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

2009 Midea Commercial Air Conditioners  
**Air-cooled Modular Chiller and FCU**

Midea Commercial Aircon  
**Climate Solution for Green Environment**



# 2009 MIDEA COMMERCIAL A/C LINE UP

## Fan Coil Unit

### Four-way Cassette (Compact)



MKB-R(A): 300-500CFM

### Four-way Cassette



MKA-R(A): 600-1500CFM

### One-way Cassette



MKC-R(A): 300-600CFM

### Exposed Floor-standing



MKF1(2): 150-900CFM

### Concealed Floor-standing



MKF3: 150-900CFM

### Wall-mounted



MKG: 250-600CFM

### 2-Row Duct



MKT2: 200-1400CFM

### 3-Row & 4-Row Duct



MKT3: 200-1200CFM

### High Static Pressure Duct



MKT3H: 600-2000CFM

## Air-cooled Modular Chiller



30.0kW  
8.5USRT



65.0kW  
18.5USRT



130.0kW  
37.0USRT



185.0kW  
52.5USRT

# CONTENTS

## 05 Air-cooled Modular Chiller 13 Fan Coil Unit

## AIR-COOLED MODULAR CHILLER



30.0kW  
8.5USRT



65.0kW  
18.5USRT



130.0kW  
37.0USRT



185.0kW  
52.5USRT

### Introduction

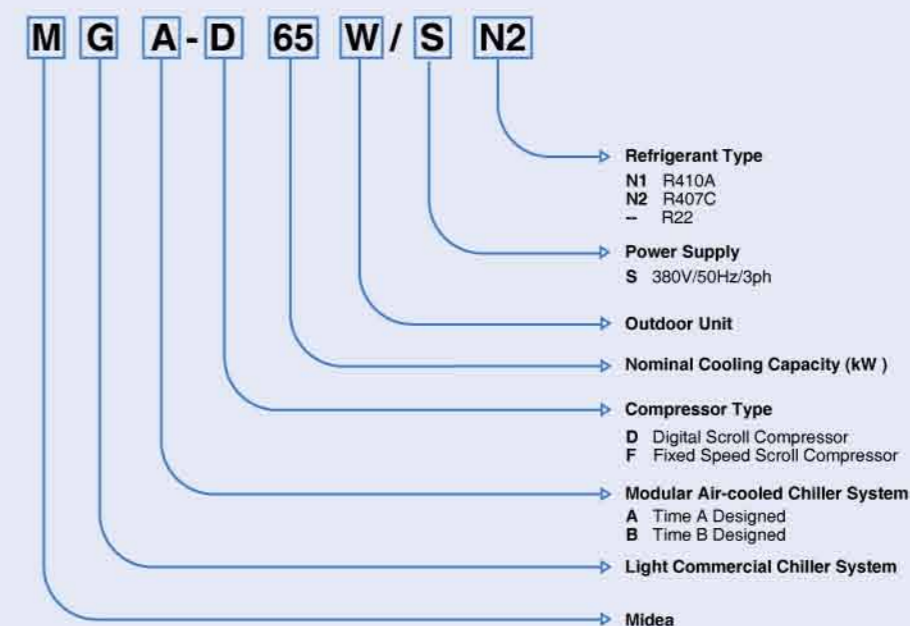
Air-cooled heat-pump unit is a kind of central air-conditioner which adopts air as the cooling (heating) source and water as cooling (heating) medium. As a sort of integrated equipment, it needs no cooling tower, cooling water pump, boiler and corresponding auxiliary parts, which makes the system more simple, saves installation space, convenient maintenance and energy saving, thus it is very suitable for areas that are short of water.

Midea® Digital Scroll Air-cooled modular chiller system is designed and produced on the basement of sufficiently absorbing the top technology in AC areas, adopting self-control components with high quality which made by world famous producers. Moreover, after improvement, unit can run more efficiently and more stably. 30kW module adopts independent unit frame and 65kW & 200kW module consists of two units, and several modules can be formed into a digital scroll air-cooled heat-pump module unit by connecting each module's inlet & outlet pipeline in parallel. The whole unit consists of 1-8 modules (or 2-16 units for 30kW unit) and the max. capacity is 1480kW.

Midea® Digital Scroll air-cooled heat-pump module unit can be widely applied to civilian projects and industrial projects, such as hotel, villa, restaurant, hospital, factory, etc.. It is a wise choice for areas where water is insufficient or there are strict limits on noise level and surroundings.

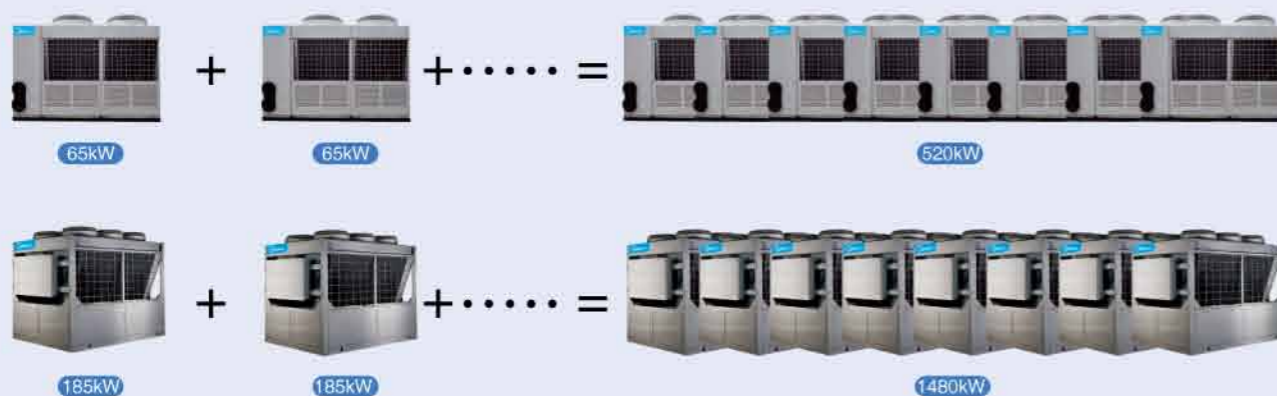
Midea has started to sale this product from 2002.

