



风机
盘管
机组

Fan Coil Units



ACMA ENGINEERS (PTE) LTD

HEAD OFFICE

17, Jurong Port Road,
Singapore 619092
Tel: +65 6268 7228
Fax: +65 62612771

LIAISON OFFICE

No: 23, Right Circular Road,
Jayanthipura, Battaramulla, Sri Lanka
Tel: +94 112883 999
Fax: +94 112866 472
E-mail: dutycmb@acmagroup.com
Hotlines: +94 773 733 333, +94 777 335 555, +94 773 823 773



● 暗装座 / 吊两用风机盘管 (ZDA)
Ceiling/Floor Concealed FCU (Horizontal / Vertical)

● 卧式明装风机盘管 (WM)
Horizontal Ceiling Exposed FCU

● 明装座 / 吊两用风机盘管 (ZDM)
Ceiling/Floor Exposed FCU (Horizontal / Vertical)

● 卧式暗装大流量风机盘管 (FPD)
Horizontal Large Capacity Concealed FCU



● 卧式暗装风机盘管 (WA;WX)
Horizontal Concealed FCU

● 整体卧式暗装风机盘管 (ZT)
Packaged Horizontal Concealed FCU

● 四面出风天花嵌入式风机盘管 (KM4)
Cassette FCU (4 Ways)

● 双出风天花嵌入式风机盘管 (KM2)
Cassette FCU (2 Ways)

● 嵌墙式风机盘管 (QM)
Wall-Mounted, Recessed FCU

● 卧式暗装风机盘管 (WA;WX)
Horizontal Concealed FCU

● 整体卧式暗装风机盘管 (ZT)
Package Horizontal Concealed FCU

● 立式明装风机盘管 (LM)
Vertical Floor Exposed FCU

● 明装座 / 吊两用风机盘管 (ZDM)
Ceiling / Floor Exposed FCU (Horizontal / Vertical)

● 立柱式风机盘管 (LZ)
Vertical Stacked FCU

CATALOG

Category and sletion of the standard units	01
Correction coefficient of variety condition	02
Remind of the user	04
WA series Horizontal concealed FCU	05
WX series Horizontal concealed FCU	27
Wm series Horizontal exposed FCU	41
LM series Vertical floor exposed FCU	49
KM series Cassette FCU	57
ZT series Package horizontal concealed FCU	69
FPD series Horizontal large capacity coceaied FCU	79



Standard 5°C Difference in temperature correction coefficient

Standard	DB	WB	EWT	LWT
Return air cooling	27°C	19.5°C	7°C	12°C
Return air heating	21°C	---	60°C	---
Fresh air cooling	34°C	28°C	7°C	12°C
Fresh air heating	5°C	---	60°C	---

● In this table, cooling/heating capacity is tested in the condition of GB/19232-2003<FAN COIL UNITS>.

COOLING CAPACITY CORRECTION COEFFICIENT TABLE

Practice condition		Enter temperature of cold water														
EAT DB/WB		5°C	6°C	7°C	8°C	9°C	10°C	11°C	12°C	13°C	14°C	15°C	16°C	17°C	18°C	19°C
RETURN AIR COOLING	24/17 °C	0.88	0.80	0.72	0.64	0.57	0.51	0.42	0.45	0.40	0.37	0.33	0.29	0.26	0.23	0.20
	25/18 °C	1.00	0.91	0.82	0.74	0.66	0.58	0.51	0.47	0.43	0.37	0.33	0.30	0.27	0.24	0.20
	26/19 °C	1.11	1.02	0.94	0.84	0.76	0.67	0.59	0.51	0.45	0.39	0.34	0.30	0.28	0.24	0.21
	27/19.5 °C	1.18	1.09	1.00	0.91	0.82	0.73	0.65	0.58	0.51	0.42	0.35	0.30	0.27	0.23	0.20
	28/20 °C	1.25	1.16	1.06	0.97	0.88	0.79	0.71	0.64	0.56	0.48	0.41	0.33	0.28	0.24	0.21
	29/21 °C	1.37	1.28	1.19	1.09	1.00	0.90	0.81	0.75	0.68	0.60	0.52	0.43	0.35	0.27	0.22
	30/22 °C	1.50	1.42	1.32	1.22	1.13	1.03	0.93	0.85	0.77	0.68	0.60	0.52	0.43	0.34	0.25
31/23 °C	1.65	1.56	1.46	1.36	1.27	1.16	1.06	0.96	0.86	0.77	0.68	0.59	0.50	0.42	0.33	
FRESH AIR COOLING	31/25 °C	0.86	0.82	0.78	0.73	0.68	0.64	0.59	0.53	0.48	0.44	0.39	0.35	0.30	0.26	0.22
	32/26 °C	0.93	0.89	0.85	0.80	0.76	0.71	0.66	0.61	0.56	0.52	0.47	0.42	0.38	0.33	0.28
	33/27 °C	1.01	0.97	0.92	0.88	0.83	0.78	0.73	0.68	0.63	0.58	0.52	0.47	0.41	0.37	0.32
	34/28 °C	1.09	1.04	1.00	0.95	0.91	0.86	0.81	0.76	0.71	0.66	0.61	0.57	0.52	0.47	0.42
	35/29 °C	1.17	1.13	1.08	1.03	0.98	0.94	0.89	0.84	0.79	0.74	0.69	0.65	0.60	0.56	0.51
	36/30 °C	1.25	1.21	1.16	1.12	1.07	1.02	0.97	0.92	0.87	0.82	0.78	0.73	0.68	0.63	0.58
37/31 °C	1.34	1.29	1.25	1.20	1.16	1.11	1.05	1.00	0.95	0.90	0.84	0.79	0.74	0.68	0.63	

HEATING CAPACITY CORRECTION COEFFICIENT TABLE(Standard 10°C difference of temperature)

Practice condition		Enter temperature of hot water					
ENT DB		40°C	50°C	60°C	70°C	80°C	90°C
RETURN AIR COOLING	17°C	0.58	0.82	1.11	1.40	1.68	1.90
	18°C	0.56	0.80	1.09	1.37	1.66	1.87
	19°C	0.54	0.77	1.06	1.34	1.63	1.84
	20°C	0.51	0.74	1.03	1.32	1.60	1.81
	21°C	0.48	0.71	1.00	1.29	1.57	1.79
	22°C	0.45	0.68	0.97	1.26	1.54	1.76
	23°C	0.42	0.65	0.94	1.23	1.52	1.73
24°C	0.39	0.62	0.91	1.20	1.49	1.70	
FRESH AIR COOLING	-10°C	0.90	1.08	1.28	1.47	1.65	1.83
	-5°C	0.81	1.00	1.19	1.38	1.56	1.74
	0°C	0.72	0.90	1.10	1.29	1.47	1.65
	5°C	0.63	0.82	1.00	1.20	1.38	1.56
	10°C	0.54	0.74	0.92	1.12	1.29	1.47
15°C	0.46	0.65	0.83	1.03	1.20	1.38	

Standard condition: EAT Db21°C, FAT Db5°C, EWT 60°C, LWT50°C.

Standard 8°C difference in temperature correction coefficient

Standard	DB	WB	EWT	LWT
Return air cooling	27°C	19.5°C	6°C	14°C
Return air heating	21°C	---	60°C	---
Fresh air cooling	34°C	28°C	6°C	14°C
Fresh air heating	5°C	---	60°C	---

● In this table, cooling/heating capacity is tested in the condition of GB/19232-2003<FAN COIL UNITS>.

