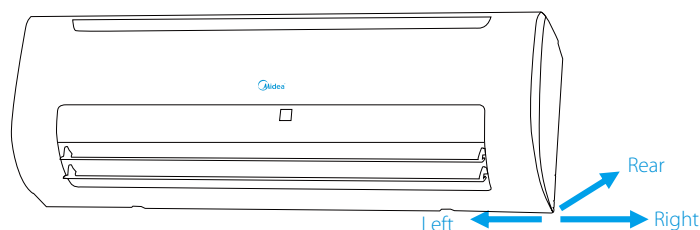
- ❖ Stylish front panel blends easily within any interior décor, ideal for use in shops, restaurants or offices with no or narrow false ceilings.

High Efficiency and Low Sound Operation >>

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

Convenient Installation >>

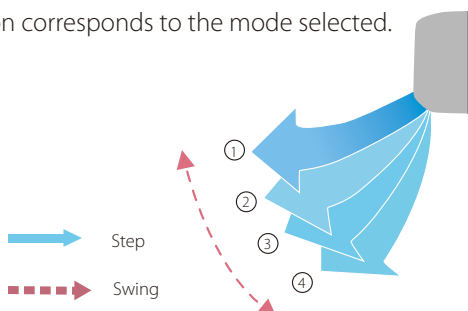
- ❖ Multi-directional outlet pipe feature: left\right\rear, to meet the needs of different rooms.



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 Type)



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)		m³/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	2.2/1.84/1.64	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 (WxHxD)		mm	915x290x210	915x290x210	915x290x210	1070x315x210	1070x315x210
Packing size (WxHxD)		mm	1020x385x300	1020x385x300	1020x385x300	1180x410x300	1180x410x300
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 Type)



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)		m³/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 (WxHxD)		mm	915x290x230	915x290x230	915x290x230	1072x315x230	1072x315x230
Packing size (WxHxD)		mm	1020x390x315	1020x390x315	1020x390x315	1180x415x315	1180x415x315
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.

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 >>

- ❖ Due 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.



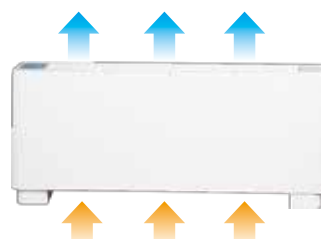
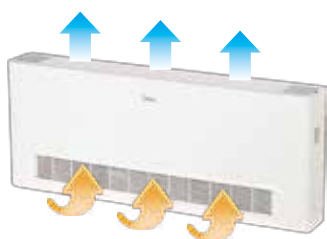
Floor installation



Ceiling installation

Flexible Air Return Type >>

- ❖ Air return can be from side or bottom.



Movable Louver >>

- ❖ Removable louver making maintenance convenient.

