GEFF Green Economy Financing Facility

European Bank for Reconstruction and Development

APL Apollo Power

FAN COIL UNIT

www.apollopower.ba

INSTRUCTION of APOLLO

Established in 2007,Taizhou APOLLO Refrigeration Equipment Co., Ltd is a manufacturer which has comprehensive competitiveness in the technology、producing and services of commercial air conditioner.

APOLLO is located in Taizhou City, Zhejiang,China, with about 13,000 square meters plant. We have 3 sets of automatic air conditioning assembly lines, matched high-performance enthalpy difference test lab, water-cooled performance test station, air-conditioning inspection and other testing equipments, and also 70 sets of accessory machining equipments.

APOLLO focus on the producing of fan coil unit,Our products include cassette fan coil(1-way,4-way,8-way style), Ultra thin vertical fan coil,Universal fan coil,high wall mounted FCU,etc.we produce almost all kind of fan coil which is popular in the field.

Focus on high quality product,we are doing OEM for more than 100 famous central air conditioner enterprises in China and over the world. At the same time, our products with APOLLO marks was sold successfully to more than 30 countries and regions,including the EU, South America,, Middle East, Southeast Asia etc .

May 2007, the company started to produce cassette-type fan coil and cassette air conditioner;
November 2008, the company got the production permit of FCU;
December 2009, the company successfully passed the ISO9001: 2008 quality certification;
April,2012, APOLLO start to produce the cassette FCU with DC motor;
September,2016, APOLLO got the CE certification of series FCU;
March,2019,All series of FCU got a DC motor solution;
January,2021, APOLLO got the title of national high tech enterprise of China;
September ,2021, APOLLO move the factory from Luqiao district to Jiaojiang district,to build up a bigger R&D and manufacturing platform;
October,2023 , APOLLO passed the ISO14001 certification and AHRI certification of FCU;
November,2024, APOLLO got the CRAA certification for FCU;

Nowadays, we are doing our best to build a outstanding brand in China.We will keep focusing on the development strategy of “differences in development” , continue to adhering to the management concept of "keep improvement, innovation forever", and constantly reinforce the product quality, creating a new prospect.



Products list of Apollo

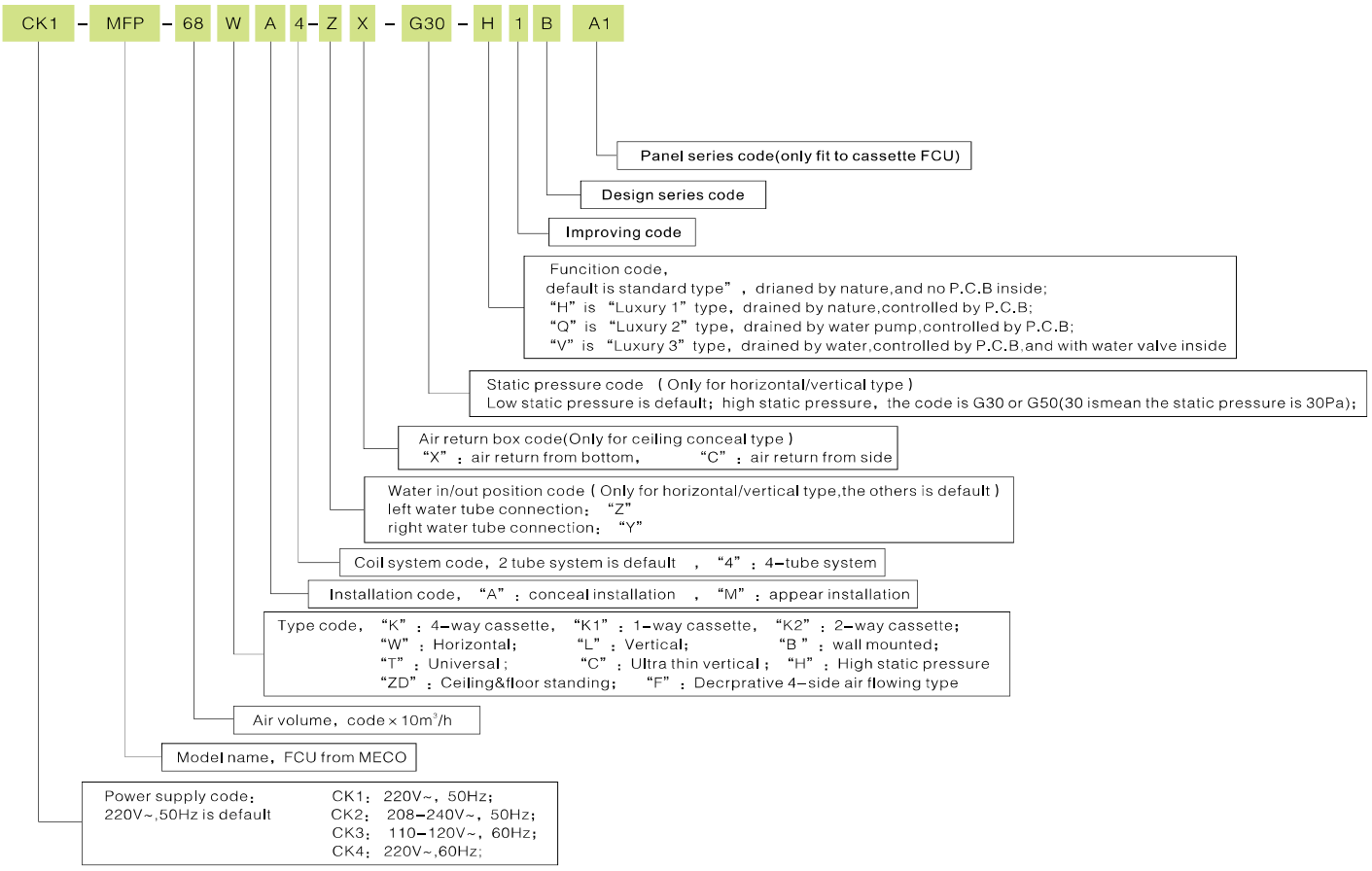
Fan coil unit

Type \ Model	m^3/h	340	510	680	800	850	1020	1360	1530	1700	2040	2380	2720	3060	3400	4080	DC motor (0-10V)	DC motor (3 speed)
	cfm	200	300	400	470	500	600	800	900	1000	1200	1400	1600	1800	2000	2400	optional	
Cassette type	1-way with drained pump	√	√	√		√												●
	4-way without drained pump (Mstyle)	√	√	√	√	√	√	√	√	√	√	√	√				●	●
	4-way with drained pump(M style)	√	√	√	√	√	√	√	√	√	√	√	√				●	●
	surround air flowing style(G style)					√	√	√		√	√	√						●
Decrprative 4-side airflowingtype	4-side air flowing with drained pump(F style)			√		√							√	√				●
	4-side air flowing drained by nature(F style)			√		√							√	√				●
High wall mounted type	standard type	√	√	√		√	√	√										
Ceiling & floor type	Standard type		√	√		√	√	√		√	√	√						
Ceiling conceal ducted type	12/30/50/65Pa	√	√	√		√	√	√		√	√	√					●	●
Ceiling conceal ducted type slim style-E style	12Pa		√	√	√	√	√	√	√								●	●
Ceiling conceal ducted type slim style-K style	12/30Pa	√	√	√		√	√	√		√								●
Medium static pressure ducted type (MAW series)	75Pa						√	√		√	√	√	√				●	
high static pressure ducted type	120Pa									√	√	√					●	
high static pressure ducted type (HAW series)	120Pa							√		√	√	√	√	√	√	√	●	
Universal type(with casing)	12/30/50Pa	√	√	√		√	√	√		√	√	√					●	●
Universal conceal type (without casing)	12/30/50Pa	√	√	√		√	√	√		√	√	√					●	●
Vertical ducted type	60Pa						√	√		√	√						●	

Type \ Model	m^3/h	300	400	500	600	DC motor (0-10V)	DC motor (3 speed)
Ultra thin vertical fan coil unit(with casing)		√	√	√	√	●	
Ultra thin vertical conceal fan coil unit(without casing)		√	√	√	√	●	●

FCU types

Model naming of FCU



Testing condition

2–tube system

1、cooling testing condition:

Entering air temperature: Dry bulb 27℃, Wet bulb 19.5℃

Entering/out water temperature: 7 C/ 12℃

Heating

Entering air temperature: 21℃

Entering water temperature: 60℃, Same water flow rate as for the cooling.

4–tube system

Cooling

Entering air temperature: Dry bulb 27℃, Wet bulb 19.5℃

Entering/out water temperature: 7℃/ 12℃

Heating

Entering air temperature: 21℃

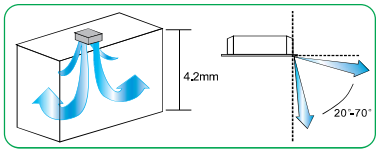
Entering/out water temperature: 60℃/ 50℃

'M' style

4–way cassette type fan coil unit (Drained pump inside)

Characteristic

1、4–way air flowing,which can uniform temperature distribution in the room



2、Specially design to avoid the air–short flowing;

3、Thin design unit which can be installed in a limit ceiling (the Min. thickness is 240mm)

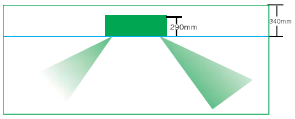
4、Easy to be installed，Low installation cost

Comparing to the ceiling conceal ducted FCU,we do not need to install the air inlet and outlet,and also the ducted connection and insulation.

Installation of ceiling conceal ducted FCU

Controller of 4–way cassette FCU

5、Remote controller is standard and wire controller is optional



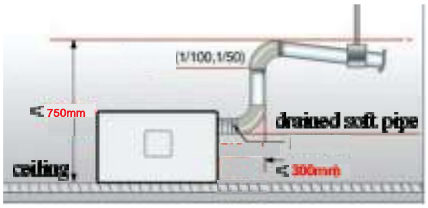
6、Auto swing

7、Quiet running

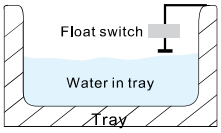
Using advanced 3D software to design the centrifugal fan with streamline and big diameter turbine.

The efficiency of airflow rate, heavy wind volume and low noise is excellent. Because the ventilator wheel is processed to sine strip seam, which enhances its flexibility, and drops the vibration of ventilator during revolving in large scale, simultaneously reduced the motor noise caused by ventilator swinging.

8、High lift water drained pump (750mm),easy to plan the condensate drained pipe



9、Float switch inside to prevent from leaking

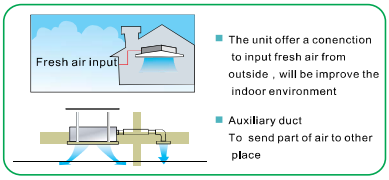


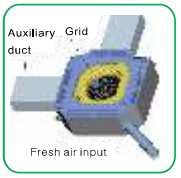
After the water raising to a certainly position, the float switch will act and alarm,then the unit will cut off the water valve or stop the fan motor.

10、Fresh air can be inputed from outside

Fresh air inlet can import some fresh wind from outside, and ensure the quality of indoor air.

Thus, the consumer can share the fresh an clean air to lessen illness caused by air conditione





11、Auxiliary duct is available to send part of air to other place,in orderto improve indoor temperatuerl air quality

12、“C” type heat exchanger,blue fin

"C" type exchanger is helpful to improve the well–distributed of terminal air duct and refrigerate system, make the efficiency of multi flow more even and it reduced the probable of system leak.

Blue fin extremely reduced the coagulate water detained in the aluminum flake, so it reduce the wind resistance, improved the efficiency of heat exchanger.

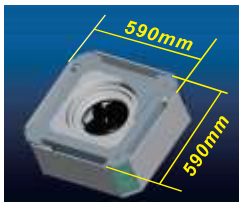
13、The water remain in the tray is easy to drained by manual.

There are a rubber plug on the water collecting tray,we can drained out the dirty water by manual.
Because the water remained inside the tray will keep for a long time, then there will be very dirty and there might be lots bacterial inside too,draining out the dirty water is benifit to the health and also reduce the possible of pump blocking.