COOLING CAPACITY CORRECTION COEFFICIENT TABLE

Practice condition		Enter temperature of cold water															
EAT DB/WB		4°C	5°C	6°C	7°C	8°C	9°C	10°C	11°C	12°C	13°C	14°C	15°C	16°C	17°C	18°C	
RETURN AIR COOLING	24/17 °C	0.86	0.75	0.63	0.56	0.51	0.47	0.42	0.38	0.33	0.28	0.22	0.15	0.03	0.00	0.00	
	25/18 °C	1.00	0.90	0.78	0.65	0.56	0.51	0.47	0.42	0.38	0.33	0.28	0.22	0.15	0.03	0.00	
	26/19 °C	1.14	1.04	0.93	0.81	0.68	0.56	0.51	0.47	0.42	0.38	0.33	0.28	0.22	0.15	0.03	
	27/19.5 °C	1.21	1.11	1.00	0.88	0.76	0.61	0.56	0.51	0.47	0.42	0.38	0.33	0.28	0.22	0.15	
	28/20 °C	1.27	1.18	1.07	0.96	0.84	0.70	0.60	0.56	0.51	0.47	0.42	0.38	0.33	0.28	0.22	
	29/21 °C	1.41	1.32	1.22	1.11	0.99	0.87	0.73	0.60	0.56	0.51	0.47	0.43	0.38	0.33	0.28	
	30/22 °C	1.56	1.47	1.37	1.26	1.15	1.03	0.90	0.75	0.60	0.56	0.51	0.47	0.43	0.38	0.33	
31/23 °C	1.70	1.61	1.52	1.42	1.31	1.20	1.07	0.94	0.78	0.61	0.56	0.51	0.47	0.43	0.38		
FRESH AIR COOLING	31/25 °C	0.86	0.82	0.78	0.73	0.69	0.64	0.59	0.53	0.47	0.40	0.33	0.24	0.20	0.18	0.16	
	32/26 °C	0.93	0.89	0.85	0.81	0.76	0.71	0.66	0.61	0.55	0.49	0.42	0.34	0.25	0.20	0.18	
	33/27 °C	1.00	0.96	0.92	0.88	0.84	0.79	0.74	0.69	0.63	0.57	0.51	0.44	0.36	0.27	0.20	
	34/28 °C	1.08	1.04	1.00	0.96	0.92	0.87	0.82	0.77	0.72	0.66	0.60	0.53	0.46	0.37	0.28	
	35/29 °C	1.15	1.12	1.08	1.04	1.00	0.95	0.90	0.85	0.80	0.75	0.69	0.62	0.55	0.47	0.39	
	36/30 °C	1.24	1.20	1.16	1.12	1.08	1.03	0.99	0.94	0.89	0.83	0.78	0.71	0.65	0.57	0.49	
37/31 °C	1.32	1.28	1.24	1.21	1.16	1.12	1.08	1.03	0.98	0.92	0.87	0.81	0.74	0.67	0.60		

HEATING CAPACITY CORRECTION COEFFICIENT TABLE(Standard 10°C difference of temperature)

Practice condition		Enter temperature of hot water					
ENT DB		40°C	50°C	60°C	70°C	80°C	90°C
RETURN AIR COOLING	17°C	0.58	0.82	1.11	1.40	1.68	1.90
	18°C	0.56	0.80	1.09	1.37	1.66	1.87
	19°C	0.54	0.77	1.06	1.34	1.63	1.84
	20°C	0.51	0.74	1.03	1.32	1.60	1.81
	21°C	0.48	0.71	1.00	1.29	1.57	1.79
	22°C	0.45	0.68	0.97	1.26	1.54	1.76
	23°C	0.42	0.65	0.94	1.23	1.52	1.73
24°C	0.39	0.62	0.91	1.20	1.49	1.70	
FRESH AIR COOLING	-10°C	0.90	1.08	1.28	1.47	1.65	1.83
	-5°C	0.81	1.00	1.19	1.38	1.56	1.74
	0°C	0.72	0.90	1.10	1.29	1.47	1.65
	5°C	0.63	0.82	1.00	1.20	1.38	1.56
	10°C	0.54	0.74	0.92	1.12	1.29	1.47
15°C	0.46	0.65	0.83	1.03	1.20	1.38	

Standard condition: EAT Db21°C, FAT Db5°C, EWT 60°C, LWT50°C.

REMINDE OF THE USER

- Convey the unit lightly. Don't carry it on the fan or pipes. Check if it was damaged before fixing it.
- Keep the units horizontal, so as to the condensate water can be easy to be discharged.
- Remain a maintenance intake and enough space for the units.
- Require of clean water, less than 1MPa pressure, don't force with the pipes and set valves in the water in/outlet.
- Coat with the pipes and valves, avoid the dew infiltrating through the isolation material.
- Exhaust the air in the units with the exhaust fan.
- Immit antifreeze to the water if do some pressure testings in winter, to prevent damaging the pipes.
- Fill with pipes when stop running. Immit antifreeze if run in below 0°C. Discharge the water if stop in a long time.
- Don't fill with the vapour or the water above 85°C, or it will damage the units.
- If over the condition of under table, please increase the water temperature or reduce the water volume. .

Item	Condition
Running	Standard minimum air volume
Enter air	DB27°C、WB24°C、RH78%
Enter water	6°C
Water volume	Stanard
Time	8h

- The high ESP unit should be connected with ducts, the ducts should be coated with insulation material, don't bend in 1m, the air in/outlet should be large enough.
- Electric construction should be according to the wiring diagram.
- Wash and clean the the filter and coil at regular intervals.

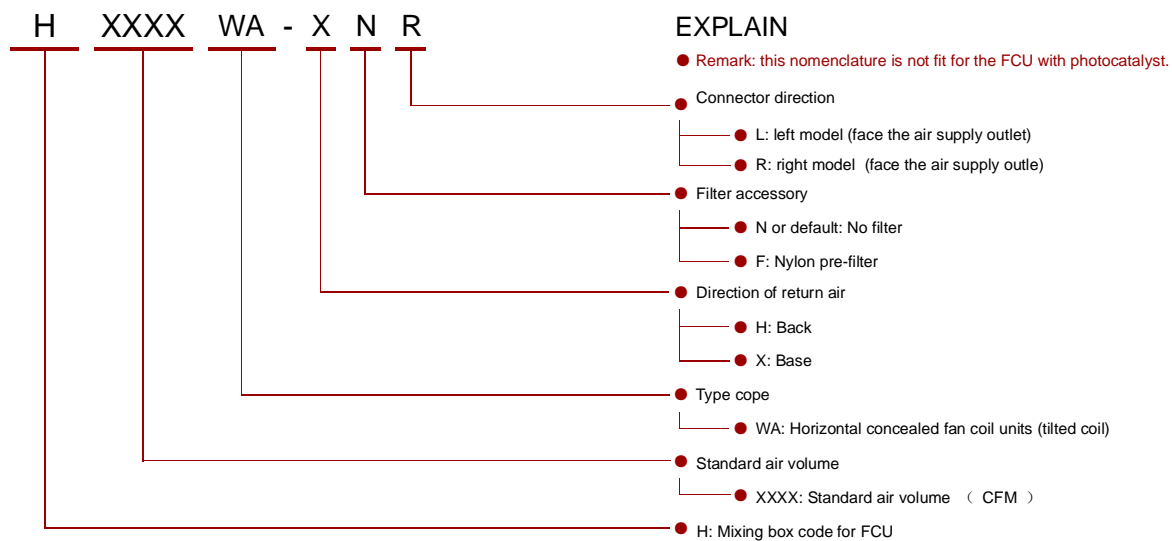
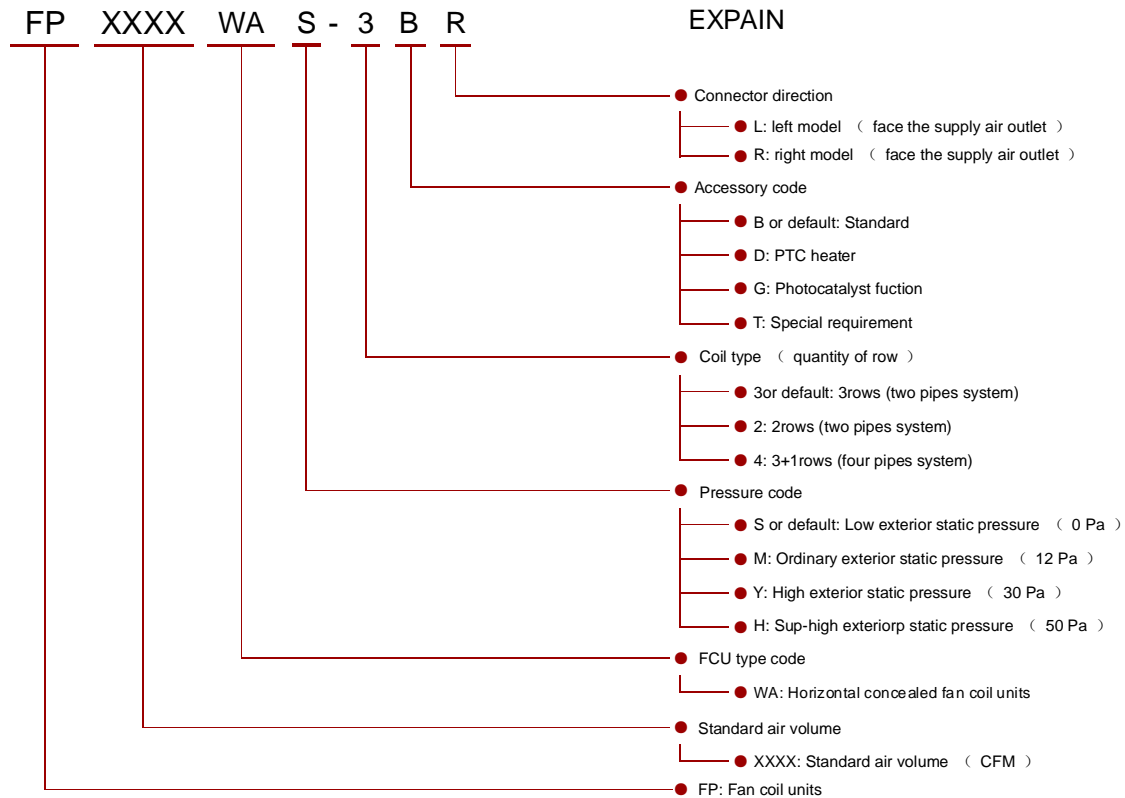


Horizontal Concealed Fan Coil Units **WA**

VERTICAL COIL SERIES

- Classical horizontal cocealed design, thin-type configuration.
- 240standard models , there are two pipes or four pipes system.
- Standard air flow : 180~2,380 CMH (105~1400 CFM).
- Standard cooling capacity : 1.561~12.6kW.
- Standard heating capacity : 0.697~18.9kW.
- PTC heating capacity : 1.0~2.5kW.
- various ESP for choose(0Pa/12Pa/30Pa/50Pa).
- Three stages air velocity (H, M, L), flexible applicability.
- Optional mixing box with various direction of return air (back/base).
- Extruded steel drain pan, with high intension, and antiseptis.
- Low noise level motor, make a quiet and comfortable environment.
- Large diameter centrifugal blower, running calmly and equably.
- High precision bearing. With long running life and dispense with lube.
- The units can be used in intelligitized or remote monitoring environment.

