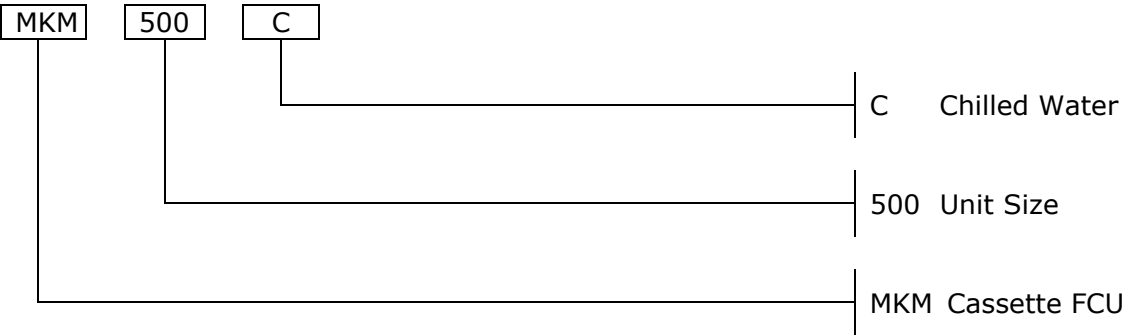


CEILING CASSETTE
50/60 hz
500cfm to 1500cfm



We Deliver Air
For Your Ideal Enviroment

Cassette Type Fan Coil Unit



Features

Slim and Compact Design

Light and rigid construction due to the compact and strong structural design of the unit. Slim unit design also fulfills the stringent space requirement of today's building design. High Air Volume FCU with the height of only 430mm is most suitable for application that demand for high air flow but with space saving in mind.

High Efficiency Heat Exchanger

High quality copper pipes with slit profile aluminium fins are being transformed into high efficiency heat exchanger through advance design, manufacturing equipment and processes.

Low Noise

Through stringent static and dynamic balancing tests of motors, coupled with high quality thermal and acoustic insulation in the unit, superb low noise performance is achieved.

Multiple ESP Options

Standard fan coil units come with low ESP (0Pa) and high ESP (30Pa and 60Pa) options to suit different applications. High Air Volume FCU comes with Standard ESP (40 Pa) and High ESP (130 Pa) options to add to the product line up.

Simple Installation

Unique design of the fan coil units allow easy on-site modifications of water pipes configuration (left or right). Accessories are also available to ensure trouble-free installation.

Easy Maintenance

The fan coil units are equipped with high quality electrical motor with low noise bearing that do not require lubrication and thus minimum maintenance effort required. Blowers and also motors can be dismantled individually if cleaning of heat exchanger is needed. High efficiency filter provides better filtration than normal filter with longer operational life and easy to clean.

No Leakage

One piece molded drain pan with integral thermal insulation and professional welding skill enable all condensate water to be collected and prevent condensation at the outside of the drain pan.

Superior Product Quality

All fan coil units are manufactured in a ISO9001:2000 and ISO14000:2004 certified manufacturing facility whereby highest products' quality is always top priority. The products' high quality standard has been recognized through successfully obtaining the CE marking certification which in turn comply with the stringent EU requirements.



General Data - Ceiling Cassette FCU 50/60Hz

Model		MKM	500C	600C	1000C	1400C
Air Flow	High	CMH	850	1003	1598	2550
		CFM	500	590	940	1500
	Medium	CMH	731	850	1360	2176
		CFM	430	500	800	1280
	Low	CMH	595	714	1156	1836
		CFM	350	420	680	1080
Total Cooling Capacity	High	W	4500	5700	8220	12900
Fan	Type		Centrifugal forward curved blades			
Fan Motor	Type		Low Noise 4-Speed			
Rated Power Input	at ESP: 0 Pa	W	76	90	145	225
Cooling Coil	Type		Seamless copper tube mechanically bonded to aluminum hydrophilic Fin			
	Pipe Connection	mm(in)	DN20 (3/4") - Female Threaded			
	Water Flow Rate	l/s	0.22	0.27	0.40	0.62
	Water Pressure Drop	kPa	16.0	23.8	31.2	40.0
Net Weight		kg	26	35	38	40
Unit Dimension	Length	mm	570	835	835	
	Width	mm	570	835	835	
	Height	mm	260	250	290	
Panel Dimension	Length	mm	650	950		
	Width	mm	650	950		
	Height	mm	55	55		
Sound Pressure Level	at ESP: 0 Pa	dB (A)	45	45	48	50
Condensate Drain Size		mm(in)	DN20 (3/4")			