## HOW TO READ THE MODELS

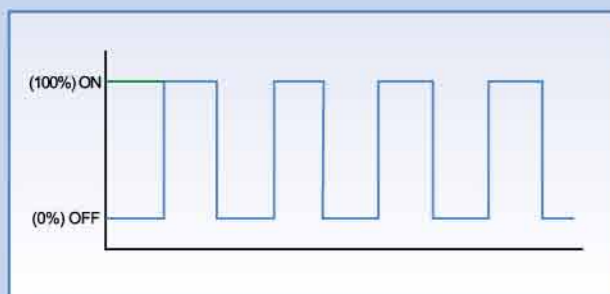


## Features

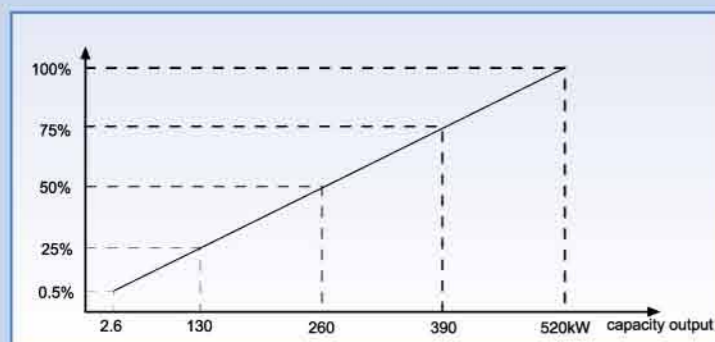
- **Modular design, flexible combination, more convenient for design and installation.**
- **Full range of products are available.**  
4 different capacity models: 30kW, 65kW, 130kW & 200kW.  
Optional refrigerant: R22, R407C & R410A.  
Optional heat-exchanger: plate type heat exchanger & shell-and-tube heat exchanger.
- **The maximum combination of the system consists of 1 main unit and 7 slave units (for 30kW unit, 15 slave units), and the capacity can be up to 1480kW.**



- **Adopts digital scroll compressor, the capacity can be realized stepless adjustment. (The 200kW and 130kW module have only fix-speed scroll compressor.)**



Energy output for traditional air-cooled modular chiller system.

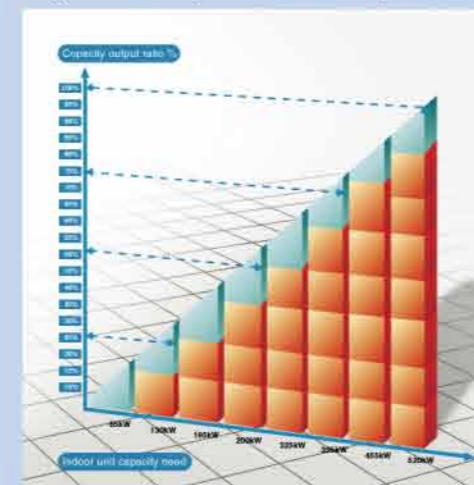


Energy output for digital air-cooled modular chiller system.

- **Chilled water outlet temperature adjustable.**

Chilled water outlet temperature can be adjusted by wired controller according to customer's demand. In cooling mode, the adjustable range from 7°C~12°C, and in heating mode, it ranges from 45°C~50°C.

- **High reliability and efficiency.**

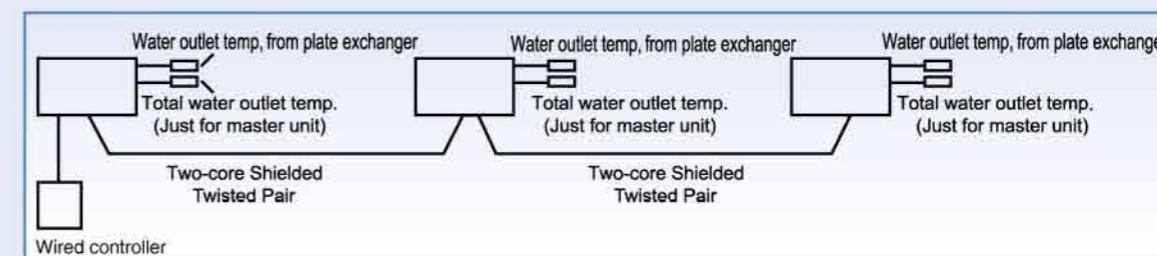


65kW digital model 65kW fixed model

Digital and constant module unit can be combined into one group water pipe system and control system. The capacity output can be adjusted and the load of different module unit can be distributed uniformly by control system. The unit system can adjust output according to requirement without energy waste.

- **Easy connection between main unit and slave units.**

Connecting all the units together with a wired controller in series type. Using two-core shielded twisted wire as communication signal wire. Any of unit can be set as main unit by setting its address No.0, the other as slave units.



- **Strong micro-computer intelligent control and monitor functions.**

Stepless capacity adjustment, more efficiency.  
Optional operation mode: automatic or manual.  
Automatic and uniform adjusting function among multi compressors.  
Anti-frost and anti-cold air function in heating winter.  
Anti-freezing function of water system in cold winter.  
All-sided self-protection and self-diagnosis function.

## Specification

Model		MGA(B)-D30W/S		MGA(B)-F30W/S		MGA(B)-D65W/S		MGA(B)-F65W/S		
		MGA(B)-D30W/SN2		MGA(B)-F30W/SN2		MGA(B)-D65W/SN2		MGA(B)-F65W/SN2		
Cooling capacity	kW	30		30		65		65		
	USRT	8.5		8.5		18.5		18.5		
Heating capacity	kW	32		32		69		69		
	USRT	9.1		9.1		19.6		19.6		
Power supply	V-ph-Hz	380-3-50		380-3-50		380-3-50		380-3-50		
Cooling	Power input	kW	10		10		21.5		21.5	
	Rated current	A	17.3		17.3		18.7x2		18.7x2	
Heating	Power input	kW	9.8		9.8		21		21	
	Rated current	A	17		17		18.4x2		18.4x2	
Compressor	Type	--	Scroll		Scroll		Scroll		Scroll	
	Quantity	Pieces	1 fixed speed plus 1 digital scroll		2 fixed speed		3 fixed speed plus 1 digital scroll		4 fixed speed	
Refrigerant	Type	--	R22 or R407C		R22 or R407C		R22 or R407C		R22 or R407C	
	Charged volume	kg	4.5x2		4.5x2		4.5x4		4.5x4	
Water side heat-exchanger	Type	--	Plate type (Shell-and-tube heat-exchanger is optional.)							
	Water flow volume	m <sup>3</sup> /h	5.2		5.2		11.2		11.2	
		Gpm	22.9		22.9		49.3		49.3	
	Water pressure drop	kPa	29.4		29.4		29.4		29.4	
	Water side max. working pressure	MPa	1		1		1		1	
	Water pipe inlet/outlet diameter	mm	DN100		DN100		DN100		DN100	
Air side heat-exchanger	Type	--	Copper-fin coil							
	Air flow volume	m <sup>3</sup> /h	12000		12000		24000		24000	
	Fan motor power input	kW	0.7x1		0.7x1		0.7x2		0.7x2	
Net dimension (LxWxH)	mm	1514x850x1820		1514x850x1820		2492x850x1820		2492x850x1820		
Packing dimension (LxWxH)	mm	1620x1034x2041		1620x1034x2041		2612x1034x2041		2612x1034x2041		
Shipping weight	kg	440		440		700		700		
Noise level	dB(A)	58		58		60		60		
Optional auxiliary heater	kW	7.5		7.5		15		15		
Control type	--	Wired control. Manual or automatic startup, the running status display and malfunction alarm, etc..								

### Notes:

Nominal capacities are based on the following conditions:

Cooling mode: chilled water inlet/outlet: 12°C/7°C (53.6°F/44.6°F); Outdoor temp. (DB/WB): 35°C/24°C (95°F/75.2°F)

Heating mode: hot water inlet/outlet: 40°C/45°C (104°F/113°F); Outdoor temp. (DB/WB): 7°C/6°C (44.6°F/42.8°F)

Auxiliary electric heaters are not provided. If necessary, the users may refer to the above table's parameter about auxiliary electric heater and configure themselves.