机组型号和铭牌编制说明



Example
 FP400WAY-3DR: Standard air volume is 400CFM(680 m³/h),with high ESP(30 Pa),pipe connector is on the right. 3rows,horizontal concealed FCU with vertical coil.
 H400WA-HFR: FCU type:FP400,horizontal concealed unit with vertical coil equipped with mixing box and net filte, air return from back.



FEATURE :

- Ultra-Slim configuration**
WA series FCU is designed to be thin and light. It's fit for the ceiling space limited occasion.
- Motor**
High precision bearing, high efficiency, dependability, long running life. Dispense with lubricant, and it can save much of the maintenance charge.
- The quietly centrifugal blower**
Equipped with one or more 160mm diameter high effection centrifugal blowers unit. Advantage in enough air supply, low noise level, equality flow, high efficiency.
- Panel**
High strength galvanized steel, galvanized skin >28 μm thick.
- Drain pan**
Drain pan is extruded by the high strength steel. Protected by powder coating paint. Under the drain pan, it is covered with PEF insulation(B1 stage) to prevent any occurrence of condensation. It can be took down and cleaned.
- High efficiency coil**
with special design, the coil can advance the heat exchange efficiency, and reduce the running cost. The coil is with large area and the air flow is with low velocity.
- Filter (optional)**
Set on the return air inlet, nylon net pre-filter.
- Standard mixing box (optional)**
The standard unit is not including the mixing box except required at first. And we can supply the the mixing box as optional accessory.
- Top panel**
The top panel can isolation the internal interior air and of outside, improve the IAQ.
- Testing**
Our products have been check in the integrateion test center. Each unit have finished with the pressure test, electric test and achieve the national standard.
- Connection**
Our standard connector is female-thread pipes, please contact with us before ordering if require other connection. We have left and right connected models for choose.
- Junction box**



FP-WA SPECIFICATION TABLE

●●● VETICAL COIL TWO PIPES SYSTEM

Model			FP200WA*-3*	FP300WA*-3*	FP400WA*-3*	FP500WA*-3*	FP600WA*-3*				
STANDARD AIR VOLUME	H	m ³ /h	340	510	680	850	1,020				
	M		280	380	515	660	765				
	L		180	260	340	430	530				
STANDARD COOLING CAP.	TOTAL	H	W	2,020	3,010	3,830	4,770	5,960			
			kcal/h	1,737	2,589	3,294	4,102	5,126			
			BTU/h	6,894	10,273	13,072	16,280	20,341			
			W	1,471	2,197	2,872	3,375	4,631			
			kcal/h	1,265	1,889	2,470	2,903	3,983			
			BTU/h	5,020	7,498	9,802	11,519	15,805			
	SENSIBLE	M	W	1,683	2,742	3,191	3,938	4,882			
			W	1,116	1,733	2,122	2,574	3,356			
			TOTAL	L	W	1,561	2,293	2,637	3,096	4,186	
					W	924	1,338	1,628	1,936	2,619	
					STANDARD HEATING CAP.	H	3,030	4,515	5,745	7,155	8,940
						M	2,187	3,088	4,190	5,196	6,284
L	1,456	1,978	2,957	3,715		4,278					
NOISE LEVEL	H	LOW ESP	≤ 36	≤ 37	≤ 38	≤ 42	≤ 44				
		NORMAL ESP	≤ 37	≤ 39	≤ 41	≤ 43	≤ 45				
		HIGH ESP	≤ 38	≤ 40	≤ 42	≤ 44	≤ 45				
		SUP-HIGH ESP	≤ 42	≤ 44	≤ 46	≤ 47	≤ 49				
		dB(A)									
FIGURE SIZE	LENGTH	mm	830	930	1,030	1,140	1,250				
	WIDTH		480	480	480	480	480				
	HEIGHTH		248	248	248	248	248				
NET WEIGHT	NO MIXING BOX	kg	15	16	18	20	22				
	BACK-MIXING BOX		18	20	22	25	28				
	BASE-MIXING BOX		18	20	22	25	28				

- Design and test according to the GB/T19232-2003<FAN COIL UNITS>.We supply the non-standard product upon customer's request.
- Standard cooling cap.was tested and carried out in environment of EAT 27 °C DB/19.5 °C WB, EWT7 °C , LWT12 °C .
- Standard heating cap.was tested and carried out in environment of 21 °C DB , EWT60 °C , water volume is equal to that in cooling running.
- Noise level is testing standard is GB/T19232-2003 <FAN COIL UNI>.
- In above table, H meansthe high velocity, M means the middle velocity, L means the low velocity.
- The blower and motor can be installed to be removable upon customer's reques. (The same figure size)
- Optional mixing box.



FP-WA SPECIFICATION TABLE

●●● VETICAL COIL TWO PIPES SYSTEM

			FP700WA*-3*	FP800WA*-3*	FP1000WA*-3*	FP1200WA*-3*	FP1400WA*-3*				
STANDARD AIR VOLUME	H	m ³ /h	1,200	1,360	1,700	2,040	2,380				
	M		910	1,040	1,280	1,550	1,800				
	L		610	710	860	1,050	1,190				
STANDARD COOLING CAP.	TOTAL	H	W	6,620	7,580	9,520	10,800	12,600			
			kcal/h	5,693	6,519	8,187	9,288	10,836			
			BTU/h	22,594	25,870	32,491	36,860	43,003			
			W	4,964	5,645	7,095	8,072	9,383			
			kcal/h	4,269	4,855	6,102	6,942	8,069			
			BTU/h	16,942	19,266	24,215	27,549	32,024			
	SENSIBLE	M	W	5,916	6,775	8,301	9,296	10,623			
			W	3,942	4,460	5,705	6,603	8,069			
			TOTAL	L	W	5,154	5,900	7,640	8,534	8,056	
					W	3,138	3,457	4,671	5,248	6,065	
					STANDARD HEATING CAP.	H	9,930	11,370	14,280	16,200	18,900
						M	7,313	8,342	11,078	12,997	16,807
L	5,046	5,707	7,396	8,645		13,422					
NOISE LEVEL	H	LOW ESP	≤ 44	≤ 44	≤ 46	≤ 47	≤ 52				
		NORMAL ESP	≤ 45	≤ 46	≤ 48	≤ 50	≤ 52				
		HIGH ESP	≤ 45	≤ 46	≤ 48	≤ 50	≤ 52				
		SUP-HIGH ESP	≤ 50	≤ 50	≤ 52	≤ 54	≤ 56				
		dB(A)									
FIGURE SIZE	LENGTH	mm	1,490	1,640	1,740	1,850	1,950				
	WIDTH		480	480	480	480	480				
	HEIGHTH		248	248	248	248	248				
NET WEIGHT	NO MIXING BOX	kg	29	31	33	35	38				
	BACK-MIXING BOX		36	38	41	44	47				
	BASE-MIXING BOX		36	38	41	44	47				

- Design and test according to the GB/T19232-2003<FAN COIL UNITS>.We supply the non-standard product upon customer's request.
- Standard cooling cap.was tested and carried out in environment of EAT 27 °C DB/19.5 °C WB, EWT7 °C , LWT12 °C .
- Standard heating cap.was tested and carried out in environment of 21 °C DB , EWT60 °C , water volume is equal to that in cooling running.
- Noise level is testing standard is GB/T19232-2003 <FAN COIL UNI>.
- In above table, H meansthe high velocity, M means the middle velocity, L means the low velocity.
- The blower and motor can be installed to be removable upon customer's reques. (The same figure size)
- Optional mixing box.