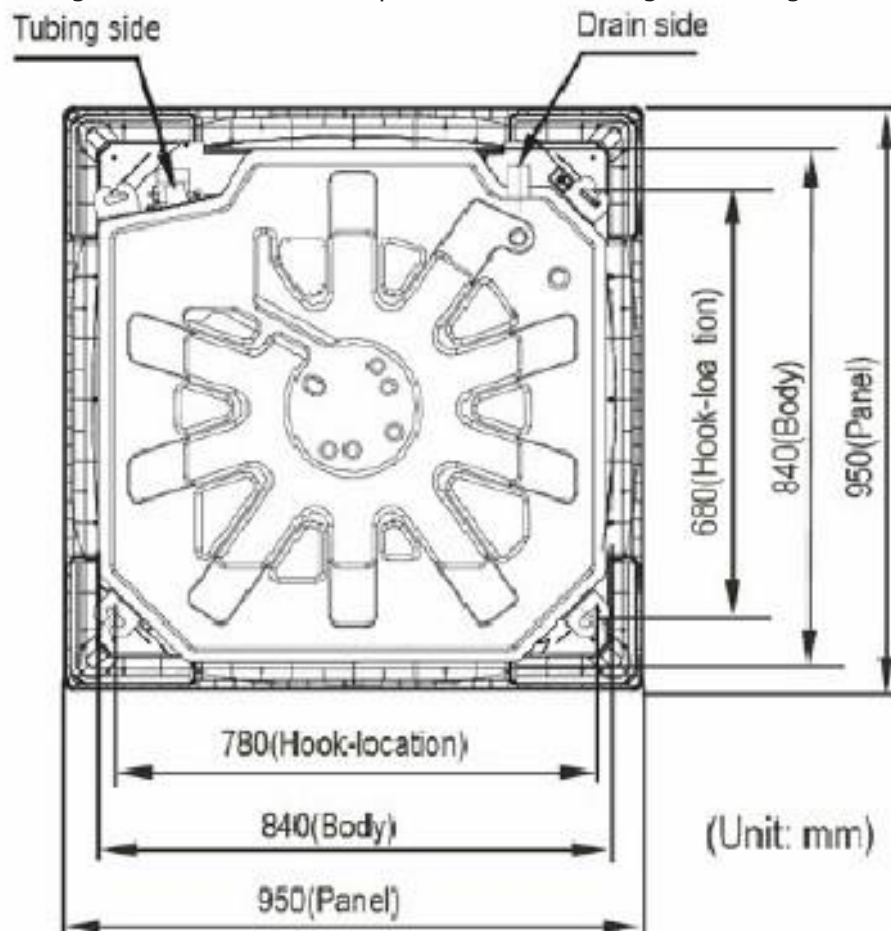
Note:

- Nominal cooling capacity is based on the following condition:
 - Water temperature: 7.0°C (inlet) / 12.0°C (outlet)
 - Air entering condition: 27.0°C DB / 19.0°C WB
- Air volume is tested under entering air condition of 20.0°C DB and dry coil condition.
- All the units' airflow value stated is at high speed.
- Sound pressure level is based on 11.5 dB(A) anechoic room background noise.
- Unit is equipped with water pump

Ceiling Cassette FCU

1. Connection the pipe

- Cut the opening in the false ceiling to allow the fan coil to be inserted.
- Position the tie rods and fix them to the load bearing structures.
- Adjust the height of the unit and keeps it horizontal using a levelling.