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		220-240/1/50			
Air flow (H/M/L)		255/215/190	425/360/320	510/430/380	680/580/510
		CFM	150/125/110	250/210/190	300/250/220
Cooling	Capacity (H/M/L)	kW	1.15/0.87/0.69	1.87/1.50/1.20	2.53/1.97/1.45
	Water flow rate	L/h	198	321	435
	Water pressure drop	kPa	8.5	9.6	16.3
Heating	Capacity (H/M/L)	kW	1.52/1.06/0.93	2.53/1.91/1.47	3.49/2.63/1.89
	Water pressure drop	kPa	8	7.7	14.5
Power input (H)		W	14	16	29
Sound pressure level	H3 (H/M/L)	dB(A)	29/25/19	30/26/20	32/28/22
	H4 (H/M/L)	dB(A)	30/26/20	31/27/21	33/29/23
	H5 (H/M/L)	dB(A)	29/25/19	30/26/20	32/28/22
Fan motor		Type	DC motor		
		Quantity	1		
Fan		Type	Centrifugal, forward-curved Blades		
		Quantity	1	2	2
Coil	Row		3	2	2
	Max. working pressure	MPa	1.6		
	Diameter	mm	Φ9.52		
Body (H3 series)	Net dimensions (WxHxD)	mm	550x545x212	550x545x212	750x545x212
	Packing size (WxHxD)	mm	639x639x305	639x639x305	839x639x305
	Net weight	kg	17	17	20
	Gross weight	kg	19	19	23.5
Body (H4/H5 series)	Net dimensions (WxHxD)	mm	800x592x220	800x592x220	1000x592x220
	Packing size (WxHxD)	mm	889x683x312	889x683x312	1089x683x312
	Net weight	kg	24.4	24.4	28.2
	Gross weight	kg	28.4	28.4	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		220-240/1/50				
Air flow (H/M/L)		m³/h	765/650/570	850/720/640	1020/870/765	1360/1160/1020
		CFM	450/380/335	500/420/375	600/510/450	800/680/600
Cooling	Capacity (H/M/L)	kW	3.97/2.88/2.61	4.85/3.61/2.61	5.64/4.01/3.06	6.52/5.29/4.00
	Water flow rate	L/h	683	834	970	1121
	Water pressure drop	kPa	30.1	27.7	16.6	26.5
Heating	Capacity (H/M/L)	kW	5.64/4.03/3.04	6.98/5.12/3.67	8.23/6.01/4.54	9.58/7.58/5.68
	Water pressure drop	kPa	25.3	23.1	14.5	19.8
Power input (H)		W	29	35	39	70
Sound pressure level	H3 (H/M/L)	dB(A)	36/32/26	38/33/27	40/34/28	41/35/29
	H4 (H/M/L)	dB(A)	37/33/27	39/34/28	41/35/29	42/36/30
	H5 (H/M/L)	dB(A)	36/32/26	38/33/27	40/34/28	41/35/29
Fan motor		Type	DC motor			
		Quantity	1			
Fan		Type	Centrifugal, forward-curved Blades			
		Quantity	2	2	3	3
Coil	Row		3	3	2	2
	Max. working pressure	MPa	1.6			
	Diameter	mm	Φ9.52			
Body (H3 series)	Net dimensions (WxHxD)	mm	950x545x212	950x545x212	1250x545x212	1250x545x212
	Packing size (WxHxD)	mm	1039x639x305	1039x639x305	1339x639x305	1339x639x305
	Net weight	kg	25	25	32	32
	Gross weight	kg	29	29	36	36
Body (H4/H5 series)	Net dimensions (WxHxD)	mm	1200x592x220	1200x592x220	1500x592x220	1500x592x220
	Packing size (WxHxD)	mm	1289x683x312	1289x683x312	1589x683x312	1589x683x312
	Net weight	kg	34.2	34.2	40	40
	Gross weight	kg	39.7	39.7	45.5	45.5
Water inlet/outlet pipe		inch	G3/4			
Drain pipe		mm	ODΦ16			

Notes:

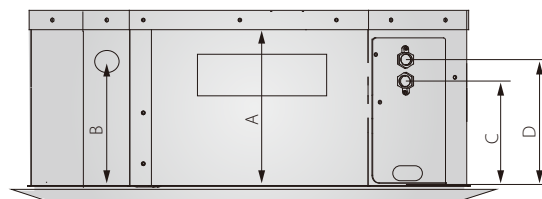
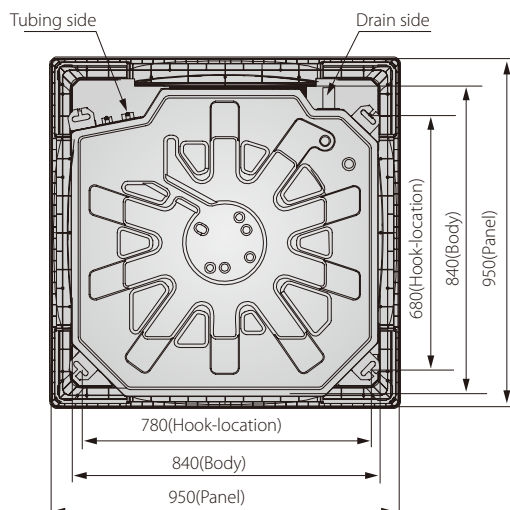
1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB/19°C WB.
Heating conditions: entering water 50°C, entering air temperature 20°C DB, the same water flow as the cooling conditions.
3. Noise is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