FP-WA OPTIONAL ACCESSORY & MAIN DATA TABLE



OPTIONAL ACCESSORY

MODEL		FP200WA*-3*	FP300WA*-3*	FP400WA*-3*	FP500WA*-3*	FP600WA*-3*	
PTC HEATER	POWER	220V/1~/50Hz					
	HEATING CAPACITY	W	1,000	1,000	1,500	1,500	1,500
		kcal/h	860	860	1,290	1,290	1,290
		BTU/h	3,413	3,413	5,119	5,119	5,119
MIXING BOX	MODEL		H200WA-*	H300WA-*	H400WA-*	H500WA-*	H600WA-*
	BACK RETURN	FILER SIZE	580 X 256	680 X 256	780 X 256	890 X 256	1,000 X 256
		QUANTITY	1	1	1	1	1
	BASE RETURN	FILER SIZE	580 X 237	680 X 237	780 X 237	890 X 237	1,000 X 237
		QUANTITY	1	1	1	1	1
	CONTROL VALVE UNITS		Two-way valve	Two-way valve	Two-way valve	Two-way valve	Two-way valve
THERMOSTAT		THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	

MAIN DATA

MODEL		FP200WA*-3*	FP300WA*-3*	FP400WA*-3*	FP500WA*-3*	FP600WA*-3*		
CONFIGURATION		Made of galvanized steel, galvanized skin>28um						
MOTOR	TYPE	Capacitance-type motor						
	QUANTITY	1	1	1	1	1		
	BEARING	Highprecision bearing, dispense with lubricant						
	POWER	220V/1~/50Hz (optional)						
	POWER INPUT (H)	LOW ESP	35	40	45	68	90	
		NORMAL ESP	37	52	62	76	96	
HIGH ESP		44	59	72	87	108		
SUP-HIGH ESP		49	66	84	100	118		
BLOWER	TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN						
	QUANTITY	1	1	2	2	2		
	ESP	LOW ESP	0	0	0	0	0	
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
SUP-HIGH ESP		50	50	50	50	50		
COIL	TYPE	Inside screw tubes/ Smooth tubes with aluminum fins						
	ROW	3	3	3	3	3		
	COOLING	WATER FLOW	m ³ /h	0.348	0.518	0.659	0.821	1.026
		WATER PRE. DROP	kPa	8	9	21	27	33
		EWT / LWT	°C	7/12	7/12	7/12	7/12	7/12
	HEATING	WATER FLOW	m ³ /h	0.348	0.518	0.659	0.821	1.026
		WATER PRE. DROP	kPa	8	9	21	27	33
		EWT / LWT	°C	60	60	60	60	60
	MAX WORKING PRESSURE	MPa	1.6	1.6	1.6	1.6	1.6	

Remark: in above table, the power input (W) is for the whole units.

FP-WA OPTIONAL ACCESSORY & MAIN DATA TABLE



OPTIONAL ACCESSORY

MODEL		FP700WA*-3*	FP800WA*-3*	FP1000WA*-3*	FP1200WA*-3*	FP1400WA*-3*	
PTC HEATER	POWER	220V/1~/50Hz					
	HEATING CAPACITY	W	2,000	2,000	2,000	2,500	2,500
		kcal/h	1,720	1,720	1,720	2,150	2,150
		BTU/h	6,826	6,826	6,826	8,532	8,532
MIXING BOX	MODEL		H700WA-*	H800WA-*	H1000WA-*	H1200WA-*	H1400WA-*
	BACK RETURN	FILER SIZE	1,240 X 256	1,390 X 256	1,490 X 256	1,600 X 256	1,700 X 256
		QUANTITY	1	1	1	1	1
	BASE RETURN	FILER SIZE	1,240 X 237	695 X 237	745 X 237	800 X 237	850 X 237
		QUANTITY	1	2	2	2	2
	CONTROL VALVE UNITS		Two-way valve	Two-way valve	Two-way valve	Two-way valve	Two-way valve
THERMOSTAT		THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	

MAIN DATA

MODEL		FP700WA*-3*	FP800WA*-3*	FP1000WA*-3*	FP1200WA*-3*	FP1400WA*-3*		
CONFIGURATION		Made of galvanized steel, galvanized skin>28um						
MOTOR	TYPE	Capacitance-type motor						
	QUANTITY	2	2	2	2	2		
	BEARING	Highprecision bearing, dispense with lubricant						
	POWER	220V/1~/50Hz (optional)						
	POWER INPUT (H)	LOW ESP	100	122	150	185	222	
		NORMAL ESP	113	134	152	189	228	
HIGH ESP		134	152	174	212	253		
SUP-HIGH ESP		158	174	210	250	300		
BLOWER	TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN						
	QUANTITY	3	3	4	4	4		
	ESP	LOW ESP	0	0	0	0	0	
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
SUP-HIGH ESP		50	50	50	50	50		
COIL	TYPE	Inside screw tubes/ Smooth tubes with aluminum fins						
	ROW	3	3	3	3	3		
	COOLING	WATER FLOW	m ³ /h	1.140	1.305	1.639	1.859	2.170
		WATER PRE. DROP	kPa	11	13	21	25	31
		EWT / LWT	°C	7/12	7/12	7/12	7/12	7/12
	HEATING	WATER FLOW	m ³ /h	1.140	1.305	1.639	1.859	2.170
		WATER PRE. DROP	kPa	11	13	21	25	31
		EWT / LWT	°C	60	60	60	60	60
	MAX WORKING PRESSURE	MPa	1.6	1.6	1.6	1.6	1.6	

Remark: in above table, the power input (W) is for the whole units.



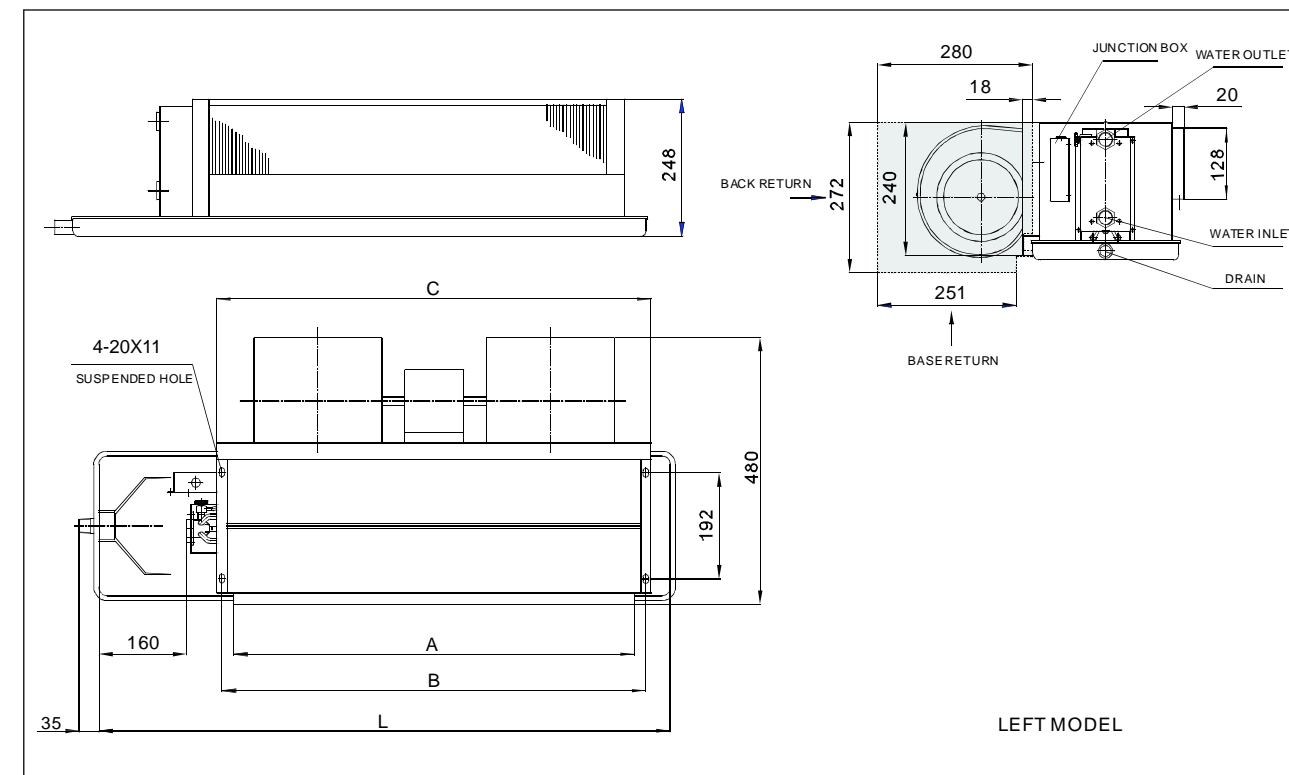
FP-WA TRASPORT & FIX FIGURE SIZE



Figure size

MODEL		FP200WA*-3*	FP300WA*-3*	FP400WA*-3*	FP500WA*-3*	FP600WA*-3*	
TRANSPORT DATA (NO MIXING BOX)	PACKING SIZE	LENGTH mm	915	1,015	1,115	1,225	1,335
		WIDTH mm	500	500	500	500	500
		HEIGHT mm	270	270	270	270	270
TRANSPORT WEIGHT		kg	20	21	23	25	27
FIXING SIZE	AIR RETURN INLET(C)	mm	585	685	785	895	1,005
	AIR RETURN INLET(H)	mm	272(back return) / 251(base return)				
	AIR SUPPLY OUTLET(A)	mm	523	623	723	833	943
	AIR SUPPLY OUTLET(H)	mm	128	128	128	128	128
	DISTANCE OF SUSPEND HOLDS(B)	mm	565	665	765	875	985
	DISTANCE OF SUSPEND HOLDS(W)	mm	192	192	192	192	192
	DIAMETER OF COOLING WATER PIPES	Inch	3/4" Inside taper pipe thread				
	DIAMETER OF DRAIN PIPES	Inch	3/4" outside taper pipe thread				