14、Square panels ,which can choose the direction of inlet/outlet water connection freely

15、Fan and fan motor is easy to maintain

After take out the air grid of the panel,we can easily take out the eletric box,then the fan



16、The dimension of M1 unit is only 590×590mm, which can be installed in a standard ceiling opening.

17、Easily interfaced with most widely used BMS and proprietary supervisory system based on Mod– Bus protocol.

18、Water valve can be installed outside the unit(optional).

Water valve is used to controll the on/off water flowing to the unit,we installed the valve outside the unit ,so the user do not need to installed it by themself.

19、4–tube system is optional

There are both cooling and heating water circle coil inside the unit,so the unit can deal with cooling or heating at the same time.
4pipe systme is always used in the place where need to deal with heating and cooling by refrigeration system at the same time.For example, a room need heating and another need cooling. 5–star hotel always use this kinds FCU.

Dc motor is optional

Excellent performance——
Optional brushless DC motor, high efficiency and energy saving

Wolong/Panasonic brushless plastic package DC motor is optional.

High working efficiency, but energy efficiency is over 50% lower than the average motor.

Long working life:

With plastic package, the humidity and dust will not easily access to the inner motor.

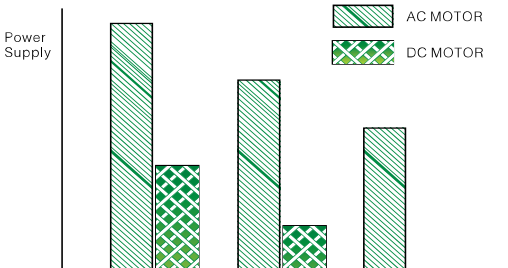
High electrical efficiency, low temperature rise and slow aging of internal components.

More controller is optional:

0–10V stepless thermostat is default optional,
3 speed thermostat can be customized;

0–10V thermostat

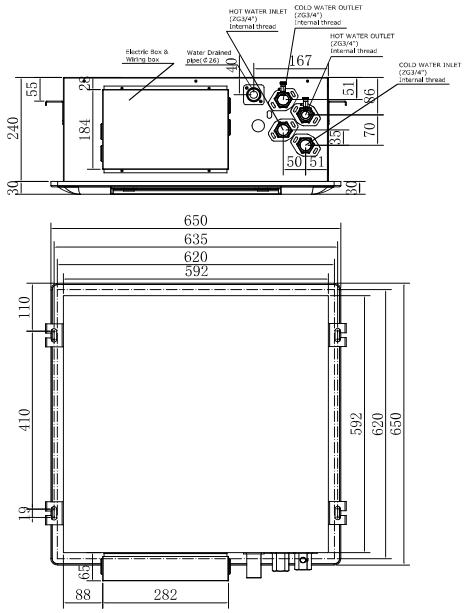
3 speed thermostat



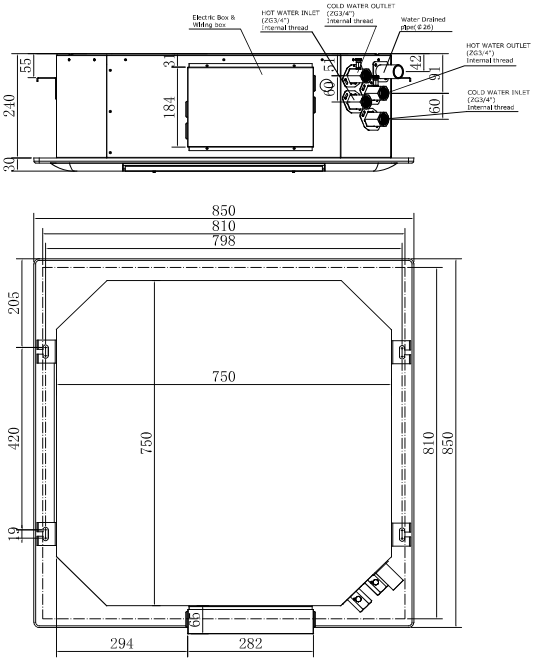
Remarkable energy conservation
The input power of high speed is about 50% of the constant speed motor.
The input power of medium speed is about 30% of the constant speed motor.
The input power of low speed is about 20% of the constant speed motor.

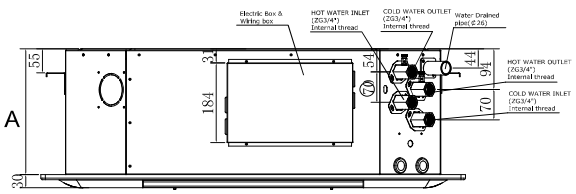
Installing dimension

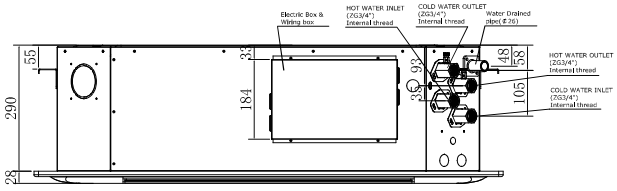
Model
MFP-34KM(4)-Q2MM1
MFP-51KM(4)-Q2MM1
MFP-68KM(4)-Q2MM1

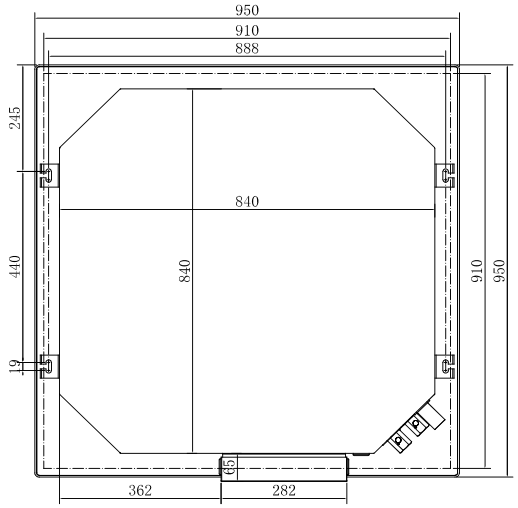


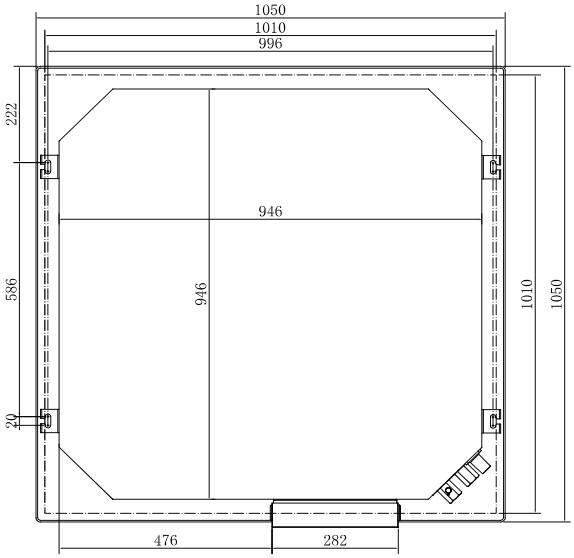
Model
MFP-85KM(4)-Q2MM2
MFP-102KM(4)-Q2MM2











Model	A
MFP-136KM(4)-Q2MM3	240
MFP-170KM(4)-Q2MM3	290
MFP-204KM(4)-Q2MM3	290
MFP-238KM(4)-Q2MM3	290

Model
MFP-272KM(4)-Q2MM4

4-way cassette FCU performance (2 tube system)

Model (2-tube system)				MFP-34KM-(Q)MM1	MFP-51KM-(Q)MM1	MFP-68KM-(Q)MM1	MFP-85KM-(Q)MM2	MFP-102KM-(Q)MM2	MFP-136KM-(Q)MM3	MFP-170KM-(Q)MM3	MFP-204KM-(Q)MM3	MFP-238KM-(Q)MM3	MFP-272KM-(Q)MM4
Model of unit				FP-34KM-(Q)M1	FP-51KM-(Q)M1	FP-68KM-(Q)M1	FP-85KM-(Q)M2	FP-102KM-(Q)M2	FP-136KM-(Q)M3	FP-170KM-(Q)M3	FP-204KM-(Q)M3	FP-238KM-(Q)M3	FP-272KM-(Q)M4
Panel Type				MB-SD11M1			MB-SD11M2		MB-SD11M3				MB-SD11M4
Power supply				220V,50Hz,1Ph									
Air volume	H		m^3/h	380	550	680	880	1050	1380	1750	2050	2200	2720
	M			300	440	540	700	840	1100	1400	1640	1760	2040
	L			230	330	410	530	630	830	1050	1230	1320	1360
Static pressure			Pa	0	0	0	0	0	0	0	0	0	0
Cooling capacity	TH	H	W	2000	3000	3800	4900	5800	7500	9800	11000	12000	15000
			BTU/h	6824	10236	12966	16719	19790	25590	33438	37532	40944	51180
	SH		W	1400	2200	2850	3500	4250	5500	7150	8250	9100	11175
			BTU/h	4777	7506	9724	11942	14501	18766	24396	28149	31049	38129
	TH	M	W	1700	2550	3250	4150	4950	6400	8350	9350	10200	12450
	SH		W	1150	1800	2350	2850	3500	4550	5950	6850	7650	9560
	TH	L	W	1400	2050	2600	3400	4000	5200	6750	7600	8300	10300
	SH		W	950	1400	1850	2300	2800	3600	4700	5450	6000	8400
Heating capacity	H		W	3100	4700	5900	7600	9000	11600	15200	17100	18600	2400
	M		W	2650	4000	5000	6450	7650	9850	12900	14550	15800	19900
	L		W	2100	3150	3950	5100	6050	7750	10200	11450	12450	15200
Noise	High speed		dB(A)	38	40	42	42	44	46	47	50	51	53
Power input			W	40	50	58	70	95	130	160	190	210	230
Waterflow volume			m^3/h	0.34	0.51	0.65	0.83	0.99	1.28	1.67	1.87	2.04	2.55
Pressure dropping			kPa	11	13	22	18	25	23	28	33	42	45
Water tube connection(inlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	Hydrophilic aluminum fin to wear copper tube									
Max.working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Condensing water pipe			mm	¢26	¢26	¢26	¢26	¢26	¢26	¢26	¢26	¢26	¢26
Net dimension	Drained by pump		L×W×H mm	590×590×242			750×750×242		840×840×242	840×840×292			946×946×292
	Panel			650×650×40			850×850×40		950×950×40				1050×1050×40
Net weight	Drained by pump		kg	17	18	18	22	23	29	26	27	27	32
	Panel			2.2			4.2		5				6

4-way cassette FCU performance (4 tube system)