Dimensions

4-way cassette >>

2-pipe 4-way cassette

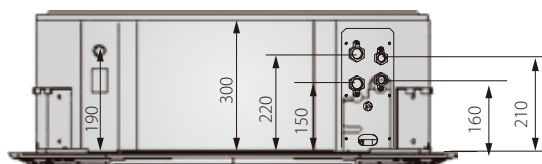
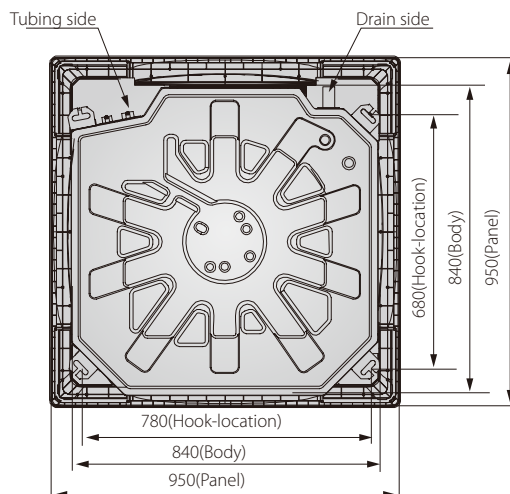
Dimensions (unit:mm)



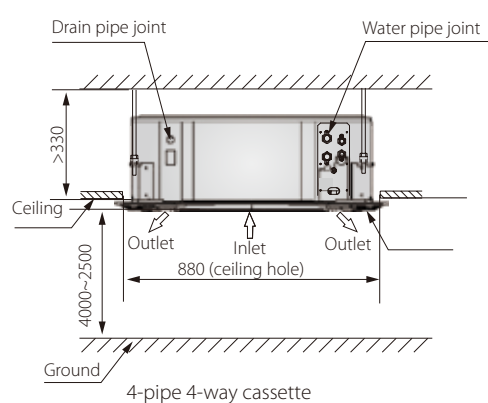
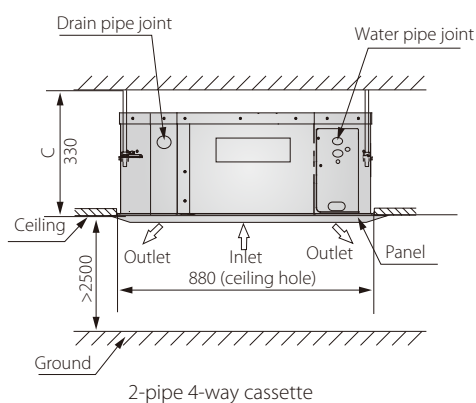
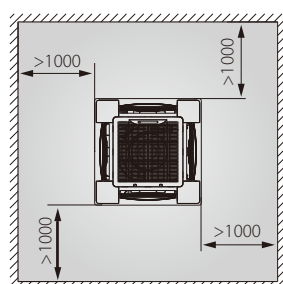
Model	Size	A	B	C	D
MKA-V600R		230	170	135	185
MKA-V750R					
MKA-V950R		300	190	145	195
MKA-V1200R					
MAK-V1500R					

4-Pipe 4-way cassette

Dimensions (unit:mm)