FP-WM FIGURE DIAGRAM



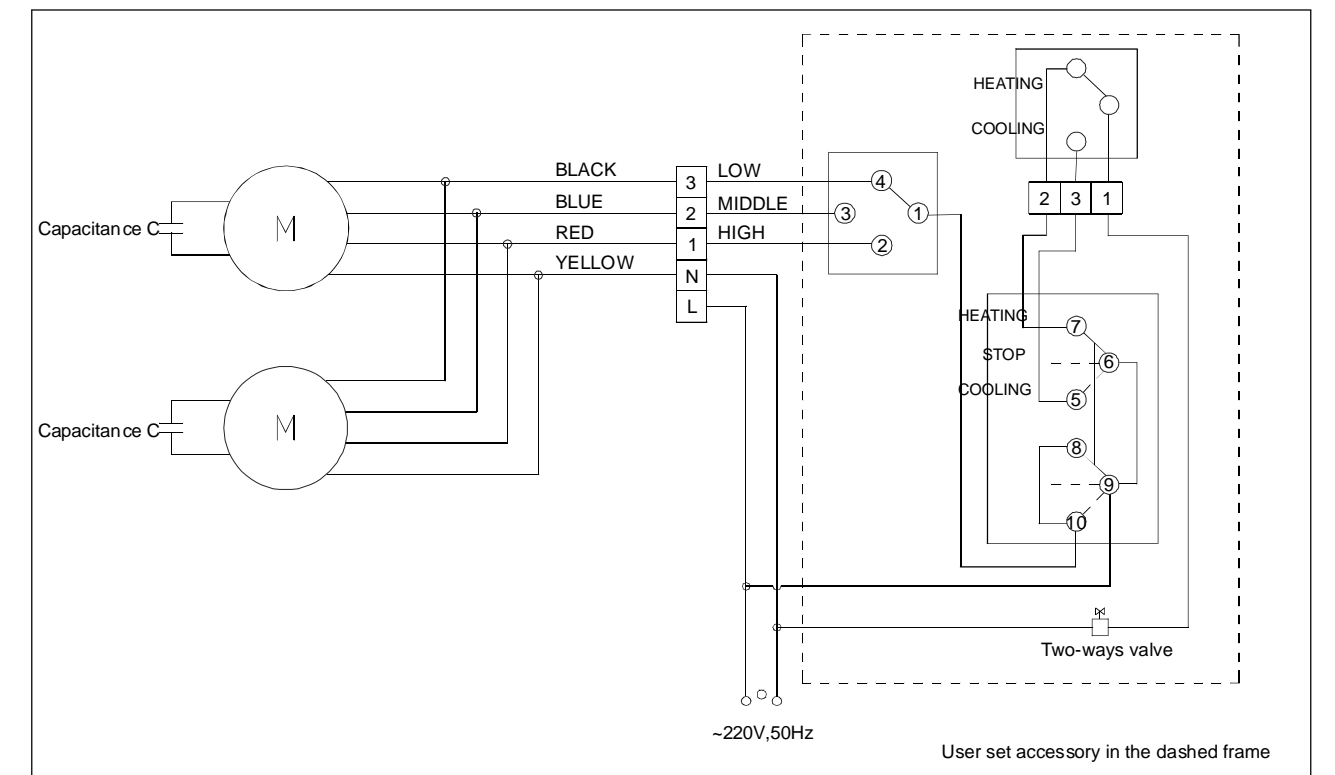
FP-WA TRASPORT & FIX FIGURE SIZE



Figure size

MODEL		FP700WA*-3*	FP800WA*-3*	FP1000WA*-3*	FP1200WA*-3*	FP1400WA*-3*	
TRANSPORT DATA (NO MIXING BOX)	PACKING SIZE	LENGTH mm	1,575	1,725	1,825	1,935	2,035
		WIDTH mm	500	500	500	500	500
		HEIGHT mm	270	270	270	270	270
TRANSPORT WEIGHT		kg	35	37	40	43	45
FIXING SIZE	AIR RETURN INLET(C)	mm	1,245	1,395	1,495	1,605	1,705
	AIR RETURN INLET(H)	mm	272(back return) / 251(base return)				
	AIR SUPPLY OUTLET(A)	mm	1,183	1,333	1,433	1,543	1,643
	AIR SUPPLY OUTLET(H)	mm	128	128	128	128	128
	DISTANCE OF SUSPEND HOLDS(B)	mm	1,225	1,375	1,475	1,585	1,685
	DISTANCE OF SUSPEND HOLDS(W)	mm	192	192	192	192	192
	DIAMETER OF COOLING WATER PIPES	Inch	3/4" Inside taper pipe thread				
	DIAMETER OF DRAIN PIPES	Inch	3/4" outside taper pipe thread				

CIRCUIT DIAGRAM OF FP-WA FCU





FP-WA SPECIFICATION TABLE

◎◎● VETICAL COIL FOUR PIPES SYSTEM

Model		FP200WA*-4*	FP300WA*-4*	FP400WA*-4*	FP500WA*-4*	FP600WA*-4*			
STANDARD AIR VOLUME	H	340	510	680	850	1,020			
	M	280	380	515	660	765			
	L	180	260	340	430	530			
STANDARD COOLING CAP. (3ROWS)	TOTAL	H	W	2,020	3,010	3,830	4,770	5,960	
			kcal/h	1,737	2,589	3,294	4,102	5,126	
			BTU/h	6,894	10,273	13,072	16,280	20,341	
		SENSIBLE	W	1,471	2,197	2,872	3,375	4,631	
			kcal/h	1,265	1,889	2,470	2,903	3,983	
			BTU/h	5,020	7,498	9,802	11,519	15,805	
	TOTAL	M	W	1,683	2,742	3,191	3,938	4,882	
			kcal/h	1,116	1,733	2,122	2,574	3,356	
			BTU/h	1,561	2,293	2,637	3,096	4,186	
		SENSIBLE	L	W	924	1,338	1,628	1,936	2,619
				kcal/h					
				BTU/h					
STANDARD HEATING CAP. (1ROW)	H	1,450	2,175	2,900	3,625	4,350			
	M	1,046	1,488	2,115	2,633	3,058			
	L	697	953	1,502	1,882	2,082			
NOISE LEVEL	H	LOW ESP	≤ 34	≤ 35	≤ 36	≤ 39	≤ 40		
		NORMAL ESP	≤ 36	≤ 38	≤ 40	≤ 42	≤ 44		
		HIGH ESP	≤ 37	≤ 39	≤ 41	≤ 43	≤ 44		
		SUP-HIGH ESP	≤ 41	≤ 43	≤ 45	≤ 46	≤ 48		
FIGURE SIZE	LENGTH	830	930	1,030	1,140	1,250			
	WIDTH	480	480	480	480	480			
	HEIGHTH	248	248	248	248	248			
NET WEIGHT	NO MIXING BOX	17	18	21	23	25			
	BACK-MIXING BOX	20	22	25	28	31			
	BASE-MIXING BOX	20	22	25	28	31			

- Design and test according to the GB/T19232-2003<FAN COIL UNITS>.We supply the non-standard product upon customer's request.
- Standard cooling cap.was tested and carried out in environment of EAT 27 °C DB/19.5 °C WB, EWT7 °C , LWT12 °C .
- Standard heating cap.was tested and carried out in environment of 21 °C DB , EWT60 °C , water volume is equal to that in cooling running.
- Noise level is testing standard is GB/T19232-2003 <FAN COIL UNIT>
- In above table, H meansthe high velocity, M means the middle velocity, L means the low velocity.
- The blower and motor can be installed to be removable upon customer's reques. (The same figure size)
- Optional mixing box.