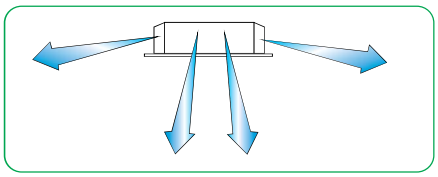
Model (4-tube system)				MFP-34KM4-(Q)MM1	MFP-51KM4-(Q)MM1	MFP-68KM4-(Q)MM1	MFP-85KM4-(Q)MM2	MFP-102KM4-(Q)MM2	MFP-136KM4-(Q)MM3	MFP-170KM4-(Q)MM3	MFP-204KM4-(Q)MM3	MFP-238KM-(Q)MM3	MFP-272KM-(Q)MM4
Model of unit				FP-34KM4-(Q)M1	FP-51KM4-(Q)M1	FP-68KM4-(Q)M1	FP-85KM4-(Q)M2	FP-102KM4-(Q)M2	FP-136KM4-(Q)M3	FP-170KM4-(Q)M3	FP-204KM4-(Q)M3	FP-238KM-(Q)M3	FP-272KM-(Q)M4
Panel Type				MB-SD11M1			MB-SD11M2		MB-SD11M3				MB-SD11M4
Power supply				220V,50Hz,1Ph									
Air volume	H		m^3/h	360	520	650	840	1000	1320	1660	1950	2090	2720
	M			290	420	510	670	800	1050	1330	1560	1670	2040
	L			220	310	390	500	600	790	1000	1170	1250	1360
Static pressure			Pa	0	0	0	0	0	0	0	0	0	0
Cooling capacity	TH	H	W	1950	2950	3700	4800	5700	7350	9600	10800	11750	13200
			BTU/h	6700	10050	12700	16400	19400	25100	32750	36800	40150	45040
	SH		W	1350	2150	2800	3450	4150	5400	7000	8100	8900	10000
			BTU/h	4700	7350	9550	11700	14200	18400	23900	27600	30450	34120
	TH	M	W	1650	2500	3200	4050	4850	6250	8200	9150	10000	11000
	SH		W	1150	1750	2300	2800	3450	4450	5850	6700	7500	37532
	TH	L	W	1350	2000	2550	3350	3900	5100	6600	7450	8150	9100
	SH		W	950	1350	1800	2250	2750	3550	4600	5350	5900	6600
Heating capacity	H		W	1950	3000	3750	4850	5750	7400	9700	10900	11850	13500
	M		W	1700	2550	3200	4100	4850	6250	8200	9250	10050	11200
	L		W	1350	2000	2500	3250	3850	4950	6500	7300	7950	8750
Noise	High speed		dB(A)	39	41	43	43	45	46	48	51	52	53
Power input			W	40	50	58	70	95	130	160	190	210	230
Waterflow volume	High speed	Cool	m^3/h	0.33	0.5	0.64	0.81	0.97	1.25	1.64	1.83	2	2.2
		Heat		0.22	0.33	0.42	0.54	0.64	0.82	1.08	1.21	1.32	1.5
Pressure dropping		Cool	kPa	11	13	22	18	25	23	28	33	42	42
		Heat		7	8	13	11	15	15	19	23	26	30
Water tube connection(inlet)	Cooling and heating coil			ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	Hydrophilic aluminum fin to wear copper tube									
Max.working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Condensing water pipe			mm	¢26	¢26	¢26	¢26	¢26	¢26	¢26	¢26	¢26	¢26
Net dimension	Drained by pump		L×W×H mm	590×590×242			750×750×242		840×840×242	840×840×292			946×946×292
	Panel			650×650×40			850×850×40		950×950×40				1050×1050×40
Net weight	Drained by pump		kg	19	20	20	24.5	25.5	27.5	29.5	29.5	30	33
	Panel			2.2			4.2		5				6

Decorative 4-side air flowing type fan coil unit

Decrorative 4-side air flowing fan coil unit characteristic

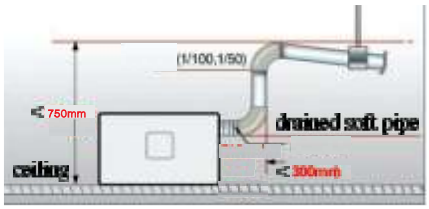
1、Customizable metal grille air inlet design,easy to fit with the decoration

2、4-side air flowing ,which can uniform temperature distribution in the room



3、Condensate water drain pump is optional

High lift water drained pump (750/1200mm),easy to plan the



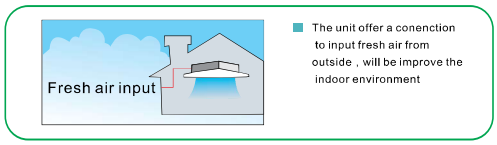
4、All the key parts are easy to maintain from the air inlet grille;

5、Quiet running

Using advanced 3D software to design the centrifugal fan with streamline and big diameter turbine.

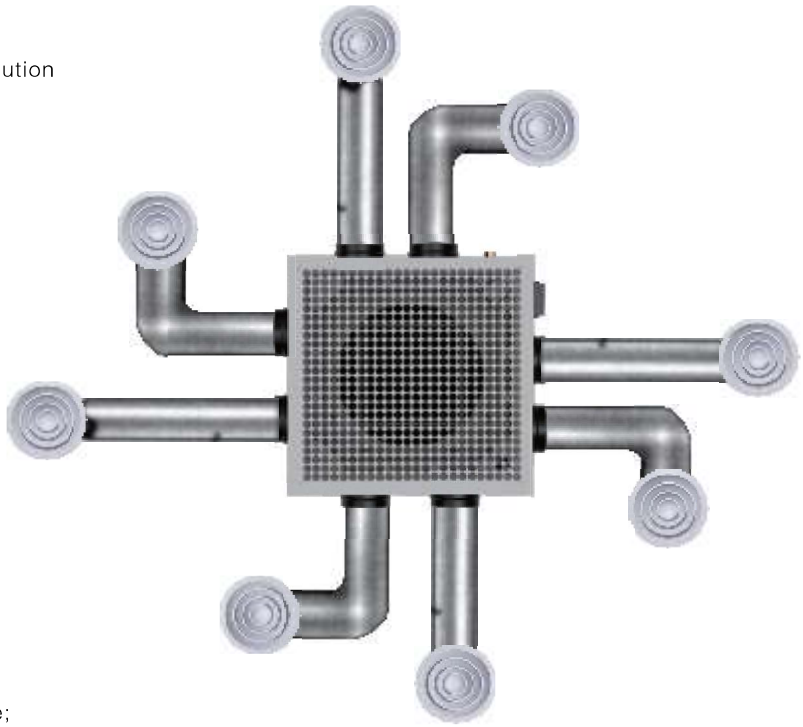
The efficiency of airflow rate, heavy wind volume and low noise is excellent. Because the ventilator wheel is processed to sine strip seam, which enhances its flexibility, and drops the vibration of ventilator during revolving in large scale, simultaneously reduced the motor noise caused by ventilator swinging.

6、**Fresh air can be inputed from outside**



7、Electrostatic dust sanitiser is optional
(Drained by nature style)

8、Can connect to duct and link with diffuser

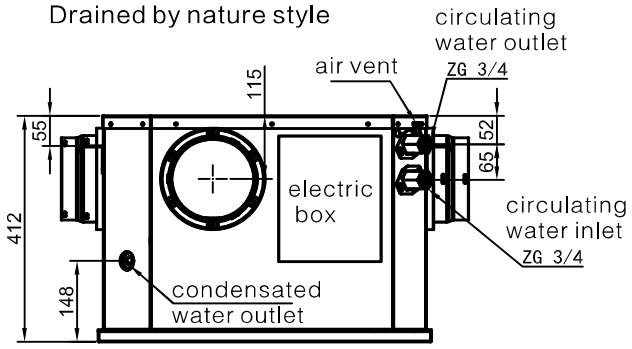


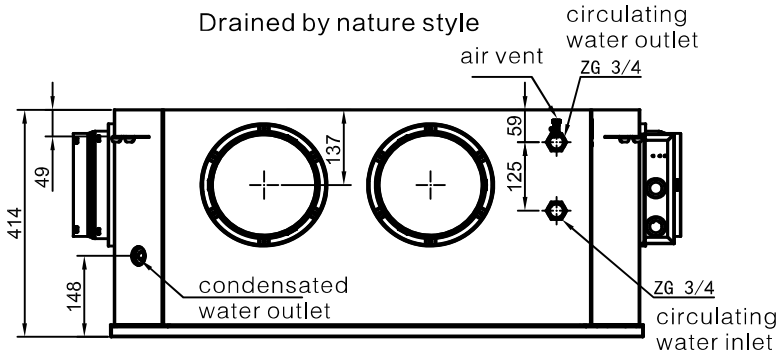
9、The models(272/300) with big air volume is fitable for the projects which have big space

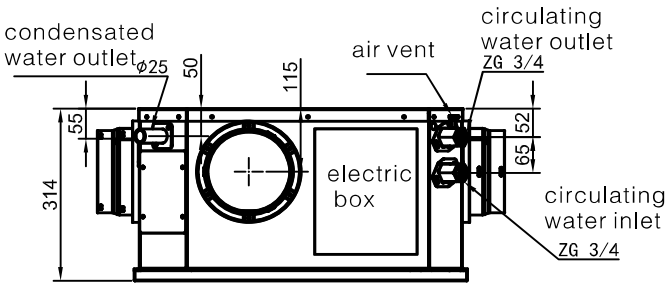
Low installation cost ;

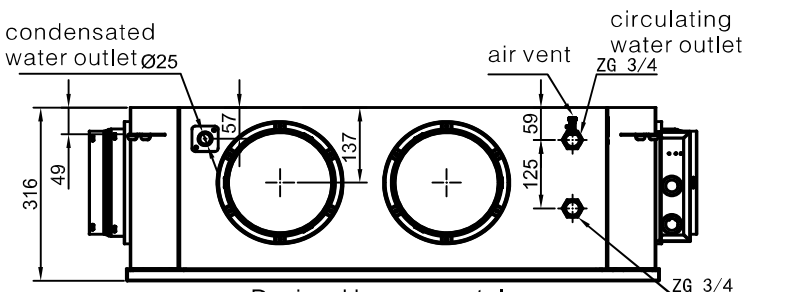
Installing dimension

Drained by nature style

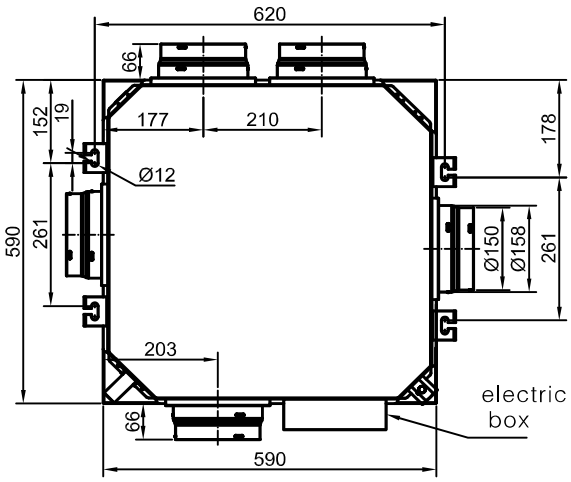






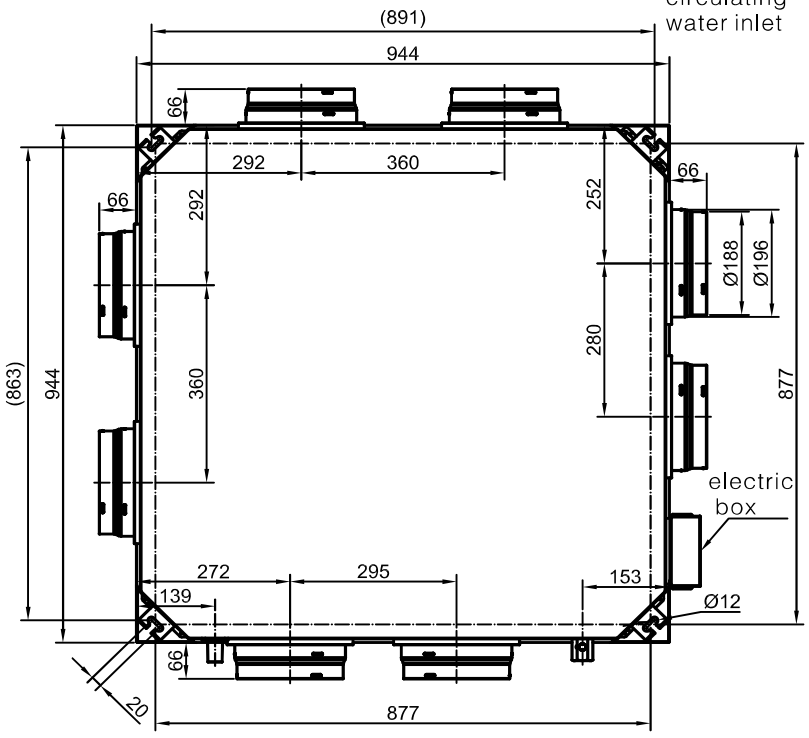


Drained by pump style



model	MFP-68FM-(Q) MFP-85FM-(Q)

