



**Mammoth**  
The Leader In Custom HVAC & Energy Saving  
美国美意

Specialized air conditioning Having Custom-made

## Fan Coil Units



# Mammoth



Since 1935, Mammoth has been producing and installing air conditioning units with the most innovative technologies. Our solutions are found in some of the world's most important buildings for its unparalleled flexibility and efficiency. When performance and energy efficiency are important factors to a project, our products are often chosen as the final solution.



### Established in Minneapolis, USA - 1935



Since 1988, Mammoth has been providing energy saving products to projects in China. In 2002, Mammoth invested US\$10 million to establish its manufacturing facility in Anji, China's #1 Ecological County, and its national sales headquarter in Shanghai to provide custom engineered air conditioning systems for projects in China and abroad.

### Energy Saving & Innovation



Mammoth produces air conditioning equipment that leverages energy saving and innovative technologies. Our products include, but not limited to, geothermal & water source heat pumps, air & water cooled commercial air conditioning units, fan coils, AHU, VAV box, screw chillers, and energy recovery units.

### Customization & Energy Saving is Our Standard



Mammoth has been recognized as a leader in providing custom designed Total Energy Solution HVAC Systems. Our solutions can fit any design applications from WSHP systems to geothermal systems, from hybrid systems to various energy saving systems. Based on the needs of our customers, our recommendations help our customers assess the economic benefits of Mammoth solutions over alternative systems.

### Outstanding Achievement



Mammoth has also brought its innovative design concepts to the industry. We have printed numerous technical design manuals and books to facilitate engineers in the design of Renewable Energy HVAC Systems. Together with industry associations and the commercial section of the US Embassy and Consulate General Offices, we have frequently conducted technical seminars in major cities in China and abroad. We have supplied our solutions to projects that amount to almost 10 million sq. m., and have been continuously recognized as the leader in Renewable Energy products in China.



The Fan Coil is designed to meet and exceed the demanding requirements for efficiency and quiet operation.

#### Water Coil

The water coil has a large heat transfer surface utilizing the latest technology in fin profile. This is combined with security in tube thickness of traditional design. The water coil is also equipped with an air vent valve and water purge screw.

#### Blower And Motor

Incorporating only specially designed and tested high power-factor permanent split capacitor type blower motors, the enlarged forward curved centrifugal fan provides the optimum in lower r.p.m. airflow-efficiency and QUIET operation.

#### Quality Drain Pan

The extended, positive slope drain pan is removable and is coated with an epoxy finish for easy cleaning to help prevent microbial growth and to fight corrosion. The drain pan is insulated with a form fitted closed cell insulation to prevent condensation build up on the outside of the drain pan.

#### Field Flexible Piping Connections

Units are easily converted to opposite-hand connection without requiring additional parts or a conversion kit. Units may be ordered with left hand or right hand piping connections.

#### Threaded Or Sweat Connections

Units ship standard with threaded connection. A threaded adapter is shipped loose with the unit for easy conversion to a sweat connection.

#### Microprocessor Thermostat (Optional)

See Control Section for complete details. Main features:

- Large LCD, Luxurious appearance
- Microprocessor based
- Reliable separate power unit
- Dual display of room temperature and set temperature
- Time display
- Heating / cooling / ventilating modes adjustable
- Adjustable High/medium/low fan speed and dynamic fan speed display
- Thickness is only 13mm
- Backligh

### Model Nomenclature

		MFC	34
		1	2
1	MFC Mammoth Fan Coil Unit		
2	UNIT Air Flow With High Speed		
	34		340 m3/h
	51		510 m3/h
	68		680 m3/h
	85		850 m3/h
	102		1020 m3/h
	136		1360 m3/h
	170		1700 m3/h
	204		2040 m3/h
	238		2380 m3/h