Optional accessory: 1 set wired controller (model: KJR-08B/BE) and 1 set water flow switch (model: WFS-1001-H) is needed in 1 combination system. Please notice that they are not standard accessory.

## Specification

Model		MGA-F30W/SN1		MGA-F65W/SN1		MGA-D30W/SN1		MGA-D65W/SN1		
		Cooling capacity	kW	30		65		30		65
USRT	8.5		18.5		8.5		18.5			
Heating capacity	kW	32		69		32		69		
	USRT	9.1		19.6		9.1		19.6		
Power supply	V-ph-Hz	380-3-50		380-3-50		380-3-50		380-3-50		
Cooling	Power input	kW	10		21.5		10		21.5	
	Rated current	A	17.3		18.7x2		17.3		18.7x2	
Heating	Power input	kW	9.8		24		9.8		24	
	Rated current	A	17		18.4x2		17		18.4x2	
Compressor	Type	--	Scroll		Scroll		Scroll		Scroll	
	Quantity	Pieces	2 fixed speed		4 fixed speed		1 digital scroll plus 1 fixed speed		1 digital scroll plus 3 fixed speed	
Refrigerant	Type	--	R410A		R410A		R410A		R410A	
	Charged volume	kg	7		14		7		14	
Water side heat-exchanger	Type	--	Plate type							
	Water flow volume	m <sup>3</sup> /h	5.2		11.2		5.2		11.2	
		Gpm	22.9		49.3		22.9		49.3	
	Water pressure drop	kPa	29.4		29.4		29.4		29.4	
	Water side max. working pressure	MPa	1		1		1		1	
	Water pipe inlet/outlet diameter	mm	DN100		DN100		DN100		DN100	
Air side heat-exchanger	Type	--	Copper-fin coil							
	Air flow volume	m <sup>3</sup> /h	11000		22000		11000		22000	
	Fan motor power input	kW	0.67		0.67x2		0.67		0.67x2	
Net dimension (LxWxH)	mm	1514x850x1820		2492x850x1820		1514x850x1820		2492x850x1820		
Packing dimension (LxWxH)	mm	1620x1034x2041		2612x1034x2041		1620x1034x2041		2612x1034x2041		
Shipping weight	kg	440		700		440		700		
Noise level	dB(A)	58		60		58		60		
Optional auxiliary heater	kW	7.5		15		7.5		15		
Control type	--	Wired control. Manual or automatic startup, the running status display and malfunction alarm, etc..								

### Notes:

Nominal capacities are based on the following conditions:

Cooling mode: chilled water inlet/outlet: 12°C/7°C (53.6°F/44.6°F); Outdoor temp. (DB/WB): 35°C/24°C (95°F/75.2°F)

Heating mode: hot water inlet/outlet: 40°C/45°C (104°F/113°F); Outdoor temp. (DB/WB): 7°C/6°C (44.6°F/42.8°F)

Auxiliary electric heaters are not provided. If necessary, the users may refer to the above table's parameter about auxiliary electric heater and configure themselves.

Optional accessory: 1 set wired controller (model: KJR-08B/BE) and 1 set water flow switch (model: WFS-1001-H) is needed in 1 combination system. Please notice that they are not standard accessory.

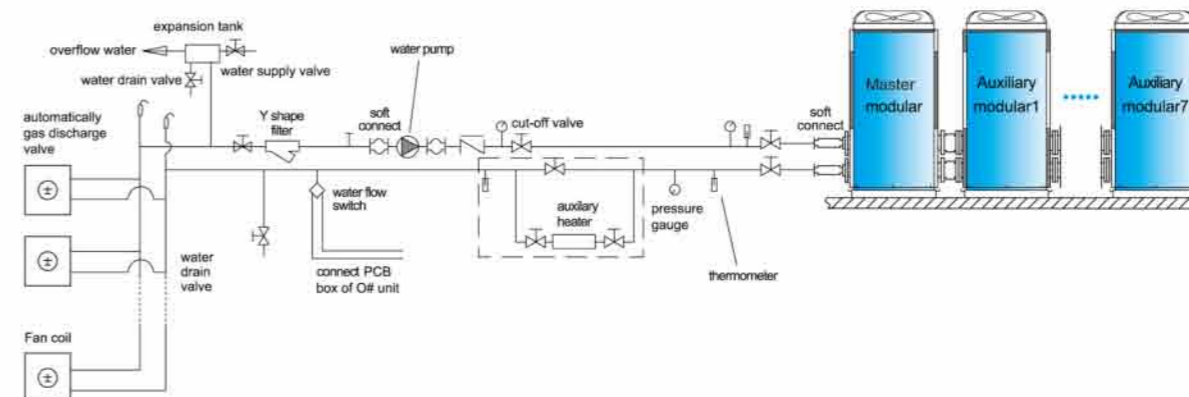
## Specification

Model			MGA-F130W/S	MGA-F200W/S
Cooling capacity		kW	130	185
		USRT	36.96	52.6
Heating capacity		kW	138	200
		USRT	39.24	56.87
Power supply		V-ph-Hz	380-3-50	380-3-50
Cooling	Power input	kW	43	62
	Rated current	A	18.7x4	123
Heating	Power input	kW	39	60
	Rated current	A	18.4x4	119
Compressor	Type	--	Scroll	Scroll
	Quantity	Pieces	8 fixed speed	12 fixed speed
Refrigerant	Type	--	R22	R22
	Charged volume	kg	32	70
Water side heat-exchanger	Type	--	Plate heat-exchanger	Shell-and-tube heat-exchanger
	Water flow volume	m³/h	22.4	31.8
		Gpm	98.6	139.9
	Water pressure drop	kPa	12	15
	Water side max. working pressure	MPa	2.6	1
Water pipe inlet/outlet diameter	mm	DN65	DN100	
Air side heat-exchanger	Type	--	Copper-fin coil	Copper-fin coil
	Air flow volume	m³/h	44000	78000
	Fan motor power input	kW	0.67x4	1.0x6
Net dimension (LxWxH)	mm		2200x1700x2180	3210x2060x2430
Shipping weight	kg		1480	2720
Running weight	kg		1600	3000
Noise level		dB(A)	64	65
Optional auxiliary heater		kW	30	45
Control type		--	Wired control. Manual or automatic startup, the running status display and malfunction alarm, etc..	