FP-WA SPECIFICATION TABLE

◎◎● VETICAL COIL FOUR PIPES SYSTEM

Model		FP700WA*-4*	FP800WA*-4*	FP1000WA*-4*	FP1200WA*-4*	FP1400WA*-4*			
STANDARD AIR VOLUME	H	1,200	1,360	1,700	2,040	2,380			
	M	910	1,040	1,280	1,550	1,800			
	L	610	710	860	1,050	1,190			
STANDARD COOLING CAP. (3ROWS)	TOTAL	H	W	6,620	7,580	9,520	10,800	12,600	
			kcal/h	5,693	6,519	8,187	9,288	10,836	
			BTU/h	22,594	25,870	32,491	36,860	43,003	
		SENSIBLE	W	4,964	5,645	7,095	8,072	9,383	
			kcal/h	4,269	4,855	6,102	6,942	8,069	
			BTU/h	16,942	19,266	24,215	27,549	32,024	
	TOTAL	M	W	5,916	6,775	8,301	9,296	10,623	
			kcal/h	3,942	4,460	5,705	6,603	8,069	
			BTU/h	5,154	5,900	7,640	8,534	10,056	
		SENSIBLE	L	W	3,138	3,457	4,671	5,248	6,065
				kcal/h					
				BTU/h					
STANDARD HEATING CAP. (1ROW)	H	5,007	5,774	6,886	7,932	8,897			
	M	3,687	4,236	5,341	5,590	6,672			
	L	2,544	2,898	3,566	4,232	4,626			
NOISE LEVEL	H	LOW ESP	≤ 41	≤ 41	≤ 44	≤ 47	≤ 49		
		NORMAL ESP	≤ 44	≤ 45	≤ 47	≤ 49	≤ 50		
		HIGH ESP	≤ 44	≤ 45	≤ 47	≤ 49	≤ 51		
		SUP-HIGH ESP	≤ 49	≤ 49	≤ 51	≤ 54	≤ 56		
FIGURE SIZE	LENGTH	1,490	1,640	1,740	1,850	1,950			
	WIDTH	480	480	480	480	480			
	HEIGHTH	248	248	248	248	248			
NET WEIGHT	NO MIXING BOX	33	35	37	39	43			
	BACK-MIXING BOX	40	42	45	48	52			
	BASE-MIXING BOX	40	42	45	48	52			

- Design and test according to the GB/T19232-2003<FAN COIL UNITS>.We supply the non-standard product upon customer's request.
- Standard cooling cap.was tested and carried out in environment of EAT 27 °C DB/19.5 °C WB, EWT7 °C , LWT12 °C .
- Standard heating cap.was tested and carried out in environment of 21 °C DB , EWT60 °C , water volume is equal to that in cooling running.
- Noise level is testing standard is GB/T19232-2003 <FAN COIL UNIT>
- In above table, H meansthe high velocity, M means the middle velocity, L means the low velocity.
- The blower and motor can be installed to be removable upon customer's reques. (The same figure size)
- Optional mixing box.



FP-WA OPTIONAL ACCESSORY & MAIN DATA TABLE



OPTIONAL ACCESSORY

MODEL			FP200WA*-4*	FP300WA*-4*	FP400WA*-4*	FP500WA*-4*	FP600WA*-4*	
PTC HEATER	POWER	V/Ph/Hz	220V/1~/50Hz					
	HEATING CAPACITY	W	---	---	---	---	---	
		kcal/h	---	---	---	---	---	
		BTU/h	---	---	---	---	---	
MIXING BOX	MODEL		H200WA-*	H300WA-*	H400WA-*	H500WA-*	H600WA-*	
	BACK RETURN	FILER SIZE	mm	580 X 256	680 X 256	780 X 256	890 X 256	1,000 X 256
		QUANTITY		1	1	1	1	1
	BASE RETURN	FILER SIZE	mm	580 X 237	680 X 237	780 X 237	890 X 237	1,000 X 237
QUANTITY			1	1	1	1	1	
CONTROL VALVE UNITS			Two-way valve	Two-way valve	Two-way valve	Two-way valve	Two-way valve	
THERMOSTAT			THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	

MAIN DATA

MODEL			FP200WA*-4*	FP300WA*-4*	FP400WA*-4*	FP500WA*-4*	FP600WA*-4*	
CONFIGURATION			Made of galvanized steel, galvanized skin>28um					
MOTOR	TYPE		Capacitance-type motor					
	QUANTITY		1	1	1	1	1	
	BEARING		Highprecision bearing, dispense with lubricant					
	POWER		V/Ph/Hz	220V/1~/50Hz (optional)				
	POWER INPUT (H)	LOW ESP	W	35	40	45	68	90
		NORMAL ESP		37	52	62	76	96
HIGH ESP		44		59	72	87	108	
SUP-HIGH ESP		49		66	84	100	118	
BLOWER	TYPE		DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
	QUANTITY		1	1	2	2	2	
	ESP	LOW ESP	Pa	0	0	0	0	0
		NORMAL ESP		12	12	12	12	12
		HIGH ESP		30	30	30	30	30
SUP-HIGH ESP		50		50	50	50	50	
COIL	TYPE		Inside screw tubes/ Smooth tubes with aluminum fins					
	COOLING	ROW	3	3	3	3	3	
		WATER FLOW	m ³ /h	0.348	0.518	0.659	0.821	1.026
		WATER PRE. DROP	kPa	8	9	21	27	33
		EWT/ LWT	°C	7/12	7/12	7/12	7/12	7/12
	HEATING	ROW	1	1	1	1	1	
		WATER FLOW	m ³ /h	0.125	0.188	0.25	0.313	0.375
		WATER PRE. DROP	kPa	10	14	24	38	57
		EWT/ LWT	°C	60/50	60/50	60/50	60/50	60/50
		MAX WORKING PRESSURE		MPa	1.6	1.6	1.6	1.6

● Remark: in above table, the power input (W) is for the whole units.

FP-WA OPTIONAL ACCESSORY & MAIN DATA TABLE



OPTIONAL ACCESSORY

MODEL			FP700WA*-4*	FP800WA*-4*	FP1000WA*-4*	FP1200WA*-4*	FP1400WA*-4*	
PTC HEATER	POWER	V/Ph/Hz	220V/1~/50Hz					
	HEATING CAPACITY	W	---	---	---	---	---	
		kcal/h	---	---	---	---	---	
		BTU/h	---	---	---	---	---	
MIXING BOX	MODEL		H700WA-*	H800WA-*	H1000WA-*	H1200WA-*	H1400WA-*	
	BACK RETURN	FILER SIZE	mm	1,240 X 256	1,390 X 256	1,490 X 256	1,600 X 256	1,700 X 256
		QUANTITY		1	1	1	1	1
	BASE RETURN	FILER SIZE	mm	1,240 X 237	695 X 237	745 X 237	800 X 237	850 X 237
QUANTITY			1	2	2	2	2	
CONTROL VALVE UNITS			Two-way valve	Two-way valve	Two-way valve	Two-way valve	Two-way valve	
THERMOSTAT			THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	

MAIN DATA

MODEL			FP700WA*-4*	FP800WA*-4*	FP1000WA*-4*	FP1200WA*-4*	FP1400WA*-4*	
CONFIGURATION			Made of galvanized steel, galvanized skin>28um					
MOTOR	TYPE		Capacitance-type motor					
	QUANTITY		2	2	2	2	2	
	BEARING		Highprecision bearing, dispense with lubricant					
	POWER		V/Ph/Hz	220V/1~/50Hz (optional)				
	POWER INPUT (H)	LOW ESP	W	100	122	150	185	222
		NORMAL ESP		113	134	152	189	228
HIGH ESP		134		152	174	212	253	
SUP-HIGH ESP		160		174	210	250	300	
BLOWER	TYPE		DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
	QUANTITY		3	3	4	4	4	
	ESP	LOW ESP	Pa	0	0	0	0	0
		NORMAL ESP		12	12	12	12	12
		HIGH ESP		30	30	30	30	30
SUP-HIGH ESP		50		50	50	50	50	
COIL	TYPE		Inside screw tubes/ Smooth tubes with aluminum fins					
	COOLING	ROW	3	3	3	3	3	
		WATER FLOW	m ³ /h	1.140	1.305	1.639	1.859	2.170
		WATER PRE. DROP	kPa	11	13	21	25	31
		EWT/ LWT	°C	7/12	7/12	7/12	7/12	7/12
	HEATING	ROW	1	1	1	1	1	
		WATER FLOW	m ³ /h	0.441	0.500	0.625	0.750	0.875
		WATER PRE. DROP	kPa	13	18	26	36	46
		EWT/ LWT	°C	60/50	60/50	60/50	60/50	60/50
		MAX WORKING PRESSURE		MPa	1.6	1.6	1.6	1.6

● Remark: in above table, the power input (W) is for the whole units.