Drained by pump style



model	MFP-272FM-(Q) MFP-300FM-(Q)

4-side air flowing fcu performance (2 tube system)

Model (2 -tube system)				MFP-68FM-(Q)	MFP-85FM-(Q)	MFP-272FM-(Q)	MFP-300FM-(Q)
Power supply				220V,50Hz,1Ph			
Air volume	H		m^3/h	680	850	2720	3000
	M			520	660	2040	2300
	L			370	430	1360	1600
Static pressure			Pa	0	0	0	0
Cooling capacity	TH	H	W	3800	4700	15000	17000
			BTU/h	11940	14767	47130	53414
	SH		W	2830	3500	11175	12665
			BTU/h	9660	11950	38129	43212
	TH	M	W	3080	3800	12150	13770
	SH		W	2430	3000	9600	10878
	TH	L	W	2400	2960	9450	10710
	SH		W	1950	2430	7749	8782
Heating capacity	H		W	5700	7050	22500	25500
	M		W	4400	5430	17300	19600
	L		W	3450	4260	13600	15400
Noise	High speed		dB(A)	41	43	53	54
Power input			W	58	65	180	193
Waterflow volume			m^3/h	0.65	0.81	2.58	2.92
Pressure dropping			kPa	22	28	51	58
Water tube connection(inlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	Hydrophilic aluminum fin to wear copper tube			
Max.working pressure			MPa	1.6	1.6	1.6	1.6
Condensing water pipe			mm	¢26			
Net dimension	Drained by pump		L×W×H mm	590*590*314		944*944*316	
	Drained by nature			590*590*412		944*944*414	
Net weight	Drained by pump		kg	20		41	
	Drained by nature			21.5		43	

4-side air flowing fcu performance (4 tube system)

Model (4 -tube system)				MFP-68FM4-(Q)	MFP-85FM4-(Q)	MFP-272FM4-(Q)	MFP-300FM4-(Q)
Power supply				220V,50Hz,1Ph			
Air volume	H		m^3/h	680	850	2720	3000
	M			520	660	2040	2300
	L			370	430	1360	1600
Static pressure			Pa	0	0	0	0
Cooling capacity	TH	H	W	3800	4700	15000	17000
			BTU/h	11940	14767	47130	53414
	SH		W	2830	3500	11175	12665
			BTU/h	9660	11950	38129	43212
	TH	M	W	3080	3800	12150	13770
	SH		W	2430	3000	9600	10878
	TH	L	W	2400	2960	9450	10710
	SH		W	1950	2430	7749	8782
Heating capacity	H		W	3700	4580	14630	16580
	M		W	3010	3720	11900	13480
	L		W	2300	2840	9060	10300
Noise	High speed		dB(A)	41	43	53	54
Power input			W	58	65	180	193
Waterflow volume	High speed	Cool	m^3/h	0.65	0.81	2.58	2.92
		Heat		0.32	0.4	1.26	1.47
Pressure dropping		Cool	kPa	22	28	51	58
		Heat		16	21	32	35
Water tube connection(inlet)	Cooling and heating coil			ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	Hydrophilic aluminum fin to wear copper tube			
Max.working pressure			MPa	1.6	1.6	1.6	1.6
Condensing water pipe			mm	¢26			
Net dimension	Drained by pump		L×W×H mm	590*590*314		944*944*316	
	Drained by nature			590*590*412		944*944*414	
Net weight	Drained by pump		kg	21.5		43	
	Drained by nature			23		45	

APOLLO, THE EXPERT OF FAN COIL UNIT

HIGH WALL MOUNTED TYPE FAN COIL UNIT

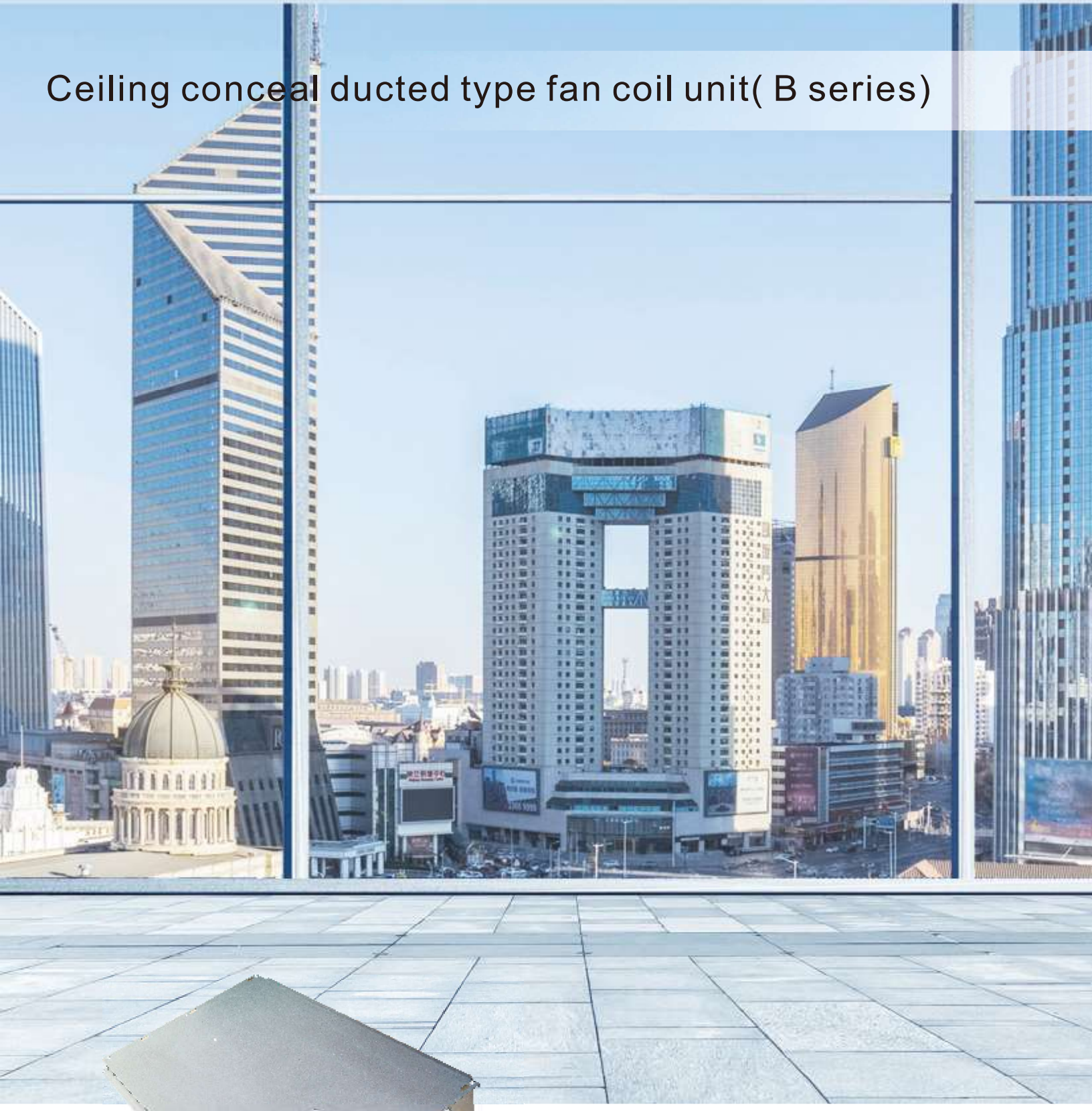
1: Conceal style digital display panel
2: Remote controller is standard and wire controller is optional
3: Power off memory function is standard
4: Modbus function is reserve (485 terminal)
5: EC motor is standard

Performance

High wall mounted FCU standard type

Model (2 –tube system)				DC–MFP–34BM–E	DC–MFP–51BM–E	DC–MFP–68BM–E	DC–MFP–85BM–E	DC–MFP–102BM–E	DC–MFP–136BM–E
Power supply				220V,50Hz,1Ph					
Air volume		H	m^3/h	430	510	680	850	1020	1200
		M		330	395	530	650	765	885
		L		220	270	355	460	520	620
Static pressure			Pa	0	0	0	0	0	0
Cooling capacity	TH	H	W	2900	3400	4000	4800	6500	7300
			BTU/h	9895	11601	13648	16378	22178	24908
	SH		W	2000	2340	2986	3540	4500	5020
			BTU/h	6824	7984	10188	12078	15354	17128
	TH	M	W	2350	2680	3200	3920	5230	5850
	SH		W	1610	1830	2345	2890	3570	4000
	TH	L	W	1640	2000	2500	2830	3800	4400
	SH		W	1100	1360	1720	2105	2520	3000
Heating capacity	H		W	4600	5450	6400	7680	10400	11700
	M		W	3760	4290	5120	6270	8370	9400
	L		W	2620	3200	4000	4530	6080	7000
Noise	High speed		dB(A)	32/26/18	35/29/22	41/35/25	47.5/40/30	45.5/40/31	49/43/34
Power input	High speed		W	13	19	25	37	42	57
Waterflow volume	High speed		m^3/h	0.5	0.58	0.69	0.82	1.11	1.25
Pressure dropping			kPa	24	30	24	30	32	40
Water tube connection(inlet)				ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"
Water tube connection(outlet)				ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"
Coil			Type	Hydrophilic aluminum fin to wear copper tube					
Maximum working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6
Condensing water pipe			mm	¢ 16	¢ 16	¢ 16	¢ 16	¢ 16	¢ 16
Net dimension	L×W×H		mm	850X291X203	850X291X203	972X302X224	972X302X224	1081X327X248	1081X327X248
Net weight			kg	11	11	14.5	14.5	18	18

Ceiling conceal ducted type fan coil unit(B series)



Characteristic

1、Fan

Our fans are made by international professional fan manufacture with stable quality and reliable character with routine dynamic balance precise debug.
Fan runs stably and quietly.

2、Water collection tray

Tensile plate with high-grade, smooth surface spray, corrosion resistance, anti-rust;
One-time stamping molding process, without weld or solder joint;
Adopt the overall thermal insulation,in order to avoid secondary condensate drip tray;
Two-way diversion mouth slope shape design, condensate water speed, reduce the water remain inside thr tray, effectively reduce the rate of bacterial growth; large condensate tray designed to eliminate surface cooler and access to water dripping outside the interface of the phenomenon of condensation

3、Heat exchanger

Hydrophilic aluminum fin to wear high quality copper tube,high heat exchanging efficiency,large heat exchanging area,low pressure dropping,large cooling and heating capacity.
High quality material copper can support big water pressure.