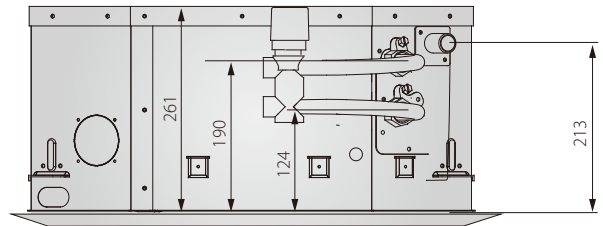
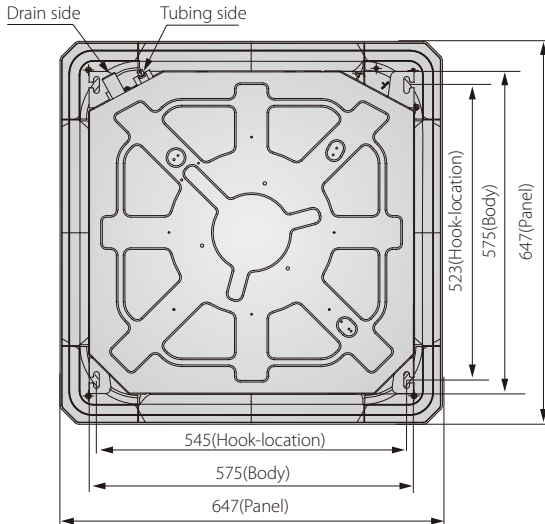
Service Spaces (unit:mm)



Compact 4-way cassette >>

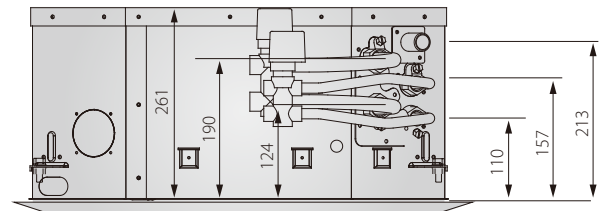
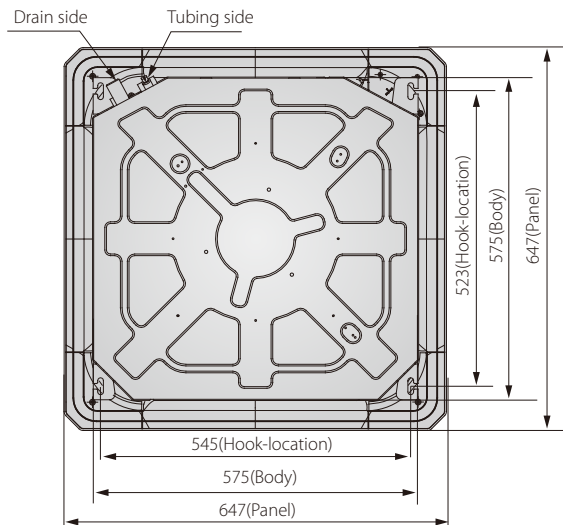
2-pipe compact 4-way cassette

Dimensions (unit: mm)

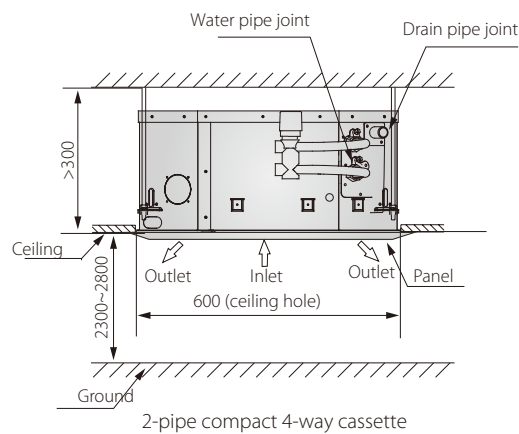
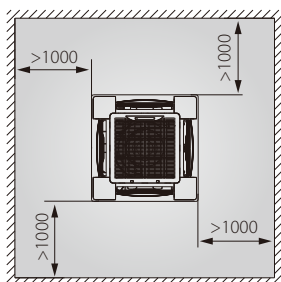


4-pipe compact 4-way cassette

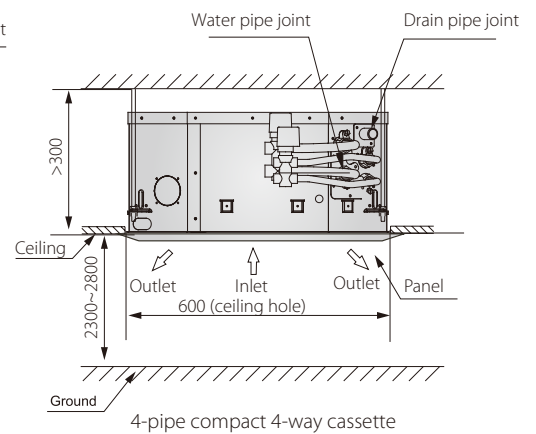
Dimensions (unit: mm)