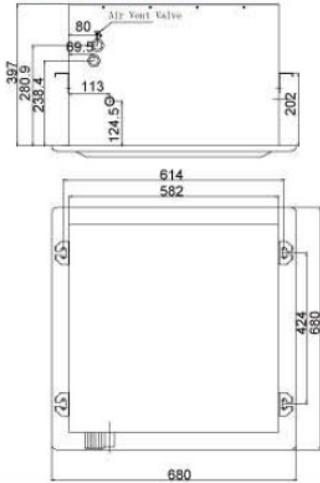
## ■ Cassette Type Fan Coil Unit Technical Specifications (HC-KS Series)

Model		MFC34	MFC51	MFC68	MFC85	MFC102	MFC138	MFC170	MFC204	MFC238	
Air Flow (m <sup>3</sup> /h)	High Speed	340	510	680	850	1020	1360	1700	2040	2380	
	Medium Speed	280	390	520	640	790	1030	1290	1500	1800	
	Low Speed	180	260	360	430	520	690	860	1032	1200	
Cooling capacity	kW	2	2.7	3.7	5	5.6	7.1	9.1	11	12.6	
Heating Capacity	kW	2.8	4.2	5.6	7	8.4	11.2	13.9	16.7	19.5	
Water Flow	L/h	345	520	640	860	970	1260	1710	1920	2210	
Water Pressure Drop	kPa	7	9	11	16	18	19	17	19	22	
Water Capacity	L	1.1	1.1	1.25	1.6	1.8	1.8	2.37	2.37	2.88	
Noise	dB(A)	37	39	41	43	45	46	47	50	52	
Power Input	W	37	52	62	76	96	132	152	189	220	
Running Current	A	0.16	0.23	0.28	0.34	0.43	0.59	0.67	0.84	0.98	
Power	V/Ph/Hz	220V/1P/50HZ									
Control mode	Three speed switch(ordinary)/ remote (intelligent)										
Pipe Connection Size	Inlet	ZG3/4"									
	Outlet	ZG3/4"									
	Condensate	26mm									
Panel Dimension (L*W*H)	mm	680*680*30				830*830*30			980*980*30		
Weight	Intelligent	kg	21.5			29			39		
	Ordinary	kg	23			29			37		
Remark	<p>Rated air flow :is based on 0 Pa ESP.</p> <p>Cooling capacity: Entering air temp.27℃ (DB) , 19.5℃ (WB) ; Entering water temp.7℃ , leaving water temp.12℃</p> <p>Heating capacity: Entering air temp.21℃ (DB) ; Entering water temp.60℃ , the same amount of water flow and air flow with cooling.</p> <p>Noise value: According to ARI260, sound pressure level is tested in anechoic room.</p> <p>All the correction factors are based on high speed.</p>										

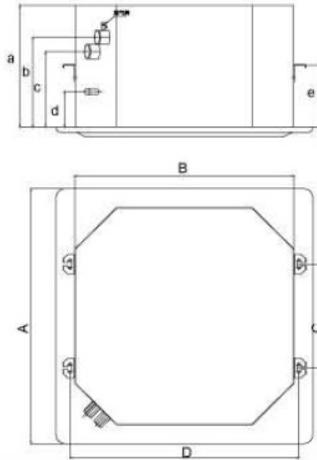


## ■ Cassette Type Fan Coil Unit Dimensional Data(HC-KS Series)

MFC34/51/68



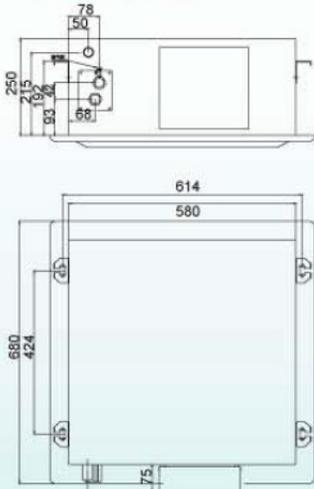
MFC85~238



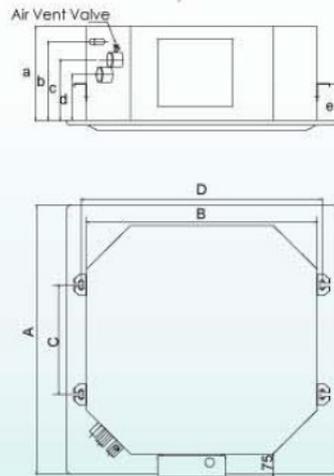
Model	A	B	C	D	a	b	c	d	e
MFC85/102/136	830	707	338	739	397	293	247	115.5	202
MFC170/204/238	980	832	416	864	390	291	246	117.5	202