4、Air return box is optional, which can ease installation,reducing construction cost

5、Integrated models

Air volume from 340 to 2380m3/h, include 9 models and also different static pressure type;

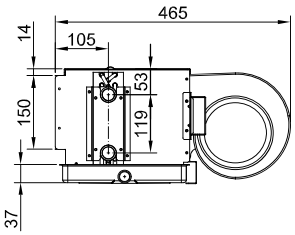
6、High efficency

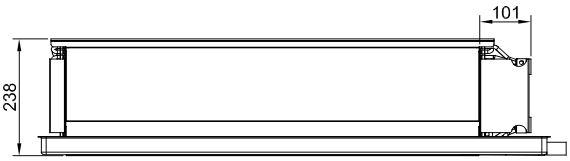
Adopt good quality heat exchanger and fan, which is benifit to the heat exchanging capacity and efficiency

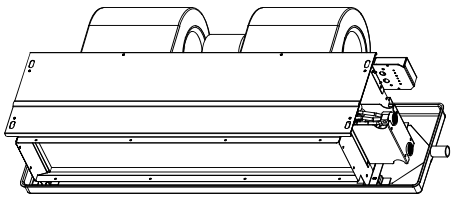
7、Symmetrical design, easy installation

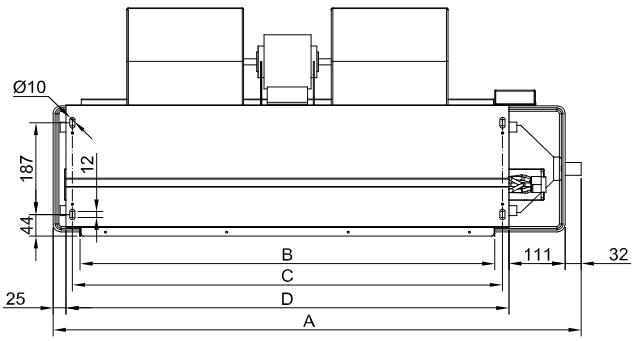
Symmetrical design, it is easy to change the unit from left(right)water tube connection to right(left) connection

Installing dimension(without air plenum)



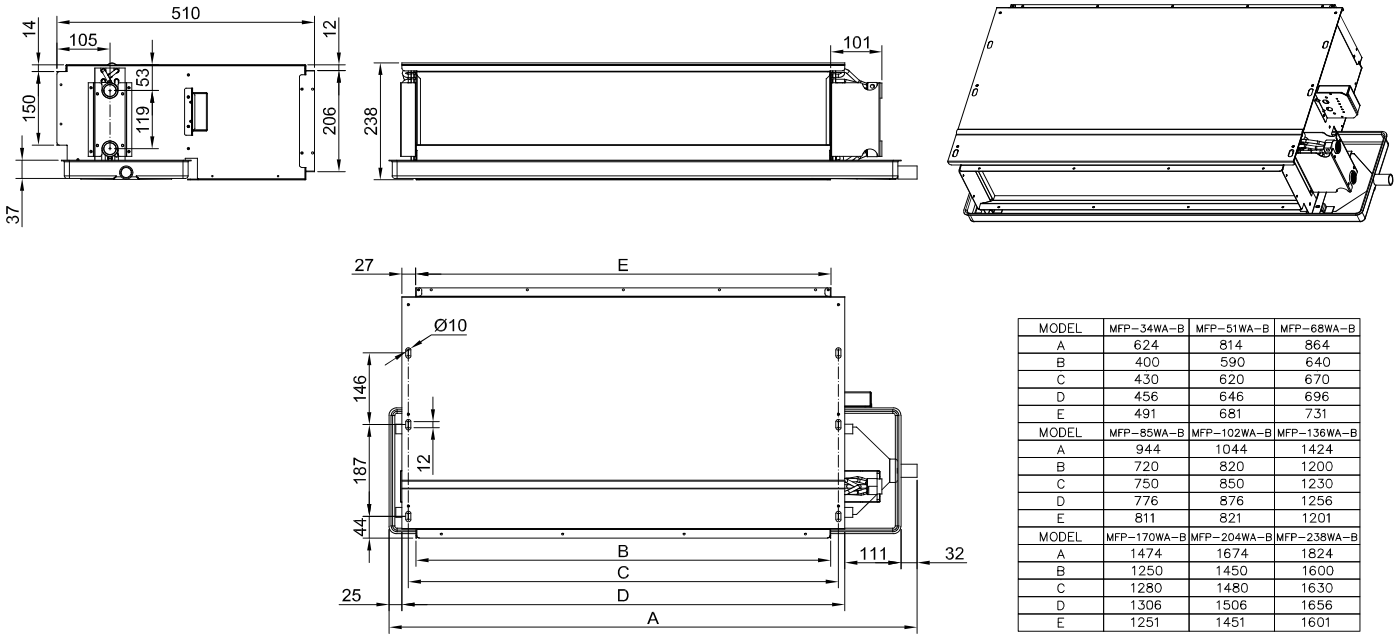






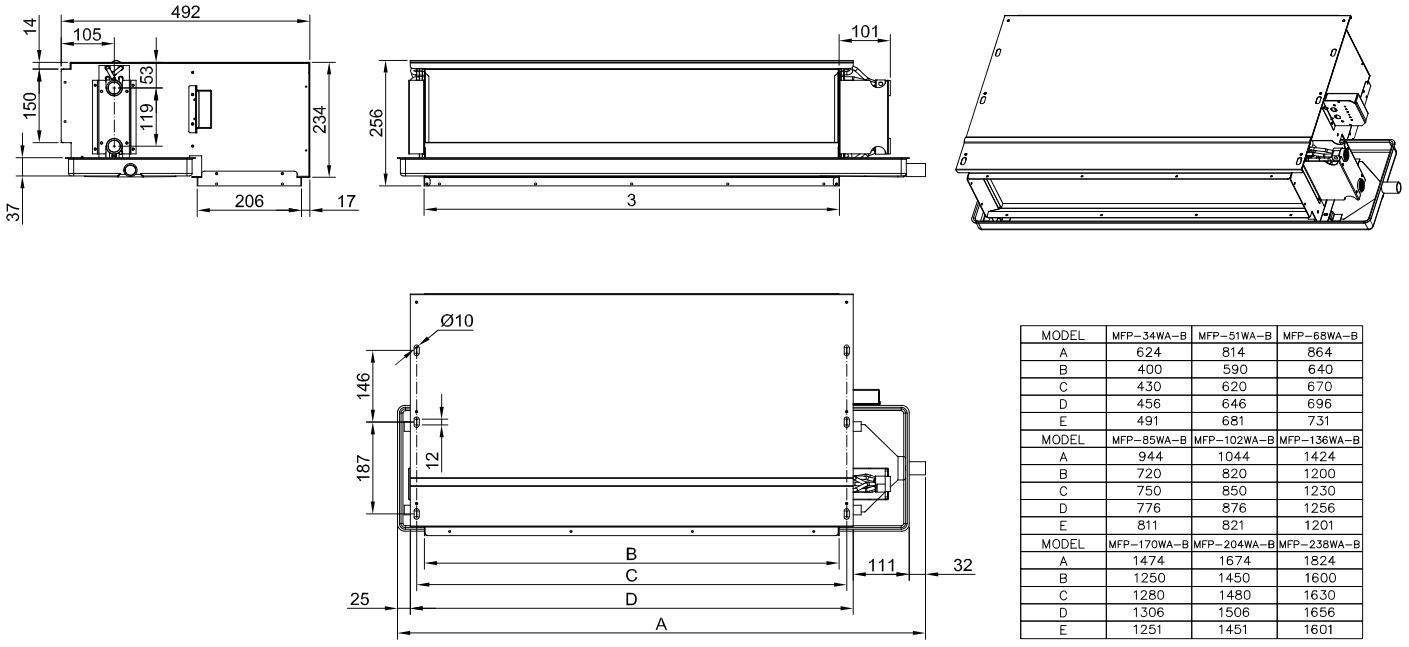
MODEL	MFP-34WA-B	MFP-51WA-B	MFP-68WA-B
A	624	814	864
B	400	590	640
C	430	620	670
D	456	646	696
MODEL	MFP-85WA-B	MFP-102WA-B	MFP-136WA-B
A	944	1044	1424
B	720	820	1200
C	750	850	1230
D	776	876	1256
MODEL	MFP-170WA-B	MFP-204WA-B	MFP-238WA-B
A	1474	1674	1824
B	1250	1450	1600
C	1280	1480	1630
D	1306	1506	1656

Installing dimension(air return from side)



MODEL	MFP-34WA-B	MFP-51WA-B	MFP-68WA-B
A	624	814	864
B	400	590	640
C	430	620	670
D	456	646	696
E	491	681	731
MODEL	MFP-85WA-B	MFP-102WA-B	MFP-136WA-B
A	944	1044	1424
B	720	820	1200
C	750	850	1230
D	776	876	1256
E	811	821	1201
MODEL	MFP-170WA-B	MFP-204WA-B	MFP-238WA-B
A	1474	1674	1824
B	1250	1450	1600
C	1280	1480	1630
D	1306	1506	1656
E	1251	1451	1601

Installing dimension(air return from bottom)



MODEL	MFP-34WA-B	MFP-51WA-B	MFP-68WA-B
A	624	814	864
B	400	590	640
C	430	620	670
D	456	646	696
E	491	681	731
MODEL	MFP-85WA-B	MFP-102WA-B	MFP-136WA-B
A	944	1044	1424
B	720	820	1200
C	750	850	1230
D	776	876	1256
E	811	821	1201
MODEL	MFP-170WA-B	MFP-204WA-B	MFP-238WA-B
A	1474	1674	1824
B	1250	1450	1600
C	1280	1480	1630
D	1306	1506	1656
E	1251	1451	1601

Ceiling conceal ducted type fan coil unit （2-tube system）

Model(2-tube system)				MFP-34WA-B	MFP-51WA-B	MFP-68WA-B	MFP-85WA-B	MFP-102WA-B	MFP-136WA-B	MFP-170WA-B	MFP-204WA-B	MFP-238WA-B
Power supply				220V,50HZ,1PH								
Air volume	H		m^3/h	340	510	680	850	1020	1360	1700	2040	2380
	M			270	380	515	660	765	1040	1280	1550	1800
	L			190	260	340	430	530	710	860	1050	1280
Static pressure			Pa	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)
Cooling capacity	TH	H	W	2150	3200	4000	5000	5800	8000	9500	11300	12800
			BTU/h	7335	10918	13648	17060	19789	27296	32414	38555	43673
	SH		W	1530	2230	2850	3530	4230	5790	6850	8110	9140
			BTU/h	5220	7608	9724	12044	14432	19755	23372	27671	31185
	TH	M	W	1710	2510	3305	4090	4790	6660	7695	9153	10000
	SH		W	1210	1715	2320	2890	3345	4715	5470	6340	7165
	TH	L	W	1355	2000	2470	3000	3520	5150	5870	6820	7850
	SH		W	980	1420	1735	2020	2500	3530	4075	4950	5580
Heating capacity	H		W	3350	5050	6250	7900	9150	12500	15100	17800	20100
	M			2650	3900	5100	6350	7400	10300	11950	14200	15500
	L			2100	3100	3850	4650	5450	8000	9100	10550	12150
Noise	High speed	12Pa	dB(A)	37	39	41	43	45	47	48	50	52
		30/50		39/42	41/44	43/46	45/47	48/49	49/50	50/52	52/54	54/56
Power input	High speed	12Pa	W	37	52	62	76	96	134	152	189	228
		30/50		44/49	59/66	72/84	87/100	108/118	156/174	174/210	212/250	253/300
Waterflow volume	High speed		m^3/h	0.37	0.55	0.69	0.86	0.99	1.37	1.63	1.94	2.19
Pressure dropping			kPa	16	22	18	29	22	27	35	37	38
Water tube connection(inlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	Hydrophilic aluminum fin to wear copper tube								
Maximum working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Condensation pipe size (diameter)			mm	DN20(External thread)								
Net dimension	L×W×H		mm	624×465×235	814×465×235	864×465×235	944×465×235	1044×465×235	1424×465×235	1474×465×235	1674×465×235	1824×465×235
Net weight			kg	11	13	14	16	17	26	29	32	34

Ceiling conceal ducted type fan coil unit （4-tube system）

Model（4-tube system)				MFP-34WA4-B	MFP-51WA4-B	MFP-68WA4-B	MFP-85WA4-B	MFP-102WA4-B	MFP-136WA4-B	MFP-170WA4-B	MFP-204WA4-B	MFP-238WA4-B
Power supply				220V,50HZ,1PH								
Air volume	H		m^3/h	340	510	680	850	1020	1360	1700	2040	2380
	M			270	380	515	660	765	1040	1280	1550	1800
	L			190	260	340	430	530	710	860	1050	1280
Static pressure			Pa	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)	12(30,50)
Cooling capacity	TH	H	W	2150	3200	4000	5000	5800	8000	9500	11300	12800
			BTU/h	7335	10918	13648	17060	19789	27296	32414	38555	43673
	SH		W	1530	2230	2850	3530	4230	5790	6850	8110	9140
			BTU/h	5220	7608	9724	12044	14432	19755	23372	27671	31185
	TH	M	W	1710	2510	3305	4090	4790	6660	7695	9153	10000
	SH		W	1210	1715	2320	2890	3345	4715	5470	6340	7165
	TH	L	W	1355	2000	2470	3000	3520	5150	5870	6820	7850
	SH		W	980	1420	1735	2020	2500	3530	4075	4950	5580
Heating capacity	H		W	1350	2000	2500	3150	3650	5000	6000	7100	8000
	M			1050	1550	2050	2550	2950	4100	4750	5650	6150
	L			850	1250	1550	1850	2150	3200	3600	4200	4850
Noise	High speed	12Pa	dB(A)	37	39	41	43	45	47	48	50	52
		30Pa		39/42	41/44	43/46	45/47	48/49	49/50	50/52	52/54	54/56
Power input	High speed	12Pa	W	37	52	62	76	96	134	152	189	228
		30Pa		44/49	59/66	72/84	87/100	108/118	156/174	174/210	212/250	253/300
Waterflow volume	High speed	Cooling tube	m^3/h	0.37	0.55	0.69	0.86	0.99	1.37	1.63	1.94	2.19
		Heating tube		0.12	0.17	0.21	0.27	0.31	0.43	0.51	0.61	0.69
Pressure dropping		Cooling tube	kPa	16	22	18	29	22	27	35	37	38
		Heating tube		5	8	8	10	10	12	15	16	18
Water tube connection(inlet)		Cooling/heating tube		ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	Hydrophilic aluminum fin to wear copper tube								
Maximum working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Condensation pipe size (diameter)			mm	DN20(External thread)								
Net dimension	L×W×H		mm	624×465×235	814×465×235	864×465×235	944×465×235	1044×465×235	1424×465×235	1474×465×235	1674×465×235	1824×465×235
Net weight			kg	12	14	15	18	19	28	32	35	37

K STYLE SLIM CEILING CONCEAL DUCT TYPE FAN COIL UNIT

Characteristic

1、Thin thickness design

The thickness of the unit is 200 mm, and the inclined coil design is adopted to save the ceiling space.