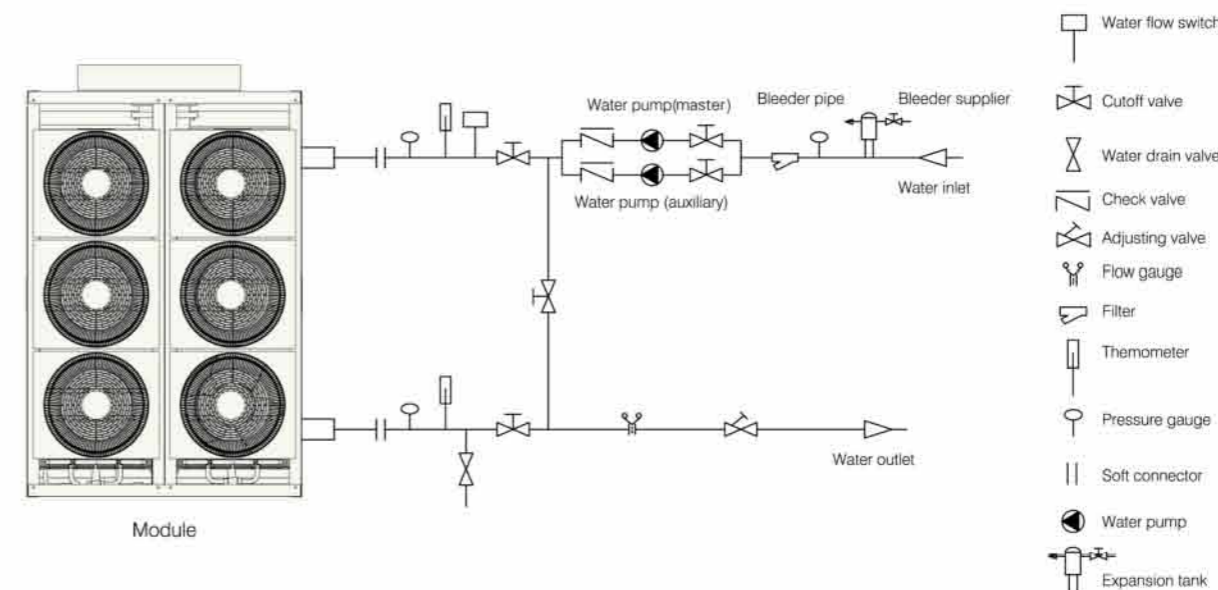
**Notes:**

Nominal capacities are based on the following conditions:  
 Cooling mode: chilled water inlet/outlet: 12°C/7°C (53.6°F/44.6°F); Outdoor temp. (DB/WB): 35°C/24°C (95°F/75.2°F)  
 Heating mode: hot water inlet/outlet: 40°C/45°C (104°F/113°F); Outdoor temp. (DB/WB): 7°C/6°C (44.6°F/42.8°F)  
 Auxiliary electric heaters are not provided. If necessary, the users may refer to the above table's parameter about auxiliary electric heater and configure themselves.  
 Optional accessory: 1 set wired controller (model: KJR-08B/BE) and 1 set water flow switch (model: WFS-1001-H) is needed in 1 combination system. Please notice that they are not standard accessory.

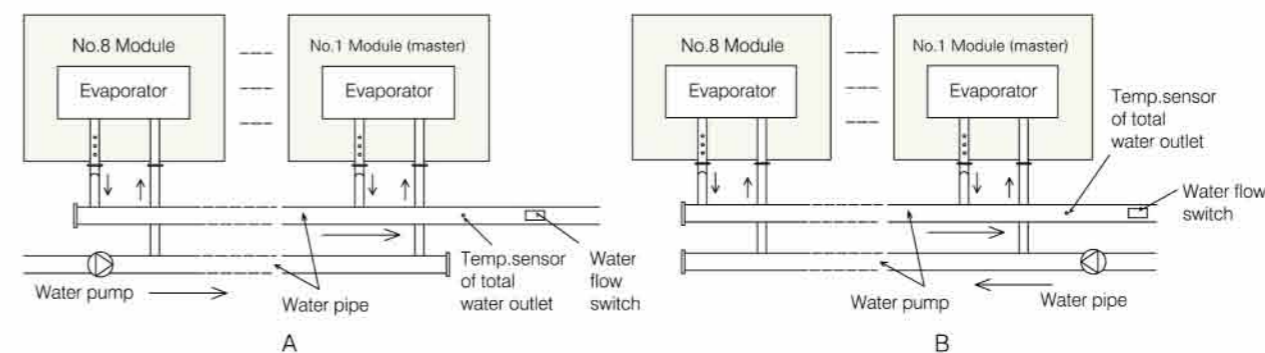
## Sketch of 30kW and 65kW module connection



## Sketch of 200kW module connection



## Multi modules connection

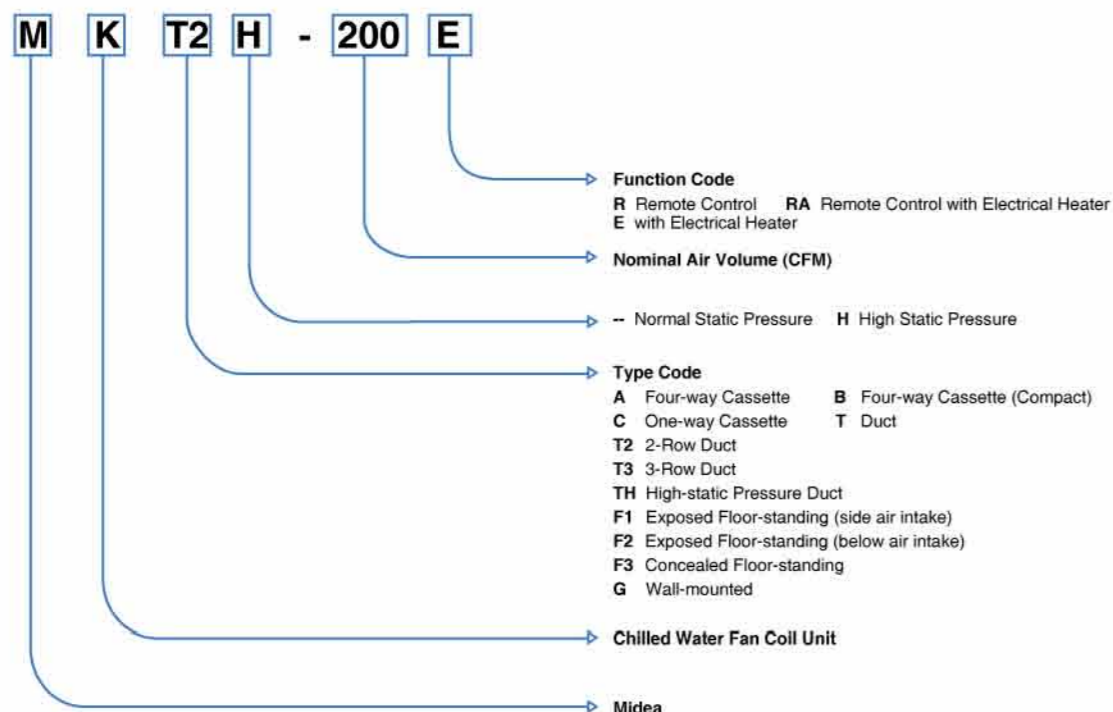


**Remarks:**

For the 30kW and 65kW system, if electrical two-way valve used for all terminals and they are all close when main unit is operating, the plate exchanger may be damaged. So pass-by adjusting valve should be set in the system.  
 If there is no any pass-by adjusting valve in the system, the number of fan coil with two-way water valve should not over 50%.