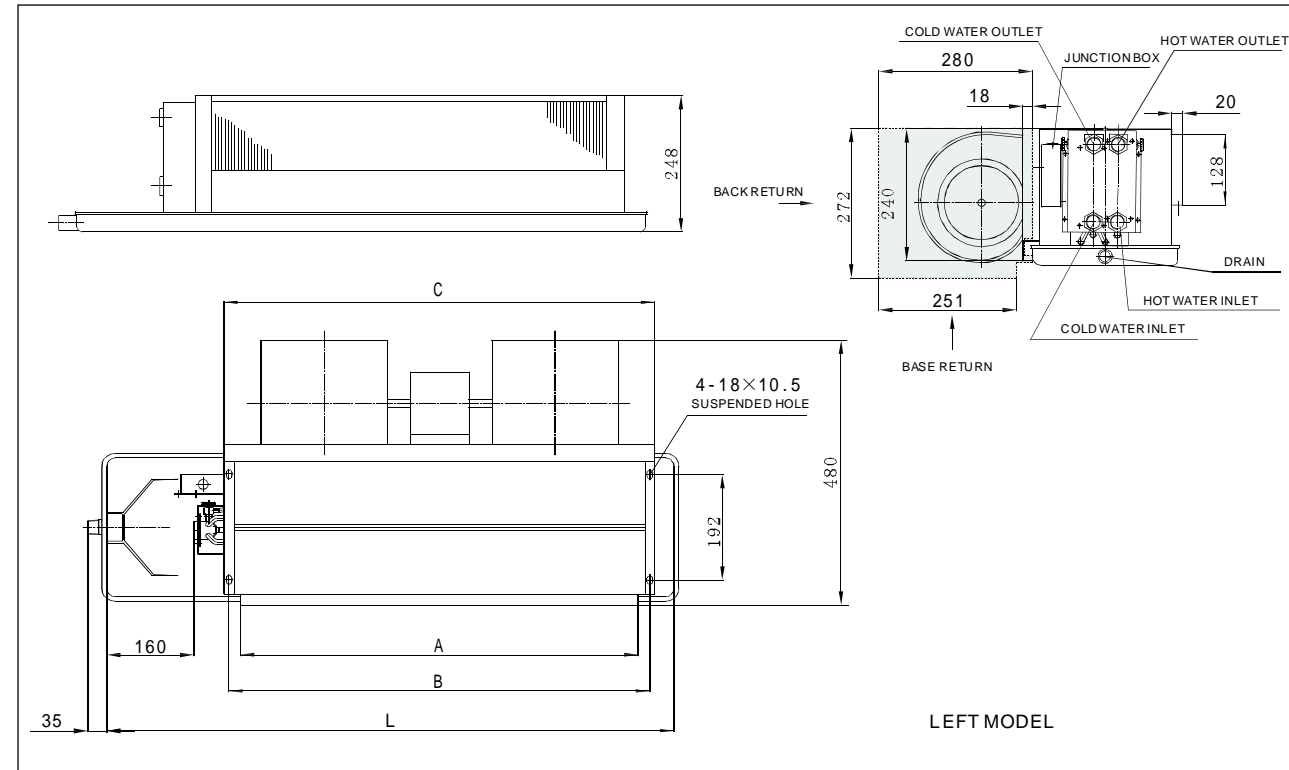
FP-WA TRASPORT & FIX FIGURE SIZE



Figure size

MODEL		FP200WA*-4*	FP300WA*-4*	FP400WA*-4*	FP500WA*-4*	FP600WA*-4*	
TRANSPORT DATA (NO MIXING BOX)	PACKING SIZE	LENGTH mm	915	1,015	1,115	1,225	1,335
		WIDTH mm	500	500	500	500	500
		HEIGHT mm	270	270	270	270	270
TRANSPORT WEIGHT		kg	22	23	26	29	31
FIXING SIZE	AIR RETURN INLET(C)	mm	585	685	785	895	1,005
	AIR RETURN INLET(H)	mm	272(back return) / 251(base return)				
	AIR SUPPLY OUTLET(A)	mm	523	623	723	833	943
	AIR SUPPLY OUTLET(H)	mm	128	128	128	128	128
	DISTANCE OF SUSPEND HOLDS(B)	mm	565	665	765	875	985
	DISTANCE OF SUSPEND HOLDS(W)	mm	192	192	192	192	192
	DIAMETER OF COOLING WATER PIPES	Inch	3/4" Inside taper pipe thread				
	DIAMETER OF DRAIN PIPES	Inch	3/4" outside taper pipe thread				

FP-WM FIGURE DIAGRAM



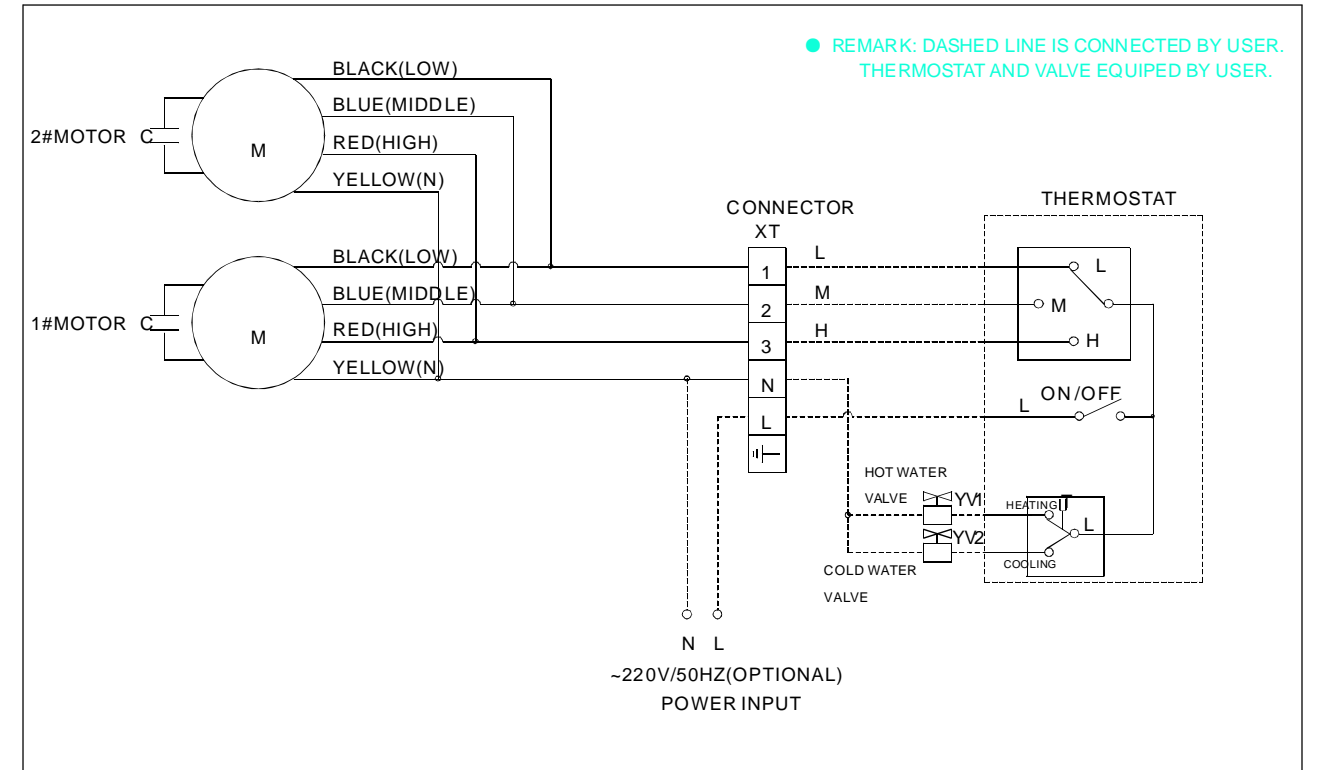
FP-WA TRASPORT & FIX FIGURE SIZE



Figure size

MODEL		FP700WA*-4*	FP800WA*-4*	FP1000WA*-4*	FP1200WA*-4*	FP1400WA*-4*	
TRANSPORT DATA (NO MIXING BOX)	PACKING SIZE	LENGTH mm	1,575	1,725	1,825	1,935	2,035
		WIDTH mm	500	500	500	500	500
		HEIGHT mm	270	270	270	270	270
TRANSPORT WEIGHT		kg	39	42	46	48	50
FIXING SIZE	AIR RETURN INLET(C)	mm	1,245	1,395	1,495	1,605	1,705
	AIR RETURN INLET(H)	mm	272(back return) / 251(base return)				
	AIR SUPPLY OUTLET(A)	mm	1,183	1,333	1,433	1,543	1,643
	AIR SUPPLY OUTLET(H)	mm	128	128	128	128	128
	DISTANCE OF SUSPEND HOLDS(B)	mm	1,225	1,375	1,475	1,585	1,685
	DISTANCE OF SUSPEND HOLDS(W)	mm	192	192	192	192	192
	DIAMETER OF COOLING WATER PIPES	Inch	3/4" Inside taper pipe thread				
	DIAMETER OF DRAIN PIPES	Inch	3/4" outside taper pipe thread				