Service Spaces (unit: mm)

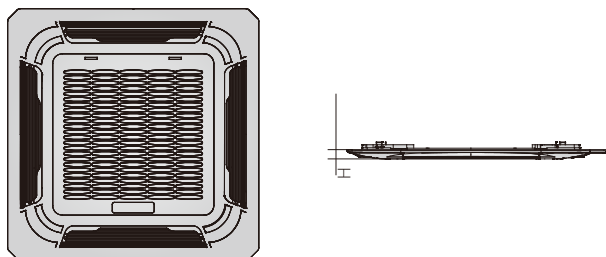


2-pipe compact 4-way cassette



4-pipe compact 4-way cassette

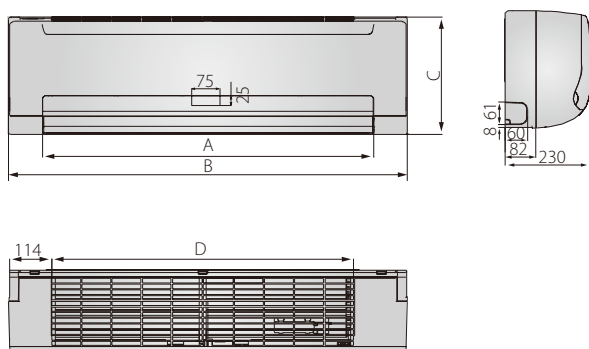
Height of the front panel



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

Wall mounted - S type >>

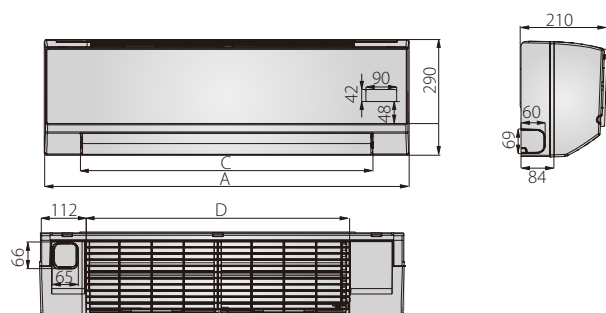
Dimensions (unit: mm)



Model Size	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 type >>

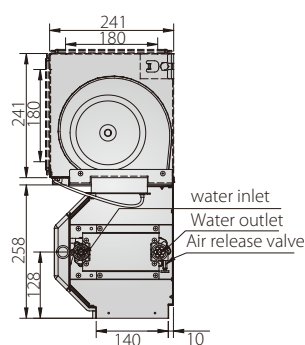
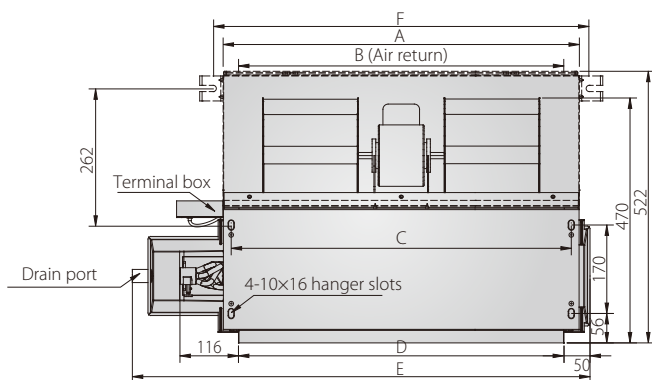
Dimensions (unit: mm)