# FAN COIL UNIT

## HOW TO READ THE MODELS



## Brief Introduction

The Midea® Fan Coil Unit is designed and manufactured on the base of advanced technology, and utilizes qualified galvanized iron as structure material. Due to its super-thin design, it has such advantages: beautiful outlook, space saving, easy installation, etc. And the most obvious advantage is that it can decrease the outlet air temperature difference as low as possible to make the room more comfortable, as well as doesn't reduce the cooling capacity output. For the large air flow volume design, it can increase room ventilation frequency, supply more fresh air, and balance room temperature distribution. Benefiting from adoption of advanced material and technology, it can effectively reduce the running noise and keep running smoothly. With the advantages above, it can be widely applied in market, hospital, office building, hotel, airport, and etc..

The Midea® Fan Coil Unit contains ceiling exposed type, ceiling concealed type, wall-mounted type and floor standing type. And the air volume varies from 150 CFM~2,200 CFM (255 m<sup>3</sup>/h~3740 m<sup>3</sup>/h). The standard power supply is 220-240V/1 phase/50Hz. Also the other power sources are available.

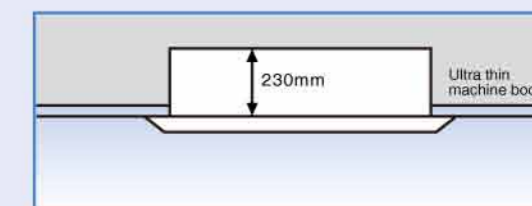
## Four-way Cassette

## Fan Coil Unit



## Features

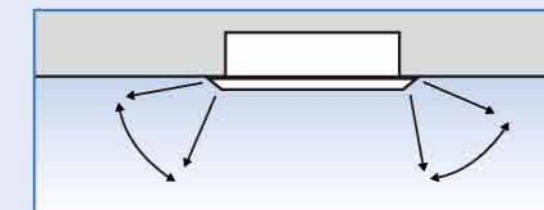
- **Ultra thin machine body to easy installation and maintenance: 600~750CFM: 230mm, 850~1500CFM: 300mm.**



- **Different color panels for choose: White, Gray, Blue, Black.**



- **The swing angle of the first louver are 40~42 degrees and the second louver are 37~38 degrees.**

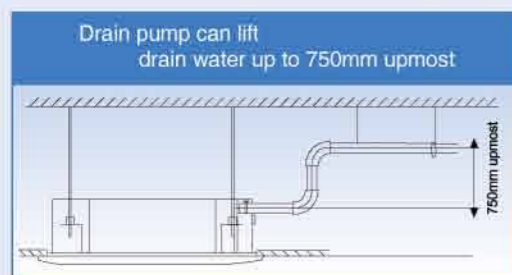


- **Adding digital tube displaying on the display board. LED can display the Error Code to make the malfunction checking easier.**





### ■ Built-in water pump with 750mm pumping head.



## Specification

Model		MKA-600R(A)	MKA-750R(A)	MKA-850R(A)	MKA-950R(A)	MKA-1200R(A)	MKA-1500R(A)
Nominal air volume (Hi Speed)	CFM	600	750	850	950	1200	1500
	m <sup>3</sup> /h	1000	1250	1400	1600	2000	2550
Cooling capacity	Btu/h	19510	23840	24800	28050	35450	43900
	kW	5.72	6.99	7.27	8.22	10.39	12.87
Heating capacity	Btu/h	32970	39420	42360	47240	60000	71800
	kW	9.66	11.55	12.42	13.85	17.59	21.05
Water flow volume	m <sup>3</sup> /h	0.98	1.20	1.25	1.41	1.78	2.21
Water pressure drop	kPa	23.8	25.2	27	30	44	46
Auxiliary electrical heater	kW	2.1	2.1	2.7	2.7	2.7	2.7
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G	3/4G	3/4G
Noise level	dB(A)	48	48	49	52	54	56
Unit weight	kg	29	29	35	35	35	35
Panel weight	kg	6	6	6	6	6	6
Unit gross weight	kg	36	36	42	42	42	42
Panel gross weight	kg	9	9	9	9	9	9
Net dimension (WxHxD)	mm	840x230x840	840x230x840	840x300x840	840x300x840	840x300x840	840x300x840
Panel dimension (WxHxD)	mm	950x46x950	950x46x950	950x46x950	950x46x950	950x46x950	950x46x950
Packing dimension (WxHxD)	mm	955x247x955	955x247x955	955x317x955	955x317x955	955x317x955	955x317x955
Panel packing dimension (WxHxD)	mm	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035

The auxiliary electrical heater is only available for the MKA-xxxRA models.

## Four-way Cassette (Compact)

## Fan Coil Unit



## Features

### ■ Four-way air outlet makes equal, fast and wide-range cooling.



### ■ Compact design, simple installation and easy maintenance.



### ■ Four speeds fan motor.

### ■ 3-dimensional screw fan reduces the air resistance.



### ■ Built-in water pump with 500mm pumping head.



## Specification

Model		MKB-300R(A)	MKB-400R(A)	MKB-450R	MKB-500R
Nominal air volume (Hi Speed)	CFM	300	400	450	500
	m <sup>3</sup> /h	500	630	710	800
Cooling capacity	Btu/h	10200	12900	17000	18700
	kW	3.0	3.78	4.98	5.48
Heating capacity	Btu/h	15300	19350	26000	28050
	kW	4.49	5.67	7.62	8.22
Water flow volume	m <sup>3</sup> /h	0.52	0.65	0.86	0.94
Water pressure drop	kPa	10.1	14.5	18.3	27.1
Auxiliary electrical heater	kW	1	1	/	/
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G
Noise level	dB(A)	39	43	47	48
Unit weight	kg	23	23	23	23
Panel weight	kg	3	3	3	3
Unit gross weight	kg	29	29	29	29
Panel gross weight	kg	5	5	5	5
Net dimension (WxHxD)	mm	580x254x580	580x254x580	580x254x580	580x254x580
Panel dimension (WxHxD)	mm	650x30x650	650x30x650	650x30x650	650x30x650
Packing dimension (WxHxD)	mm	750x340x745	750x340x745	750x340x745	750x340x745
Panel packing dimension (WxHxD)	mm	715x115x715	715x115x715	715x115x715	715x115x715

The auxiliary electrical heater is only available for the MKB-xxxRA models.

# One-way Cassette

## Fan Coil Unit

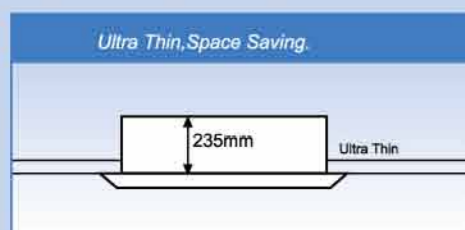


### Features

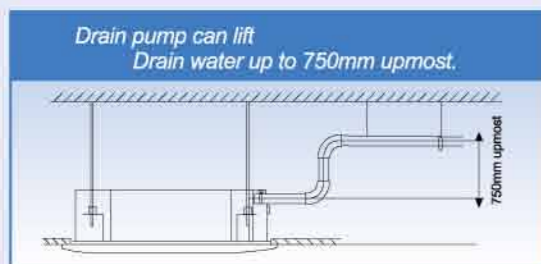
- **Smoother air flow with less turbulence.**  
One direction air flow guarantees quick cooling, flexible installation position.