- Adjust the position to ensure the gaps between the body and the four sides of ceiling are even. The body's lower part should sink into the ceiling for 10~12 mm. (Refer to Fig.1)
- In general, L is half of the screw length of the installation hook. (Refer to Fig.1)
- Locate the air conditioner firmly by wrenching the nuts after having adjusted the body's position well. (Refer to Figure 2)

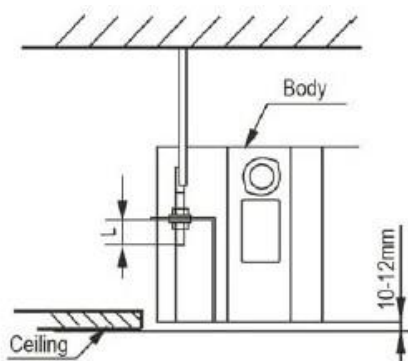


Fig.1

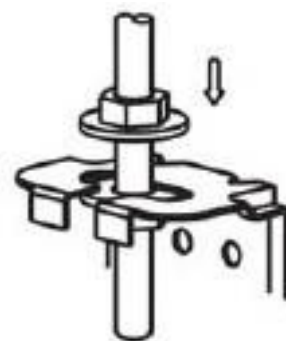
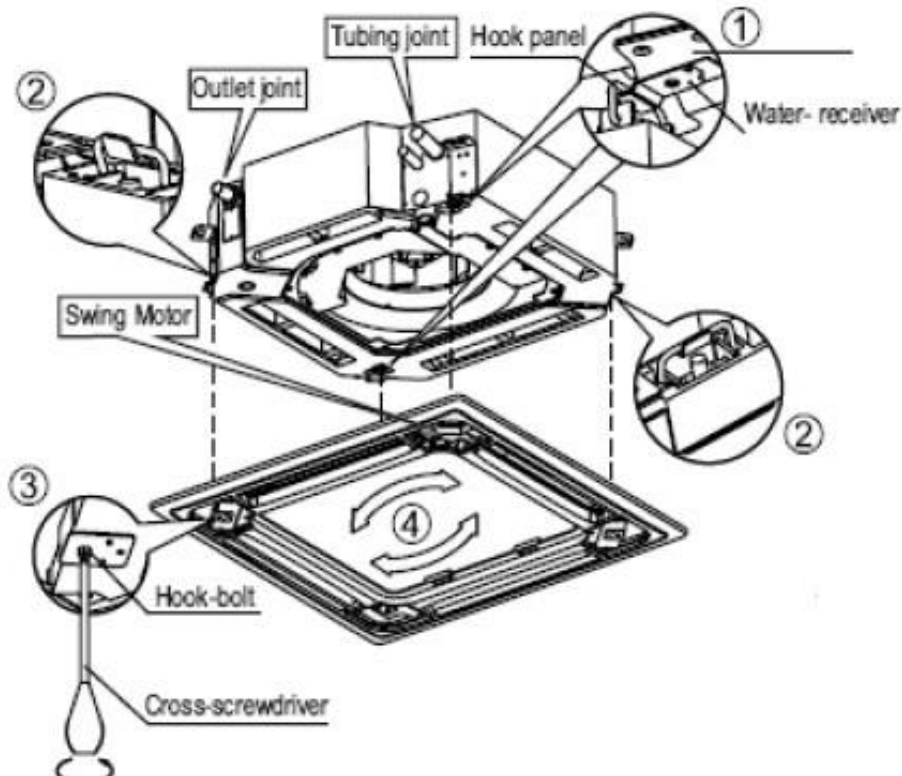
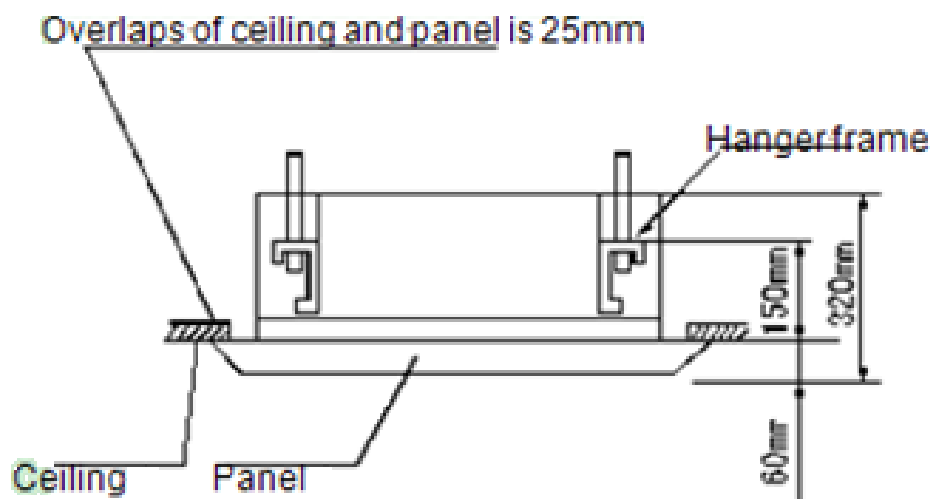