2、Low noise fan

Innovative plastic fan is adopted. The volute is designed to remove eddy current. The quality is stable and reliable. The operation is stable and the noise is low. The fan runs smoothly and quietly;

3、DC motor is standard

The brushless DC 3-speed (5-speed) motor has long operation life and low noise.

4、Water collection tray

Using high-grade drawing plate, surface spray treatment, smooth, corrosion resistance, rust resistance; one-time stamping process, no weld, solder joint. Overall thermal insulation treatment, thermal insulation layer does not rise and fall offThe two-way diversion port slope design can make the condensate water flow faster without water storage and effectively reduce the bacteria breeding rate; the larger condensate plate design can eliminate the surface cooler and the air conditioner. The condensation water is not easy to drops out at the interface of inlet and outlet pipes;

5、Heat exchanger

High quality copper tube, with high heat transfer efficiency, high toughness, high hardness and other characteristics, can withstand high water pressure, especially suitable for the use of high-rise buildings; fin spacing by computer simulation optimization designThe experimental feedback is improved, the heat exchange area is sufficient, the air outlet is smooth, and the heat exchange efficiency is high;

6、Air return box is standard

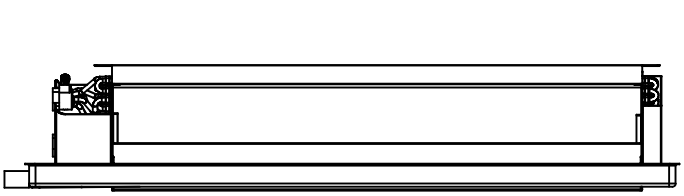
Air return box is standard, which can ease installation,reducing construction cost

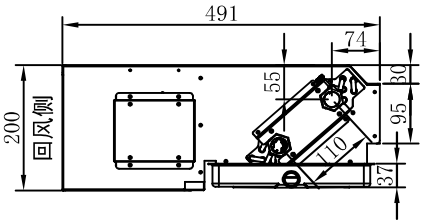
7、High efficency

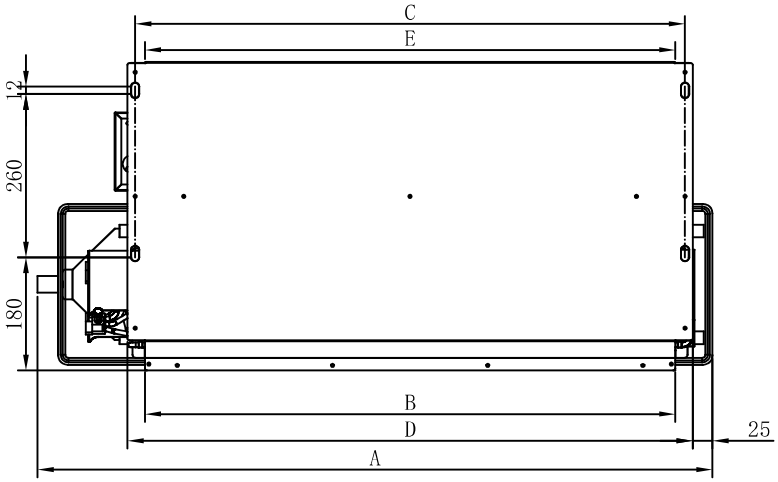
The high efficiency counter current heat exchanger and large diameter centrifugal fan are used to optimize the design of air duct and improve the heat transfer effect of the unit;

8、Left/right pipe connection is customized

Installing dimension







air volume m³/h	340	510	680
A	674	864	914
B	400	590	640
C	430	620	670
D	454	644	694
E	400	590	640

air volume m³/h	850	1020	1360
A	994	1094	1474
B	720	820	1200
C	750	850	1230
D	774	874	1254
E	720	820	1200

air volume m³/h	1700
A	1524
B	1250
C	1280
D	1304
E	1250

unit : mm

Ceiling conceal ducted type fan coil unit (2-tube system)

Model(2-tube system)				DC3-MFP-51WA-K	DC3-MFP-68WA-K	DC3-MFP-85WA-K	DC3-MFP-102WA-K	DC3-MFP-136WA-K	DC3-MFP-170WA-K
Power supply									
Air volume	H		m³/h	510	680	850	1020	1360	1700
	M			310	410	510	610	820	1020
	L			150	200	260	310	410	510
Static pressure			Pa	12(30)	12(30)	12(30)	12(30)	12(30)	12(30)
Cooling capacity	TH	H	W	2950	3700	4600	5350	7350	8750
			BTU/h	10070	12620	15700	18250	25080	29860
	SH		W	2160	2710	3370	3920	5350	6410
			BTU/h	7370	9250	11500	13380	18360	21870
	TH	M	W	2300	2890	3590	4170	5730	6830
	SH		W	1560	1960	2440	2840	3900	4640
	TH	L	W	1330	1670	2070	2410	3310	3940
	SH		W	840	1040	1300	1500	2060	2460
Heating capacity	H		W	4650	5750	7250	8400	11500	13900
	M			3560	4480	5560	6460	8880	10580
	L			2060	2580	3200	3740	5140	6100
Noise	High speed	12Pa	dB(A)	39	41	43	45	46	48
		30/50		41	43	45	47	48	50
Power input	High speed	12Pa	W	30	36	44	56	78	89
		30/50		33	42	50	66	90	100
Waterflow volume	High speed		m³/h	0.51	0.64	0.79	0.92	1.26	1.51
Pressure dropping			kPa	19	16	25	19	23	30
Water tube connection(inlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	Hydrophilic aluminum fin to wear copper tube					
Maximum working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6
Condensation pipe size (diameter)			mm	external screw DN20					
Net dimension	L×W×H		mm	864×491×200	914×491×200	994×491×200	1094×491×200	1474×491×200	1524×491×200
Net weight			kg	13	14	16	17	26	29

Slim style ceiling conceal duct Fan Coil Unit

Characteristic

1、200mm Slim design,beautiful looking,save the space of ceiling;

The fan coil is only 200mm thickness, which is suitable to installed in a height-limited ceiling;

2、Left/Right pipe connection direction is optional;

The water pipe connection direction can be customized , it will benifit to short the installation cost ;

3、Air return box is standard,and air direction can be exchange between side return and bottom return;

No need to add any material,it is easy to change the fan coil air return direction from side to bottom , or from bottom to side,

4、Use plastic fan,which can offer softer air flowing and reduce the noise level;

5、Air volume range is from 300cfm to 900cfm(510-1530m3/h),which is fully satisfy to the necessory of home using;

6、High efficency

Adopt good quality heat exchanger and fan, which is benifit to the heat exchanging capacity and efficiency

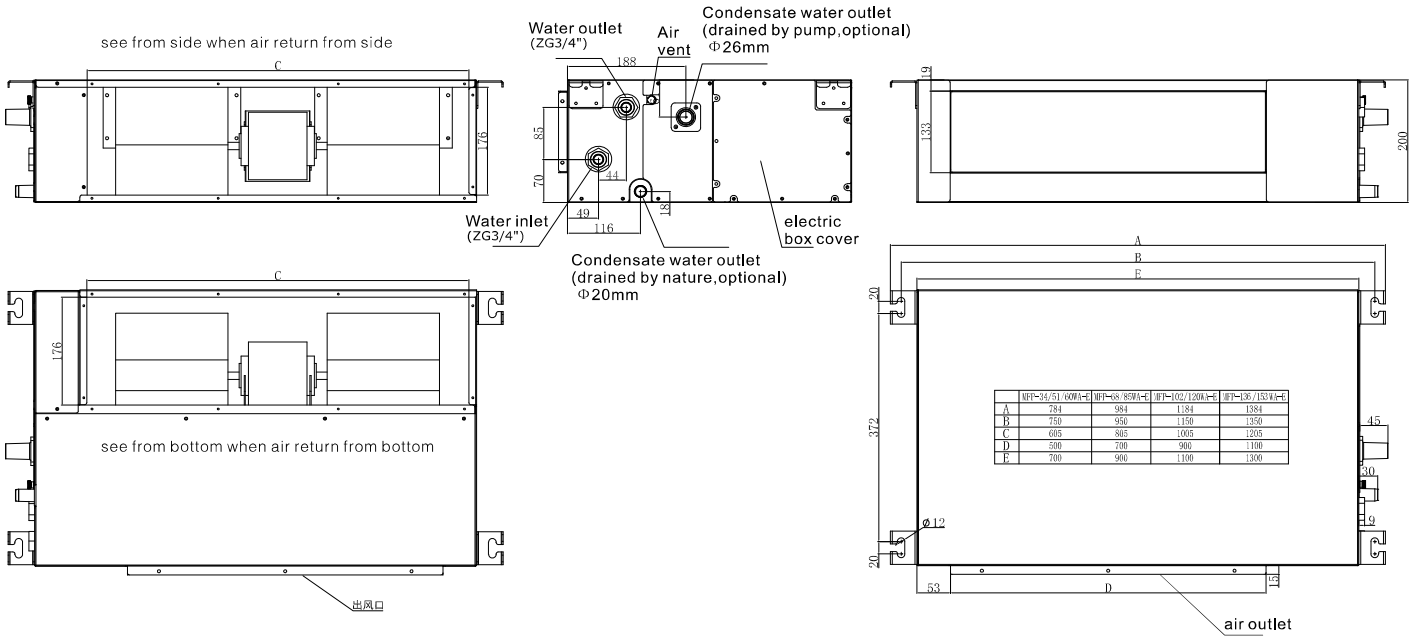
7□ Drian pump is optional

A 700mm lift drain pump is optional to built-in the fan coil, the controlling of drain pump is also built-in;
Water float switch is standard for the FCU which built-in drain pump, to prevent the leaking of draining;

8、DC motor is standard

The brushless DC 3-speed (0-10V stepless) motor has long operation life and low noise.