- **Ultra thin body, space saving (only 235mm (300~400CFM), only 198mm (600CFM)).**



- **Built-in water pump with 750mm pumping head.**



- **Four speeds fan motor.**
- **Fresh air makes life more healthy and comfortable.**

### Specification

Model		MKC-300R(A)	MKC-400R(A)	MKC-600
Nominal air volume (Hi Speed)	CFM	300	400	600
	m <sup>3</sup> /h	500	630	1000
Cooling capacity	Btu/h	10350	12900	19510
	kW	3.04	3.79	5.72
Heating capacity	Btu/h	17500	21850	32970
	kW	5.13	6.4	9.66
Water flow volume	m <sup>3</sup> /h	0.52	0.65	0.87
Water pressure drop	kPa	10.1	14.5	18.3
Auxiliary electrical heater	kW	1	1	/
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G
Noise level	dB(A)	38	40	44
Unit weight	kg	23	23	31
Panel weight	kg	4	4	9
Unit gross weight	kg	27	27	38
Panel gross weight	kg	7	7	12
Net dimension (WxHxD)	mm	850x235x400	850x235x400	1200x198x655
Panel dimension (WxHxD)	mm	1050x18x470	1050x18x470	1420x10x755
Packing dimension (WxHxD)	mm	1080x310x460	1080x310x460	1380x265x775
Panel packing dimension (WxHxD)	mm	1120x172x540	1120x172x540	1500x110x870

The auxiliary electrical heater is only available for the MKC-xxxRA models.

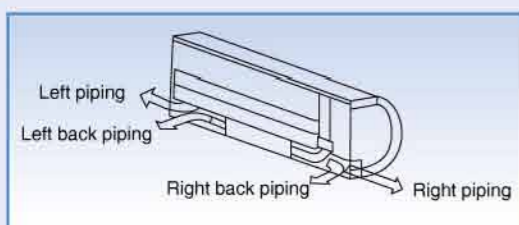
## Wall-mounted

## Fan Coil Unit



### Features

- Panel color is optional.
- Multi-function LED display.
- Multi-color of panel for customer's choice.
- Built-in 3-way electromagnetic valve.
- Multi pipe connection directions to meet varies installation rooms.



- Air cleaning devices and high efficiency filter keep the air clean.

### Specification

Model		MKG-250	MKG-300	MKG-400	MKG-500	MKG-600
Nominal air volume (Hi Speed)	CFM	250	300	400	500	600
	m <sup>3</sup> /h	425	510	680	850	1020
Cooling capacity	Btu/h	7500	9000	10500	13900	15200
	kW	2.2	2.6	3.1	4.1	4.5
Heating capacity	Btu/h	10300	12590	14800	19000	21500
	kW	3.0	3.7	4.3	5.6	6.3
Water flow volume	m <sup>3</sup> /h	0.45	0.45	0.53	0.70	0.80
Water pressure drop	kPa	12	18	22	26	29
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G	3/4G
Noise level	dB(A)	30	35	35	38	38
Unit weight	kg	12	12	12	15	15
Gross weight	kg	16	16	16	19	19
Net dimension (WxHxD)	mm	915x210x290	915x210x290	915x210x290	1070x210x315	1070x210x315
Packing dimension (WxHxD)	mm	1020x300x385	1020x300x385	1020x300x385	1180x300x410	1180x300x410

## 2-Row Duct

## Fan Coil Unit



### Features

- Whole new structure makes the installation and the maintenance much easier.
- New 4-speed motor expands the working range of single model.
- Two external static pressure series (12Pa and 30Pa) give you more choices for variable applications, and 50Pa can be customized.
- 2-Row coil makes the units with lower weight and smaller installation space.
- For the models with auxiliary electrical heater, the new electronic thermostat and air back plenum are standard.

### Model List

12 Pa ESP	MKT2-200	MKT2-300	MKT2-400	MKT2-500	MKT2-600	MKT2-800	MKT2-1000	MKT2-1200	MKT2-1400
30 Pa ESP	MKT2H-200	MKT2H-300	MKT2H-400	MKT2H-500	MKT2H-600	MKT2H-800	MKT2H-1000	MKT2H-1200	MKT2H-1400
12 Pa ESP with AEH	MKT2-200E	MKT2-300E	MKT2-400E	MKT2-500E	MKT2-600E	MKT2-800E	MKT2-1000E	MKT2-1200E	MKT2-1400E
30 Pa ESP with AEH	MKT2H-200E	MKT2H-300E	MKT2H-400E	MKT2H-500E	MKT2H-600E	MKT2H-800E	MKT2H-1000E	MKT2H-1200E	MKT2H-1400E

AEH = Auxiliary Electrical Heater

## Specification

Model		MKT2(H)-200(E)	MKT2(H)-300(E)	MKT2(H)-400(E)	MKT2(H)-500(E)	MKT2(H)-600(E)	
Air volume (Hi Speed)	CFM	200	300	400	500	600	
	m <sup>3</sup> /h	340	510	680	850	1020	
Cooling capacity	Btu/h	6850	9250	12300	15350	18450	
	kW	2.0	2.7	3.6	4.5	5.4	
Heating capacity	Btu/h	10950	14700	18450	23200	27650	
	kW	3.2	4.3	5.4	6.8	8.1	
Auxiliary electrical heater	kW	0.5	0.65	1	1	1.5	
Water flow volume	m <sup>3</sup> /h	0.34	0.46	0.62	0.77	0.93	
Water pressure drop	kPa	9.9	11	21	12.7	17.5	
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G	3/4G	
Noise level	dB(A)	36	37.7	39.8	43	44	
Unit weight	kg	12	13	15	19	19	
Gross weight	kg	14	17	19	22	22	
Net dimension (W×H×D)	Without AEH	mm	770×240×490	827×240×490	927×240×490	1140×240×490	1140×240×490
	With AEH	mm	770×242×534	827×242×534	927×242×534	1140×242×534	1140×242×534
Packing dimension	Without AEH	mm	786×265×515	841×265×515	941×265×515	1155×265×515	1155×265×515
	With AEH	mm	806×265×558	871×265×558	971×265×558	1180×265×558	1180×265×558

Model		MKT2(H)-800(E)	MKT2(H)-1000(E)	MKT2(H)-1200(E)	MKT2(H)-1400(E)	
Air volume (Hi Speed)	CFM	800	1000	1200	1400	
	m <sup>3</sup> /h	1360	1700	2040	2380	
Cooling capacity	Btu/h	24550	30700	37550	44350	
	kW	7.2	9	11	13	
Heating capacity	Btu/h	37550	46050	56300	66550	
	kW	11.0	13.5	16.5	19.5	
Auxiliary electrical heater	kW	2	2	3	3	
Water flow volume	m <sup>3</sup> /h	1.23	1.55	1.89	2.23	
Water pressure drop	kPa	13.6	20	35	40	
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G	
Noise level	dB(A)	44	46	47	48	
Unit weight	kg	27	29	33	34	
Gross weight	kg	29	34	37	38	
Net dimension (W×H×D)	Without AEH	mm	1440×240×490	1546×240×490	1835×240×490	1835×240×490
	With AEH	mm	1440×242×534	1546×242×534	1835×242×534	1835×242×534
Packing dimension	Without AEH	mm	1454×265×515	1560×265×515	1850×265×515	1850×265×515
	With AEH	mm	1485×265×558	1590×265×558	1880×265×558	1880×265×558

The auxiliary electrical heater is only available for MKT2-xxxE and MKT2H-xxxE series.