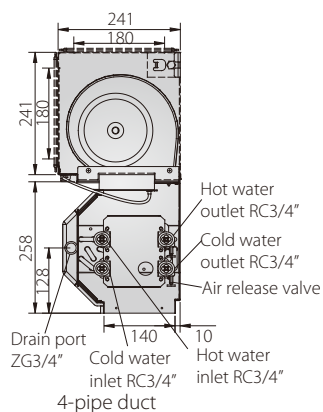
Model Size	MKG-V250 MKG-V300 MKG-V400	MKG-V500 MKG-V600
A	915	1070
B	290	315
C	725	885
D	670	815

Duct >>

Dimensions (unit: mm)



2-pipe duct



4-pipe duct

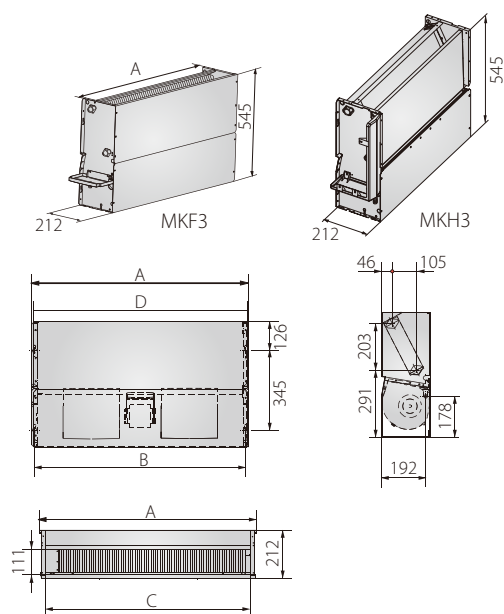
(continued: duct units dimensions)

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 >>

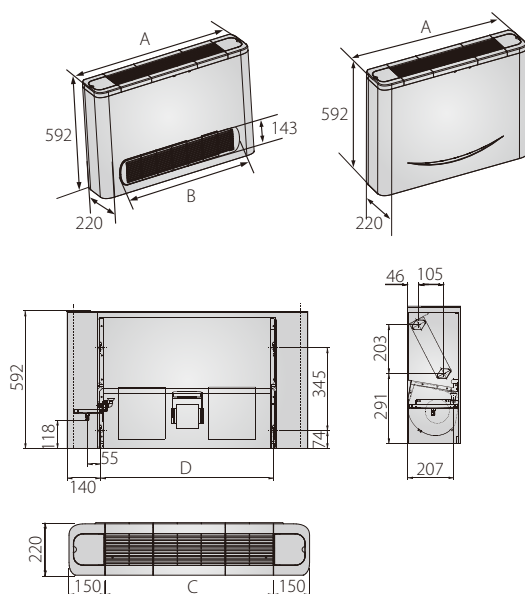
Dimensions (unit: mm)

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

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)
KJR-29B/E		- LCD display screen - Mode control - Fan speeds control - Temp. setting	Cassette / Wall-mounted (optional)
KJR-12B/E		- Swing function - Mode control - Fan speeds control - Temp. setting	Cassette / Wall-mounted (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

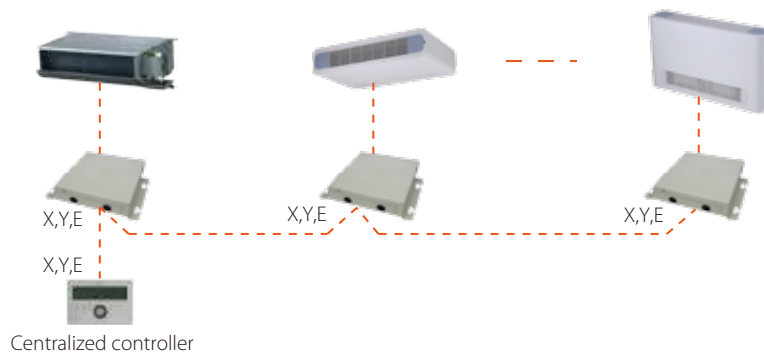
PC Board Control Kit for FCU >>

- ❖ 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.
- ❖ Functions: 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.