Installing dimension



	MFP-34/51/60WA-E	MFP-68/85WA-E	MFP-102/120WA-E	MFP-136/153WA-E
A	784	984	1184	1384
B	750	950	1150	1350
C	605	805	1005	1205
D	500	700	900	1100
E	700	900	1100	1300

Slim type ceiling conceal fan coil unit (2-tube system)

Model				DC-MFP-34WA-E	DC-MFP-51WA-E	DC-MFP-60WA-E	DC-MFP-68WA-E	DC-MFP-85WA-E	DC-MFP-102WA-E	DC-MFP-120WA-E	DC-MFP-136WA-E	DC-MFP-153WA-E
Power supply				220V,50Hz,1Ph								
Air volume		H	m^3/h	340	510	600	680	850	1020	1200	1360	1500
		M		200	300	360	400	520	620	720	816	900
		L		100	150	180	200	260	310	360	408	450
Static pressure			Pa	12	12	12	12	12	12	12	12	12
Cooling capacity	TH	H	W	2000	2500	3100	4000	5000	5600	6300	7800	8500
			BTU/h	6824	8530	10577	13648	17060	19107	21496	26610	29000
	SH		W	1490	1863	2310	2980	3725	4172	4694	5800	6322
			BTU/h	5084	6357	7882	10168	12710	14235	16016	19800	21570
	TH	M	W	1440	1800	32220	2880	3600	4020	4530	5610	6110
	SH		W	1050	1290	1620	2070	2580	2910	3270	4040	4400
	TH	L	W	850	1050	1300	1700	2100	2350	2650	3310	3610
	SH		W	540	660	810	1050	1290	1470	1650	2050	2235
Heating capacity	H		W	3200	4100	5000	6500	8100.	9100	10200	12600	13500
	M		W	2300	2960	3600	4680	5840	6560	7340	8980	9620
	L		W	1360	1680	2080	2720	3360	3760	4240	5290	5670
Noise		High speed	dB(A)	31	37	40	40	43	43	46	47	48
Power input		High speed	W	21	28	32	37	45	55	64	75	85
Waterflow volume		High speed	m^3/h	0.34	0.43	0.53	0.68	0.85	0.95	1.07	1.32	1.44
Pressure dropping			kPa	14	21	26	25	28	35	38	38	40
Water tube connection(inlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil				Hydrophilic aluminum fin to wear copper tube								
Maximum working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Condensing water pipe			mm	¢ 26								
Net dimension	L×W×H		mm	700×470×200	700×470×200	700×470×200	900×470×200	900×470×200	1100×470×200	1100×470×200	1300×470×200	1300×470×200
Net weight			kg	15.5	15.5	16.2	18.5	18.5	22.1	22.1	26.5	27.5

APOLLO, THE EXPERT OF FAN COIL UNIT

Universal type fan coil unit

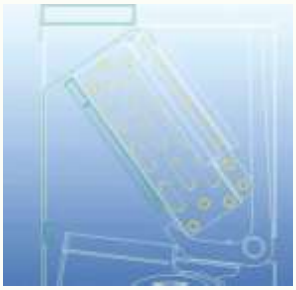
Characteristic

1、Universal design, the unit can be installed by vertical or horizontal.

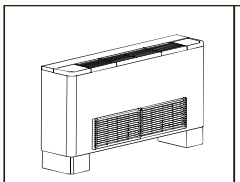
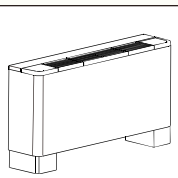
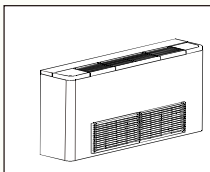
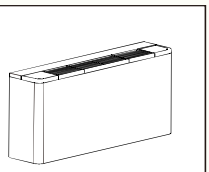
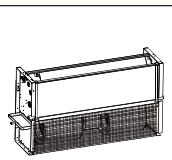
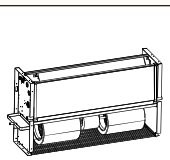
2、Classical elegant design.

3、Use PVC drain pan with 2 water outlet, hollow structure design can enhance the thermal insulation properties, at the same time to prevent from leaking.

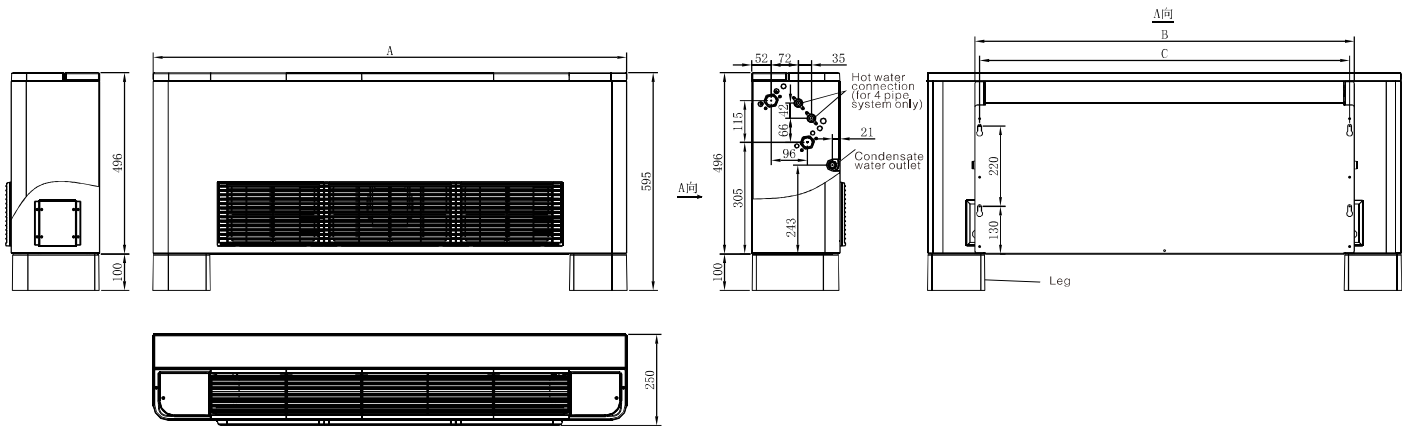
4、Left–Right water pipe connection can be changed freely.



5、6 kind of air distribution solution is optional ;

					
Version style I MFP－**TM－SL	Version style II MFP－**TM－BL	Version style III MFP－**TM－S	Version style IV MFP－**TM－B	Version style V MFP－**TA－S	Version style VI MFP－**TA－B

Installing dimension



Unit: mm

MODEL	MFP-34TM	MFP-51TM	MFP-68TM	MFP-85TM	MFP-102TM	MFP-136TM	MFP-170TM	MFP-204TM	MFP-238TM
A	858	908	1058	1208	1258	1608	1758	1908	2058
B	608	658	808	958	1008	1358	1508	1658	1808
C	583	633	783	933	983	1333	1483	1633	1783
Qty of fan	1	2	2	2	2	4	4	4	4
Qty of motor	1	1	1	1	1	2	2	2	2

Universal type fan coil unit (2–tube system)

Model				MFP–34TM	MFP–51TM	MFP–68TM	MFP–85TM	MFP–102TM	MFP–136TM	MFP–170TM	MFP–204TM	MFP–238TM
Power supply				220V,50Hz,1Ph								
Air volume	H		m^3/h	340	510	680	850	1020	1360	1700	2040	2380
	M			260	390	510	640	770	1020	1280	1530	1790
	L			170	260	340	430	510	680	850	1020	1190
Cooling capacity	TH	H	W	1800	2700	3600	4500	5400	7200	9000	10800	12600
			BTU/h	6142	9212	12283	15354	18425	24566	30708	36850	42991
	SH		W	1368	2052	2736	3420	4103	5471	6839	8207	9575
			BTU/h	4668	7001	9335	11669	13999	18667	23335	28002	32670
	TH	M	W	1494	2242	2989	3736	4483	5978	7472	8967	10461
	SH		W	1181	1771	2362	2952	3541	4722	5903	7084	8265
	TH	L	W	1162	1744	2325	2906	3487	4649	5812	6974	8136
	SH		W	953	1430	1907	2383	2860	3813	4765	5718	6672
Heating capacity	H		W	2700	4050	5400	6750	8100	10800	13500	16200	18900
	M			2131	3197	4262	5328	6393	8524	10655	12786	14917
	L			1675	2511	3349	4186	5024	6697	8372	10046	11721
Noise			High speed dB(A)	37	39	41	43	45	46	48	50	51
Power input			High speed W	37	52	62	76	96	134	152	189	228
Waterflow volume	High speed		m^3/h	0.31	0.46	0.62	0.77	0.93	1.23	1.54	1.85	2.16
Pressure dropping			kPa	7	15	18	23	28	30	22	30	36
Water tube connection(inlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Coil			Type	high efficient copper pipe to wear Hydrophilic aluminum coil								
Maximum working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Condensation pipe size (diameter)			mm	¢ 16								

Universal type fan coil unit (4–tube system)

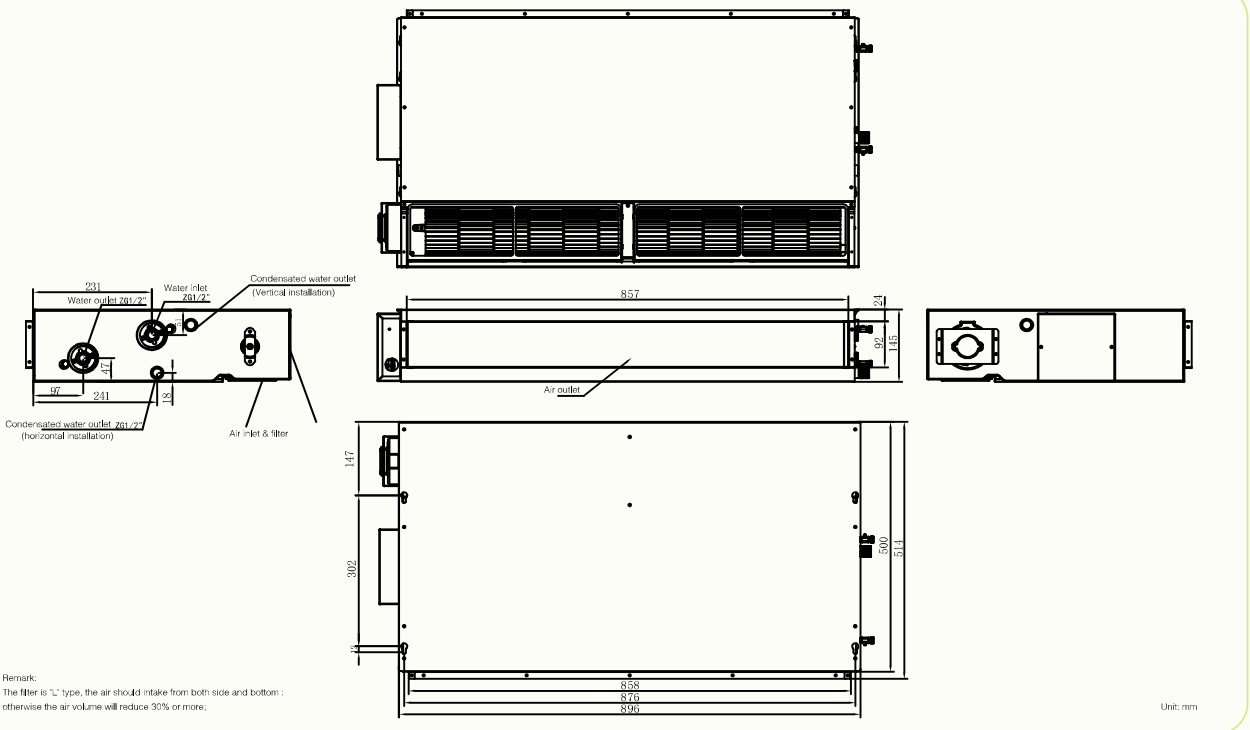
Model				MFP–34TM4	MFP–51TM4	MFP–68TM4	MFP–85TM4	MFP–102TM4	MFP–136TM4	MFP–170TM4	MFP–204TM4	MFP–238TM4
Power supply				220V,50Hz,1Ph								
Air volume	H		m^3/h	340	510	680	850	1020	1360	1700	2040	2380
	M			260	390	510	640	770	1020	1280	1530	1790
	L			170	260	340	430	510	680	850	1020	1190
Cooling capacity	TH	H	W	1800	2700	3600	4500	5400	7200	9000	10800	12600
			BTU/h	6142	9212	12283	15354	18425	24566	30708	36850	42991
	SH		W	1368	2052	2736	3420	4103	5471	6839	8207	9575
			BTU/h	4668	7001	9335	11669	13999	18667	23335	28002	32670
	TH	M	W	1494	2242	2989	3736	4483	5978	7472	8967	10461
	SH		W	1181	1771	2362	2952	3541	4722	5903	7084	8265
	TH	L	W	1162	1744	2325	2906	3487	4649	5812	6974	8136
	SH		W	953	1430	1907	2383	2860	3813	4765	5718	6672
Heating capacity	H		W	1300	1940	2590	3240	3890	5180	6480	7780	9070
	M			1020	1530	2040	2550	3060	4070	5090	6110	7130
	L			820	1230	1630	2040	2450	3270	4080	4900	5720
Noise			High speed dB(A)	37	39	41	43	45	46	48	50	51
Power input			High speed W	37	52	62	76	96	134	152	189	228
Waterflow volume	High speed	Cooling tube	m^3/h	0.31	0.46	0.62	0.77	0.93	1.23	1.54	1.85	2.16
		Heating tube		0.11	0.17	0.22	0.28	0.34	0.45	0.56	0.67	0.78
Water Pressure dropping		Cooling tube	kPa	7	15	18	23	28	30	22	30	36
		Heating tube		2.8	6	7.2	9.2	11.2	12	8.8	12	14.4
Water tube connection(inlet)				ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"	ZG3/4"
Water tube connection(outlet)				ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"
Coil			Type	high efficient copper pipe to wear Hydrophilic aluminum coil								
Maximum working pressure			MPa	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Condensation pipe size (diameter)			mm	¢ 16								