## 3-Row & 4-Row Duct

## Fan Coil Unit



## Features

- The same structure as 2-Row duct type.
- Two external static pressure series (12Pa and 30Pa) give you more choices for variable applications, and 50Pa can be customized.
- 3-Row coil produces more capacity.

## Model List

12 Pa ESP	MKT3-200	MKT3-300	MKT3-400	MKT3-500	MKT3-600	MKT3-800	MKT3-1000	MKT3-1200
30 Pa ESP	MKT3H-200	MKT3H-300	MKT3H-400	MKT3H-500	MKT3H-600	MKT3H-800	MKT3H-1000	MKT3H-1200

## Specification

## 3-Row Duct

Model		MKT3(H)-200	MKT3(H)-300	MKT3(H)-400	MKT3(H)-500
Air volume (Hi Speed)	CFM	200	300	400	500
	m <sup>3</sup> /h	340	510	680	850
Cooling capacity	Btu/h	7510	12625	16030	19790
	kW	2.2	3.7	4.7	5.8
Heating capacity	Btu/h	10920	18765	24225	29345
	kW	3.2	5.5	7.1	8.6
Water flow volume	m <sup>3</sup> /h	0.38	0.64	0.81	1.0
Water pressure drop	kPa	14	20	22	24
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G
Noise level	dB(A)	36	37	40	43
Unit weight	kg	13	15	17	17
Gross weight	kg	16	18	20	20
Net dimension (WxHxD)	mm	770x240x490	827x240x490	927x240x490	927x240x490
Packing dimension (WxHxD)	mm	786x265x515	841x265x515	941x265x515	941x265x515

## Specification

## 4-Row Duct

Model		MKT-1200	MKT-1500	MKT-2000
Air volume (Hi Speed)	CFM	1200	1500	2000
	m <sup>3</sup> /h	2040	2550	3400
Cooling capacity	Btu/h	42930	47665	61035
	kW	12.6	14.0	17.9
Heating capacity	Btu/h	47770	59880	79840
	kW	14.0	17.6	23.4
Water flow volume	m <sup>3</sup> /h	2.16	2.4	3.08
Water pressure drop	kPa	26.2	30.7	47
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G
Static pressure	Pa	12	12	12
Noise level	dB(A)	50	53	54
Unit weight	kg	39	39	47
Gross weight	kg	47	47	56
Net dimension (WxHxD)	mm	1369x340x490	1369x340x590	1500x340x590
Packing dimension (WxHxD)	mm	1433x381x569	1433x381x619	1554x381x619

Model		MKT3(H)-600	MKT3(H)-800	MKT3(H)-1000	MKT3(H)-1200
Air volume (Hi Speed)	CFM	600	800	1000	1200
	m <sup>3</sup> /h	1020	1360	1700	2040
Cooling capacity	Btu/h	23540	27640	33440	41285
	kW	6.9	8.1	9.8	12.1
Heating capacity	Btu/h	35145	41285	50500	61760
	kW	10.3	12.1	14.8	18.1
Water flow volume	m <sup>3</sup> /h	1.19	1.4	1.68	2.1
Water pressure drop	kPa	34	34	40	42
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G
Noise level	dB(A)	45	46	48	49
Unit weight	kg	20	27	32	36
Gross weight	kg	24	31	37	41
Net dimension (WxHxD)	mm	1140x240x490	1440x240x490	1546x240x490	1835x240x490
Packing dimension (WxHxD)	mm	1155x265x515	1454x278x515	1560x265x515	1850x265x515

# High Static Pressure Duct

# Fan Coil Unit



## Features

- High air volume, high static pressure, high capacity.
- Includes air plenum and air filters.



- Easy to clean or change the air filter.



- Extra drain pan to protecting your ceiling.



- Auxiliary electrical heater is optional.



## Model List

Without AEH	MKT3H-800G70	MKT3H-1000G70	MKT3H-1200G70	MKT3H-1400G70	MKT3H-1600G100	MKT3H-1800G100	MKT3H-2200G100
With AEH	MKT3H-800EG70	MKT3H-1000EG70	MKT3H-1200EG70	MKT3H-1400EG70	MKT3H-1600EG100	MKT3H-1800EG100	MKT3H-2200EG100

## Specification

Model		MKT3H-800(E)G70	MKT3H-1000(E)G70	MKT3H-1200(E)G70	MKT3H-1400(E)G70
Air volume (Hi Speed)	CFM	600	800	1000	1200
	m³/h	1020	1360	1700	2040
Cooling capacity	Btu/h	22000	30000	34000	41000
	kW	6.5	8.8	10	12
Heating capacity	Btu/h	33000	45000	51000	61000
	kW	9.7	13.2	14.9	17.9
Auxiliary electrical heater	kW	5	5	5	5
External static pressure	Pa	70	70	70	70
Water flow volume	m³/h	1.11	1.51	1.71	3.07
Water pressure drop	kPa	14	20	22	24
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G
Noise level	dB(A)	62	61	61	60
Unit weight	kg	50	52	52	54
Unit weight (with AEH)	kg	53	55	55	57
Gross weight	kg	55	57	57	59
Gross weight (with AEH)	kg	58	60	60	62
Net dimension (WxHxD)	mm	946x400x816	946x400x816	946x400x816	946x400x816
Net dimension (with AEH)	mm	946x400x876	946x400x876	946x400x876	946x400x876
Packing dimension (WxHxD)	mm	1015x480x857	1015x480x857	1015x480x857	1015x480x857
Packing dimension (with AEH)	mm	1015x480x925	1015x480x925	1015x480x925	1015x480x925

Model		MKT3H-1600(E)G100	MKT3H-1800(E)G100	MKT3H-2200(E)G100
Air volume (Hi Speed)	CFM	1400	1600	2000
	m³/h	2380	2730	3400
Cooling capacity	Btu/h	48000	54000	68000
	kW	14.1	15.8	19.9
Heating capacity	Btu/h	72000	81000	102000
	kW	21.1	23.7	29.9
Auxiliary electrical heater	kW	10	10	10
External static pressure	Pa	100	100	100
Water flow volume	m³/h	2.42	2.72	3.43
Water pressure drop	kPa	52	90	130
Inlet/outlet pipe	Inch	3/4G	3/4G	3/4G
Noise level	dB(A)	62	63	66
Unit weight	kg	76	76	76
Unit weight (with AEH)	kg	82	82	82
Gross weight	kg	83	83	83
Gross weight (with AEH)	kg	89	89	89
Net dimension (WxHxD)	mm	1290x400x809	1290x400x809	1290x400x809
Net dimension (with AEH)	mm	1290x400x874	1290x400x874	1290x400x874
Packing dimension (WxHxD)	mm	1368x460x877	1368x460x877	1368x460x877
Packing dimension (with AEH)	mm	1368x460x950	1368x460x950	1368x460x950

The auxiliary electrical heater is only available for MKT3H-xxxE series.