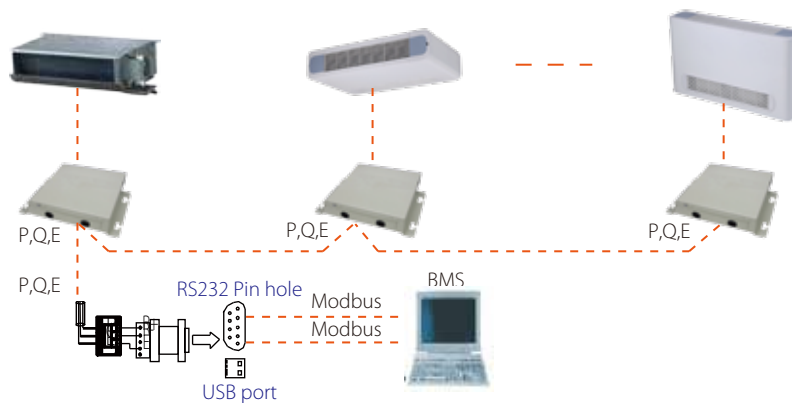


PC Board Control Kit

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	

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°C(DDSTF-01), -20-1°C(DDSTF-04/05).
- ❖ Environment Temperature: -5-50°C(DDSTF-01), 0-50°C(DDSTF-04/05).



DDSTF-01



DDSTF-04

DDSTF-05

Model	DN(mm)	Inner Screw Thread	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)