Fig.2

- g) Using 4 bolts supplied by the factory to mount the front panel. Make sure there is no gap between the surface and the panel. It may cause the condensate water or air leakage.

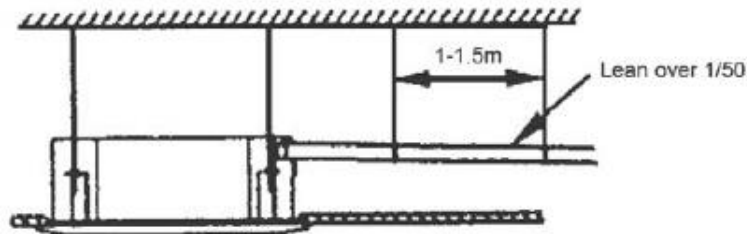


- h) Keep the panel & ceiling at the same level and make sure meet the clearance.



2. Drain Pipe Installation

a) The drain must be installed at a degree of over 1/50.



b) One support-point should be set every 1.5m to prevent the drainpipe from yielding. (Refer to Fig.3) or you can tie the drainpipe with connecting pipe to fix it. (Refer to Fig.4)

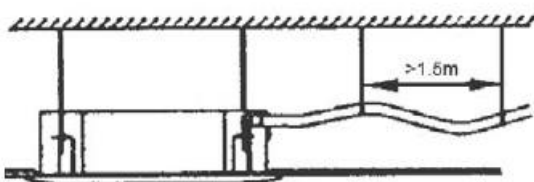


Fig.3

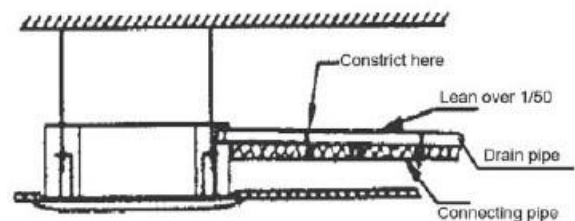
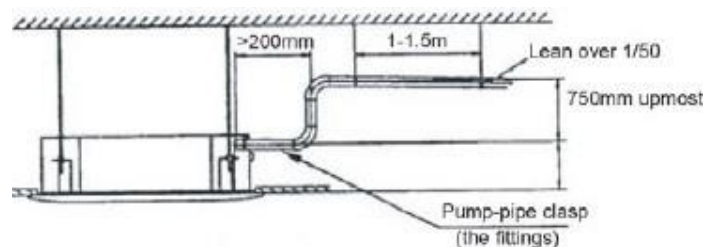