# Floor-standing (Exposed & Concealed) Fan Coil Unit



**MKF1 Series** with air intake from front  
(Available **MKF2 Series** with air intake from the bottom)



**MKF3 Series** with air intake from the bottom

## Features

- All metal parts are made of commercial grade galvanized steel, providing maximum protection against corrosion.
- Designed and tested in accordance with ARI440 and BS5141, ensured excellent performance and reliability.
- Soft, streamlined appearance.
- Modular design for horizontal louver.
- If the inlet water temperature is higher than 20°C in cooling mode or lower than 35°C in heating mode, the fan will be shut down automatically to maintain the comfort.
- Electromagnetic 3-way valve can be built inside.



Wide Range of Series (27 models in all)

MKF1	150	250	300	400	450	500	600	800	900
MKF2	150	250	300	400	450	500	600	800	900
MKF3	150	250	300	400	450	500	600	800	900

## Specification

Model		150	250	300	400	450	500	600	800	900
Nominal air volume	CFM	150	250	300	400	450	500	600	800	900
	m <sup>3</sup> /h	255	425	510	680	765	850	1020	1360	1530
Cooling capacity	Btu/h	3925	6380	8630	11185	12475	16550	19245	22245	26785
	kW	1.15	1.87	2.53	3.27	3.97	4.85	5.64	6.52	7.85
Heating capacity	Btu/h	8665	14230	19245	24635	30195	35075	41765	52375	62100
	kW	2.54	4.17	5.64	7.22	8.85	10.28	12.24	15.35	18.2
Water flow	m <sup>3</sup> /h	0.20	0.32	0.44	0.58	0.68	0.83	0.97	1.12	1.35
Water pressure drop	kPa	16	10.5	17.7	21.1	19.4	20.5	15.2	24.3	21.6
Noise level	dB	32	35	37	39	41	43	44	46	48
Water inlet/outlet pipe	Inch	3/4G	3/4G	3/4G	3/4G	3/4G	3/4G	3/4G	3/4G	3/4G
Weight (kg)	F1 & F2	22.5		26		32.5		39		
	F3	17		20		25		32		
Dimension (mm)	F1 & F2	800x220x626		1000x220x626		1200x220x626		1500x220x626		
	F3	550x212x545		750x212x545		950x212x545		1250x212x545		

## Controllers

### R05/BGE Wireless Remote Controller



High-grade remote controller, Light background, LCD display screen, Clock function, ON/OFF/Temp. setting/Mode setting/Fan speed setting/Horizontal swing/Vertical swing setting functions.

### R51/E Wireless Remote Controller



On base of common remote controller. LCD display screen, Clock function, ON/OFF/Temp. setting/Mode setting/Fan speed setting, etc..

### KJR-07B Fan Coil CCM



Suitable for FCU. It can query and control the units not only master unit but also slave unit.

### KJR-08B/BE Air-cooled Modular Chiller Wired Controller



Suitable for air-cooled chiller system, control function as ON/OFF/Mode select/Temp. setting/Query. Compared to the former controller, it adds the Power failure memory/Light background functions.

### CCM10 LCD Touch Screen of Air-cooled Heat Pump Module Chiller



It can control 8 units, 16 compressors. Control function as Query/Mode setting/Lock/Weekly timer setting/Power failure memory.

### KJR-15B Floor-standing Fan Coil Unit Thermostat



Suitable for floor-standing fan coil unit. Control function as ON/OFF/Mode setting/Temp. setting/Fan speed setting.

### KJR-15B/(P) Floor-standing Fan Coil Unit Thermostat



Basic functions are the same as KJR-15B, but it has the cold air preventing function.

### KJR-18B Fan Coil Unit Mechanical Type Thermostat



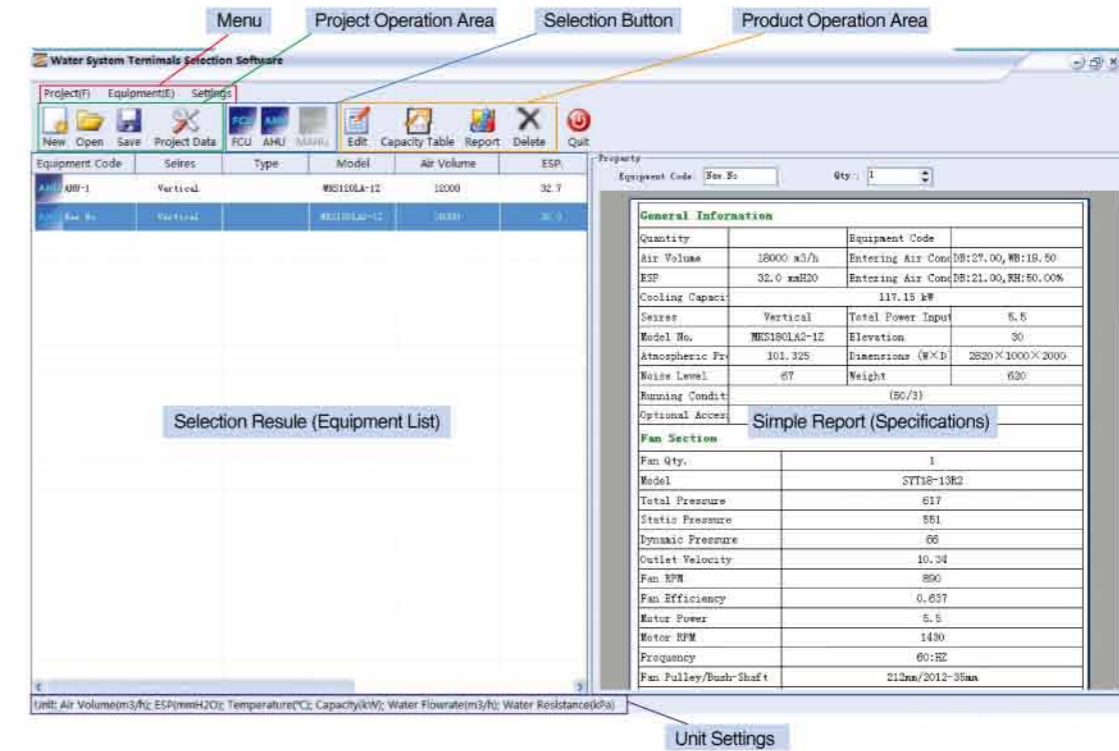
Suitable for fan coil unit. Control function as ON/OFF/Mode setting/Temp. setting/Fan speed setting.



# Selection Software



# Main Interface



# Features

- The products of this selection software contain Fan Coil Unit, standard Air Handling Unit and Modular Air Handling Unit.
- You can make selections under varies entering air conditions, entering water conditions and different fan speed settings.
- The interface is very visualized, which makes the operation easy.
- Powerful project management function.

# FCU Selection Interface