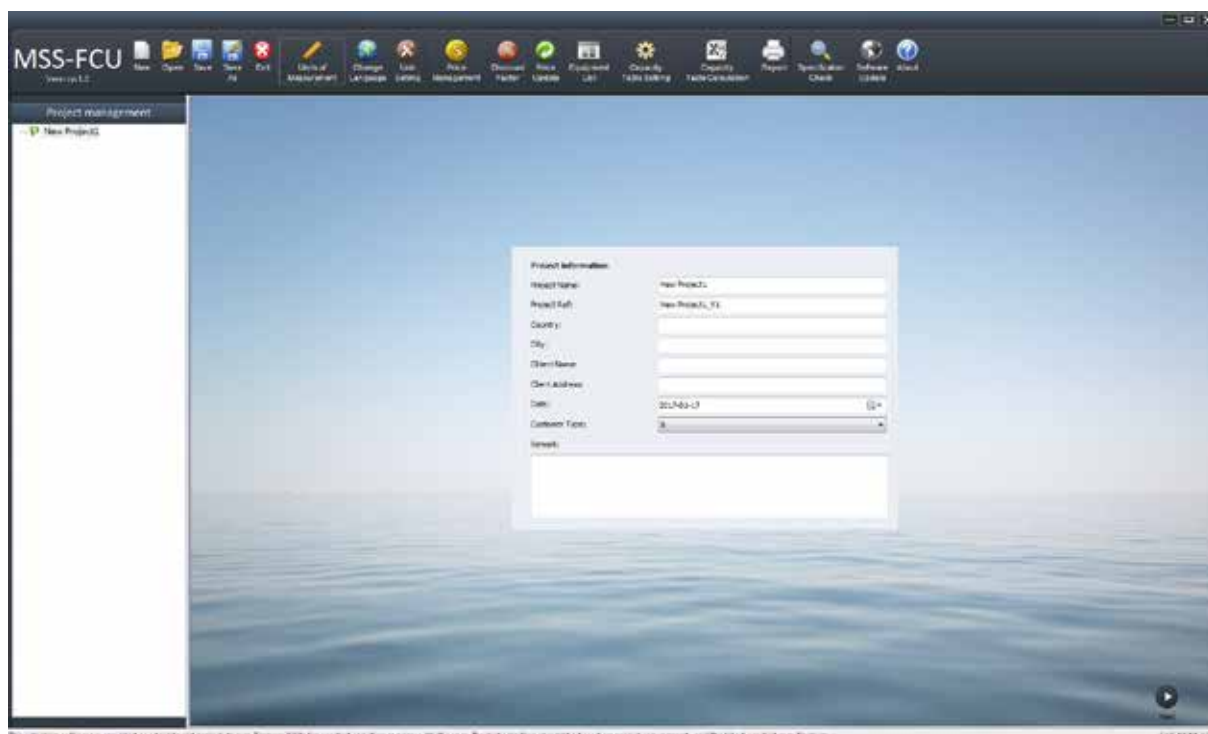
Fan Coil Units



Fan Coil Units

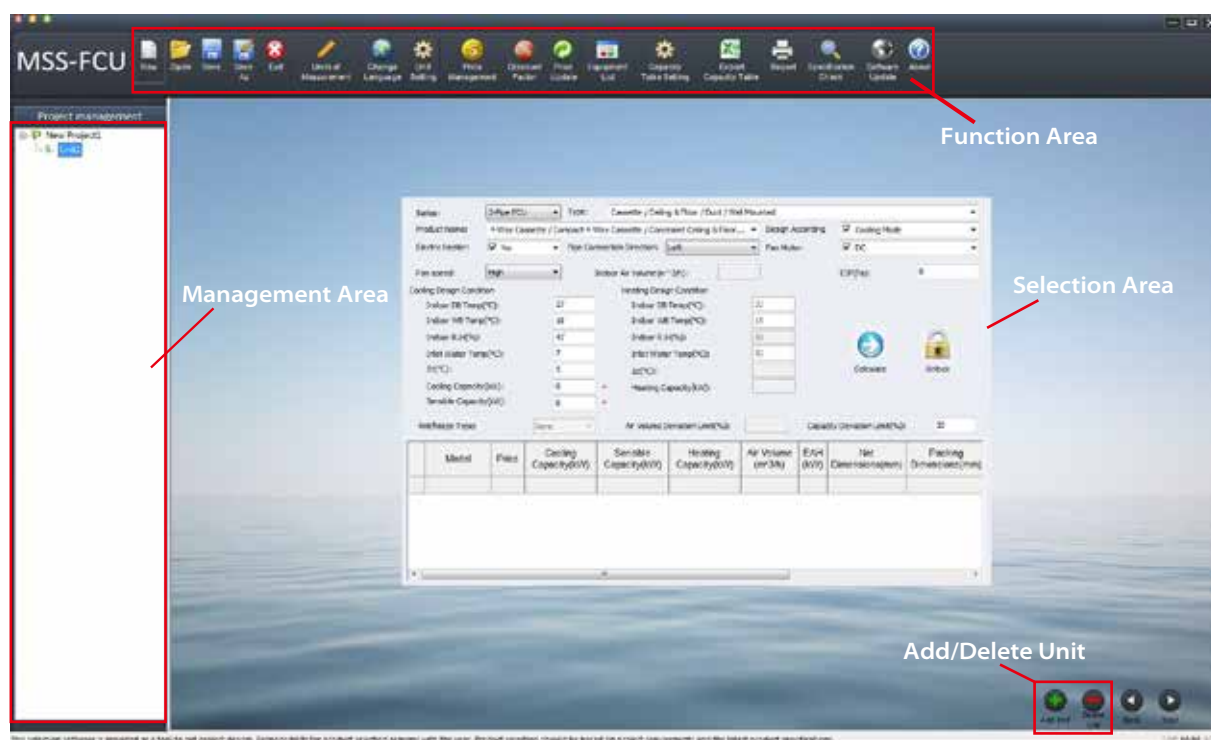
Selection Software

Features >>



- ❖ Select by entering air and water conditions as well as fan speed.
- ❖ Easy to operate interface and visual display.
- ❖ Powerful project management function.

Main Interface >>



	Model	Price	Cooling Capacity
	Required		
☐	MIKA-V600R	-	6.20
☐	MIKA-V750R	-	6.04
☐	MIKA-V850R	-	6.59
☐	MIKA-V950R	-	6.57
☐	MIKA-V1000R	-	6.57

[illegible]



Midea CAC After-service Application



iOS Version



Android Version



Midea CAC News Application



iOS Version

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Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.