Fig.4

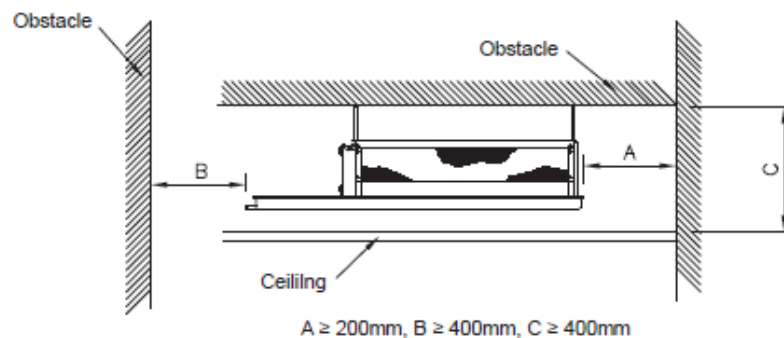
c) If the outlet of the drainpipe is higher than the body's pump joint, the pipe should be arranged as vertically as possible. The lift distance must be not more than 750mm to prevent water overflow when the unit is stop working.



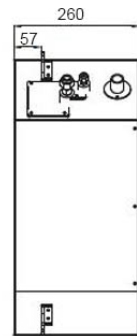
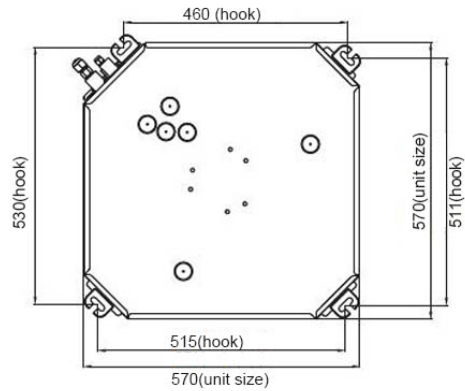
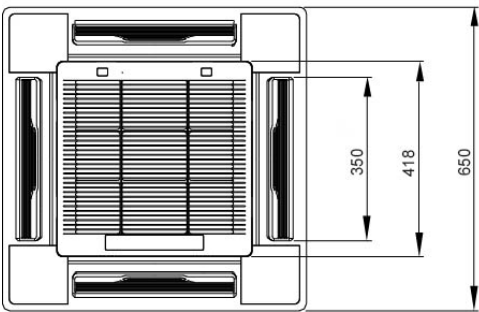
3. Installation Clearance

To ease the maintenance and service works, the unit must be installed in a location where sufficient space is reserved. Please refer to the following diagram for minimum installation clearance:

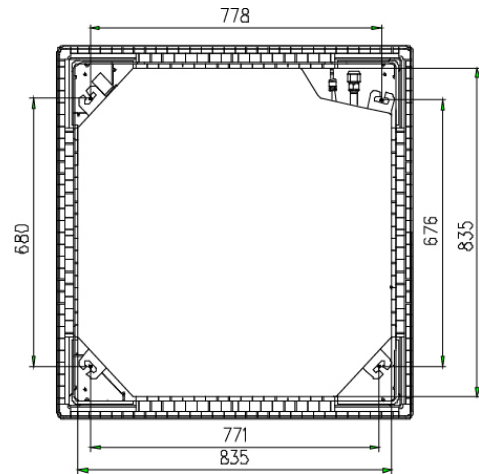
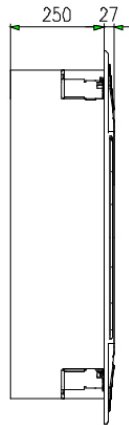
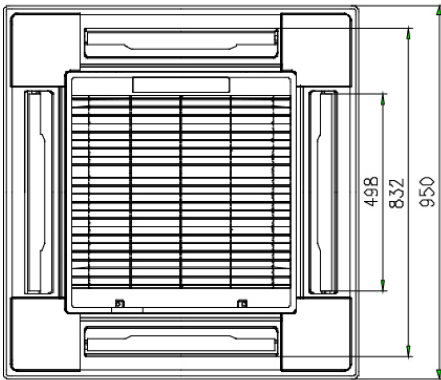
A typical example of installation:



Model: FKM 500



Model: FKM 600 - 1000



Model: FKM 1400