Ultra thin vertical type fan coil unit

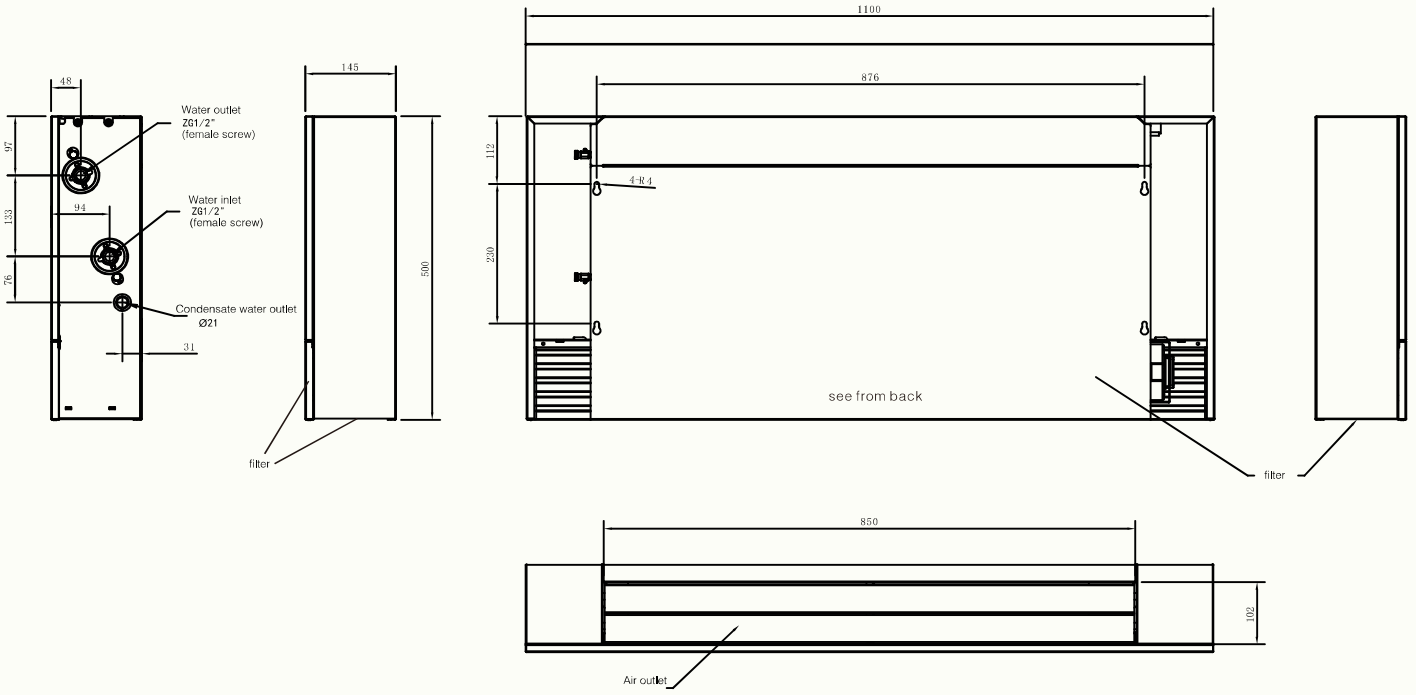
Characteristic

1、Ultra thin design the width of the body is only 145mm;
2、Modern industrial style design, exquisite manufacturing technology and elegant surface. It is cater to modern decoration style;
3、Using the cross flow fan, optimization of pipeline design. Strong wind and quiet running.
4、Auto swing.The air louver can swing by operate the remote controller.
5、Remote controller is standard to convenient the using.
6、Cold wind protection system. It can stop the cold wind blow out when the water temperature in the pipe is too cold.
7、Left/right water pipe can be customized.
Easy for installing work and reduce the dependence on inventory.
8、The side metal plate can be remove before installation which make pipe connection easier.
9、The filter of this product is easy to change.
10、2-way valve and 3-way valve is optional to built-in which can decrease the cost of installation.
11、Installed by floor standing with leg ,or hanged on the wall without leg.
12、485 communication, linkage dry contact for chiller is standard for easy controlling;
13、fan speed can be adjust by dip switch onside PCB,the air volume can be changed accordingly ;
14、DC motor is optional to have higher efficiency;

Installing dimension(Conceal style ,vertical & horizontal)



Installing dimension(Decorative style ,Vertical installation only)



unit:(mm)

Ultra thin fan coil unit (2-tube system)

Model				MFP-30CM-B MFP-30CA-B	MFP-40CA-B MFP-40CM-B	MFP-50CA-B MFP-50CM-B	MFP-60CA-B MFP-60CM-B
Power supply				220V,50Hz,1Ph			
Air volume		H	m^3/h	300	400	500	600
		M		220	300	380	450
		L		160	230	290	340
Static pressure			Pa	0	0	0	0
Cooling capacity	TH	H	W	1800	2400	3100	3700
			BTU/h	6149	8198	10590	12640
		M	W	1450	1900	2500	2900
		L	W	1180	1500	1950	2300
Heating capacity		H	W	2900	3800	5000	5900
		M	W	2300	3050	4000	4650
		L	W	1900	2400	3100	3700
Noise		High speed	dB(A)	36	38	41	43
Power input		High speed	W	35	45	55	65
Waterflow volume		High speed	m^3/h	0.31	0.41	0.53	0.64
Pressure dropping			kPa	18	20	26	28
Water tube connection(inlet)				ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"
Water tube connection(outlet)				ZG1/2"	ZG1/2"	ZG1/2"	ZG1/2"
Coil				Hydrophilic aluminum fin to wear copper tube			
Maximum working pressure			MPa	1.6	1.6	1.6	1.6
Condensing water pipe			mm	¢21			
Net dimension	Decorativted L×W×H		mm	1100×145×500			
	Conceal L×W×H		mm	896×145×515			

DC blushless motor type fan coil unit

Characteristic

1、Use the 3(5) speed DC motor, normal thermostat is fitable for controlling;

2、Use DC motor， with high efficiency and low energy consumption.
The energy consumption of DC motor is average more than 50% AC motor.

3、Long running life

The energy consumption for motor is changed to energy for running and heat,efficiency of AC motor is always 40-45%, it means that there have 55%-60% energy was tranfered to heat.
The heat might cause to the Aging of components, which is harm to the life of motor.
The efficiency of DC brushless motor is always more than 80%-95%, so only little energy change to heat.

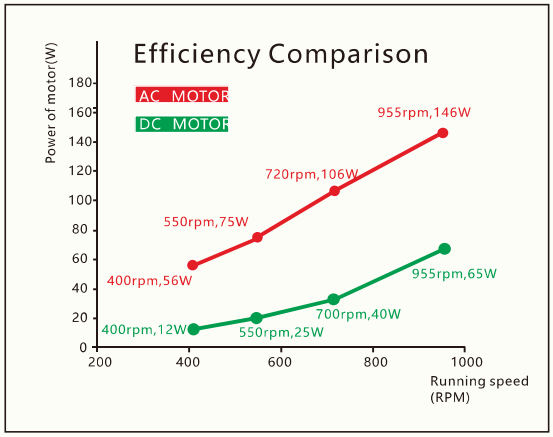
DC3 fan coil product range

Characteristic

1、Use the stepless DC motor, fit special controller(cassette/ultra thin style), or 0~10V fan coil thermostat ;

2、Use Panasonic DC motor, high efficiency and low energy consumption.
The energy consumption of DC motor is average more than 60% compare to AC motor.

Energy consumption	Speed 1	Speed 2	Speed 3	Speed 4
AC motor	146W	106W	75W	56W
DC motor	72W	41W	25W	12W
Energy saving	50.7%	61.3%	66.7%	78.6%



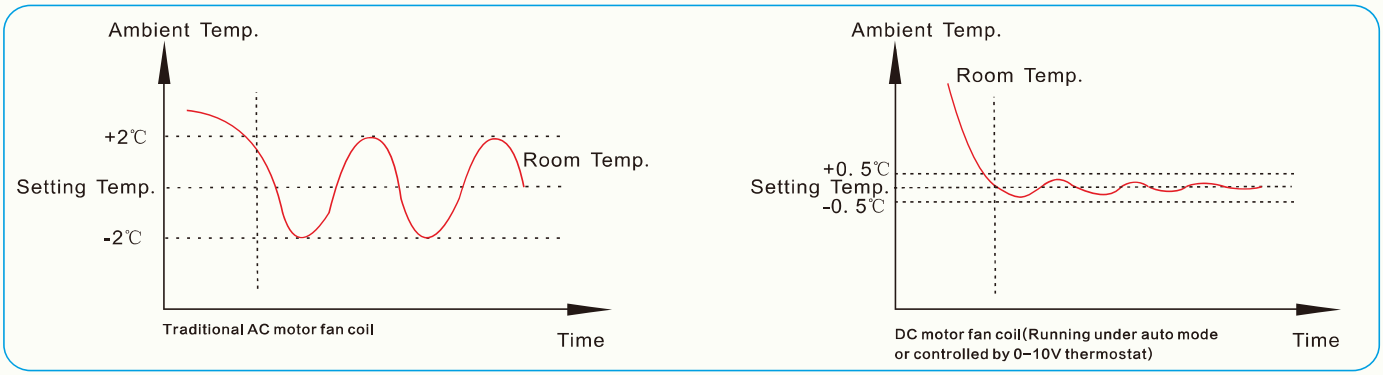
3、Long running life

The energy consumption for motor is changed to energy for running and heat,efficiency of AC motor is always 40-45%, it means that there have 55%-60% energy was tranfered to heat.
The heat might cause to the Aging of components, which is harm to the life of motor.
The efficiency of DC brushless motor is always more than 80%-95%, so only little energy change to heat.

4、Fast cooling/heating & comfortable temperature controlling

If the room temperature have a big distance to the setting temperature, for normal AC style FCU,the fan will run under the setting speed.While the DC style will automatic running at high speed to fast the cooling/heating.

When the room temperature arrived the setting temperature, the AC model style will stop the fan running or close the wate valve, it will cause the cooling/heating can not continue and also the temperature shock in the room;
While the DC style will change the running speed according the temperature distance between the room temperature and the setting temperature, if the distance is big,the fan speed will be higher, and if the distance is smaller, the running speed will reduce too.



DC fan coil product range

APL
Apollo Power