## ■ Cassette Type Fan Coil Unit Dimensional Data (HC-KS Series)

MFC34/51/68

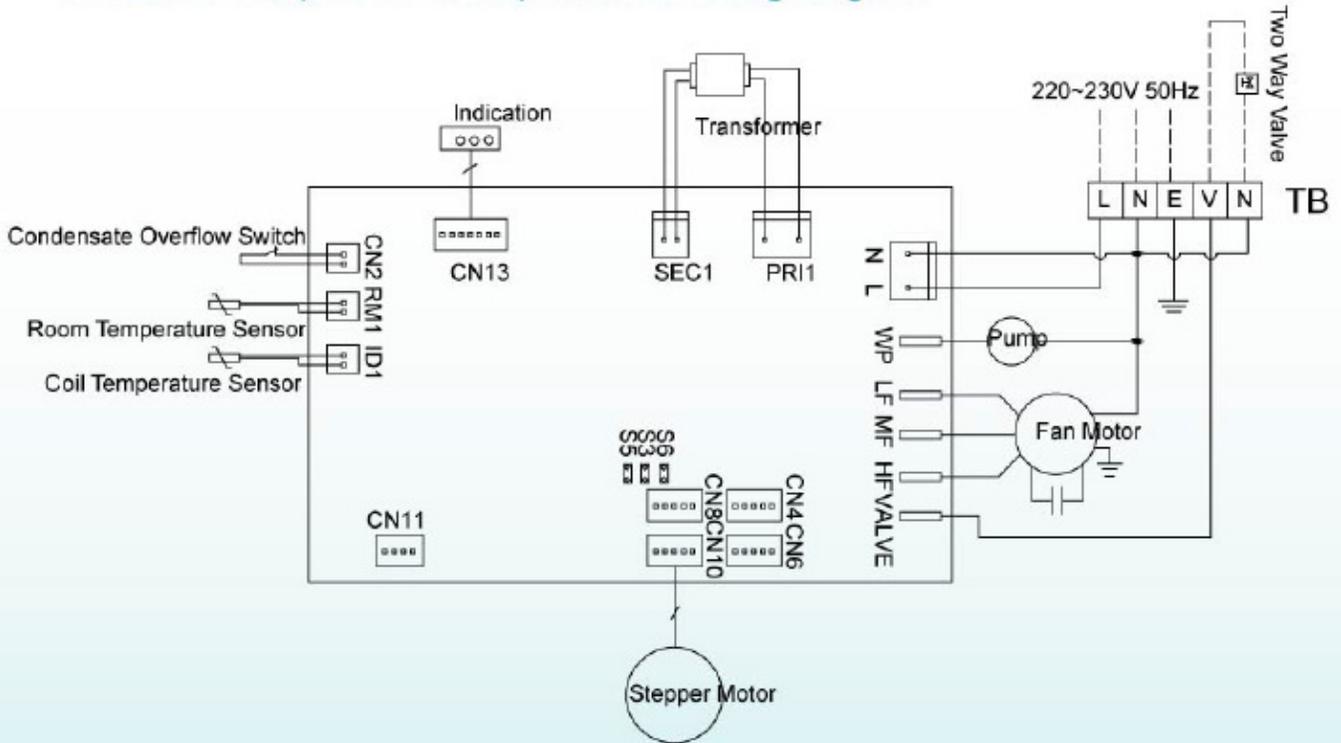


MFC85~238



Model	A	B	C	D	a	b	c	d	e
MFC85/102/136	830	705	338	737	290	242	187	141	112
MFC170/204/238	980	832	416	864	290	242	187	141	112

■ MFC34~238(HC-KS Series) Electrical Wiring Diagram



REMOTE CONTROL HANDSET





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