CIRCUIT DIAGRAM OF FP-WA FCU





FP-WA SPECIFICATION TABLE

●●● VERTICAL COIL TWO PIPES SYSTEM PHOTOCATALYST

Model			FP200WA*-3G*	FP300WA*-3G*	FP400WA*-3G*	FP500WA*-3G*	FP600WA*-3G*			
STANDARD AIR VOLUME	H	m ³ /h	340	510	680	850	1,020			
	M		280	380	515	660	765			
	L		180	260	340	430	530			
STANDARD COOLING CAP.	TOTAL	H	W	2,020	3,010	3,830	4,770	5,960		
			kcal/h	1,737	2,589	3,294	4,102	5,126		
			BTU/h	6,894	10,273	13,072	16,280	20,341		
			W	1,471	2,197	2,872	3,375	4,631		
			kcal/h	1,265	1,889	2,470	2,903	3,983		
			BTU/h	5,020	7,498	9,802	11,519	15,805		
	SENSIBLE	M	W	1,683	2,742	3,191	3,938	4,882		
			W	1,116	1,733	2,122	2,574	3,356		
			L	W	1,561	2,293	2,637	3,096	4,186	
				W	924	1,338	1,628	1,936	2,619	
				STANDARD HEATING CAP.	H	3,030	4,515	5,745	7,155	8,940
					M	2,187	3,088	4,190	5,196	6,284
L	1,456	1,978			2,957	3,715	4,278			
NOISE LEVEL	H	LOW ESP		≤ 36	≤ 37	≤ 38	≤ 42	≤ 44		
		NORMAL ESP	≤ 37	≤ 39	≤ 41	≤ 43	≤ 45			
		HIGH ESP	≤ 38	≤ 40	≤ 42	≤ 44	≤ 45			
		SUP-HIGH ESP	≤ 42	≤ 44	≤ 46	≤ 47	≤ 49			
FIGURE SIZE	STANDARD LENGTH	mm	830	930	1,030	1,140	1,250			
	UNITS WIDTH		610	610	610	610	610			
	(BASE RETURN) HEIGHT		272	272	272	272	272			
NET WEIGHT	BASE MIXING BOX	kg	18	20	22	25	27			

OPTIONAL ACCESSORY

MODEL			FP200WA*-3G*	FP300WA*-3G*	FP400WA*-3G*	FP500WA*-3G*	FP600WA*-3G*
PTC HEATER	POWER	V/Ph/Hz	220V/1~50Hz				
	HEATING CAPACITY	W	1,000	1,000	1,500	1,500	1,500
		kcal/h	860	860	1,290	1,290	1,290
		BTU/h	3,413	3,413	5,119	5,119	5,119
CONTROL VALVE UNITS			Two-way valve	Two-way valve	Two-way valve	Two-way valve	Two-way valve
THERMOSTAT			THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT

- Design and test according to the GB/T19232-2003<FAN COIL UNITS>. We supply the non-standard product upon customer's request.
- Standard cooling cap. was tested and carried out in environment of EAT 27 °C DB/19.5 °C WB, EWT7 °C, LWT12 °C.
- Standard heating cap. was tested and carried out in environment of 21 °C DB, EWT60 °C, water volume is equal to that in cooling running.
- Noise level is testing standard is GB/T19232-2003 <FAN COIL UNIT>.
- In above table, H means the high velocity, M means the middle velocity, L means the low velocity.
- The blower and motor can be installed to be removable upon customer's request. (The same figure size)
- FCU with photocatalyst equipped with mixing box.



FP-WA SPECIFICATION TABLE

●●● VERTICAL COIL TWO PIPES SYSTEM PHOTOCATALYST

Model			FP700WA*-3G*	FP800WA*-3G*	FP1000WA*-3G*	FP1200WA*-3G*	FP1400WA*-3G*			
STANDARD AIR VOLUME	H	m ³ /h	1,200	1,360	1,700	2,040	2,380			
	M		910	1,040	1,280	1,550	1,800			
	L		610	710	860	1,050	1,190			
STANDARD COOLING CAP.	TOTAL	H	W	6,620	7,580	9,520	10,800	12,600		
			kcal/h	5,693	6,519	8,187	9,288	10,836		
			BTU/h	22,594	25,870	32,491	36,860	43,003		
			W	4,964	5,645	7,095	8,072	9,383		
			kcal/h	4,269	4,855	6,102	6,942	8,069		
			BTU/h	16,942	19,266	24,215	27,549	32,024		
	SENSIBLE	M	W	5,916	6,775	8,301	9,296	10,623		
			W	3,942	4,460	5,705	6,603	8,069		
			L	W	5,154	5,900	7,640	8,534	10,056	
				W	3,138	3,457	4,671	5,248	6,065	
				STANDARD HEATING CAP.	H	9,930	11,370	14,280	16,200	18,900
					M	7,313	8,342	11,078	12,997	16,807
L	5,046	5,707			7,396	8,645	13,422			
NOISE LEVEL	H	LOW ESP		≤ 44	≤ 44	≤ 46	≤ 47	≤ 52		
		NORMAL ESP	≤ 45	≤ 46	≤ 48	≤ 50	≤ 52			
		HIGH ESP	≤ 45	≤ 46	≤ 48	≤ 50	≤ 52			
		SUP-HIGH ESP	≤ 50	≤ 50	≤ 52	≤ 54	≤ 56			
FIGURE SIZE	STANDARD LENGTH	mm	1,490	1,640	1,740	1,850	1,950			
	UNITS WIDTH		610	610	610	610	610			
	(BASE RETURN) HEIGHT		272	272	272	272	272			
NET WEIGHT	BASE MIXING BOX	kg	34	36	39	41	45			

OPTIONAL ACCESSORY

MODEL			FP700WA*-3G*	FP800WA*-3G*	FP1000WA*-3G*	FP1200WA*-3G*	FP1400WA*-3G*
PTC HEATER	POWER	V/Ph/Hz	220V/1~50Hz				
	HEATING CAPACITY	W	2,000	2,000	2,000	2,500	2,500
		kcal/h	1,720	1,720	1,720	2,150	2,150
		BTU/h	6,826	6,826	6,826	8,532	8,532
CONTROL VALVE UNITS			Two-way valve	Two-way valve	Two-way valve	Two-way valve	Two-way valve
THERMOSTAT			THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT	THREE-SPEED THERMOSTAT

- Design and test according to the GB/T19232-2003<FAN COIL UNITS>. We supply the non-standard product upon customer's request.
- Standard cooling cap. was tested and carried out in environment of EAT 27 °C DB/19.5 °C WB, EWT7 °C, LWT12 °C.
- Standard heating cap. was tested and carried out in environment of 21 °C DB, EWT60 °C, water volume is equal to that in cooling running.
- Noise level is testing standard is GB/T19232-2003 <FAN COIL UNIT>.
- In above table, H means the high velocity, M means the middle velocity, L means the low velocity.
- The blower and motor can be installed to be removable upon customer's request. (The same figure size)
- FCU with photocatalyst equipped with mixing box.



FP-WA MAIN DATA & TRANSPORT DATA TABLE

VERTICAL COIL PHOTOCATALYST TWO PIPES SYSTEM

MAIN DATA

MODEL		FP200WA*-3G*	FP300WA*-3G*	FP400WA*-3G*	FP500WA*-3G*	FP600WA*-3G*		
CONFIGURATION		Made of galvanized steel, galvanized skin>28um						
MOTOR	TYPE	Capacitance-type motor						
	QUANTITY	1	1	1	1	1		
	BEARING	High precision bearing, dispense with lubricant						
	POWER	220V/1~/50Hz (optional)						
	POWER INPUT (H)	W	35	40	45	68	90	
BLOWER	ESP	LOW ESP	0	0	0	0	0	
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
		SUP-HIGH ESP	50	50	50	50	50	
		TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
QUANTITY	1	1	2	2	2			
MIXING BOX	BACK RETURN	LOW ESP	0	0	0	0		
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
		SUP-HIGH ESP	50	50	50	50	50	
		TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
QUANTITY	1	1	2	2	2			
COIL	COOLING	ROW	3	3	3	3	3	
		WATER FLOW	m³/h	0.348	0.518	0.659	0.821	1.026
		WATER PRE. DROP	kPa	8	9	21	27	33
		EWT/LWT	°C	7/12	7/12	7/12	7/12	7/12
		HEATING	ROW	3	3	3	3	3
MIXING BOX	BACK RETURN	LOW ESP	0	0	0	0	0	
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
		SUP-HIGH ESP	50	50	50	50	50	
		TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
QUANTITY	1	1	2	2	2			
COIL	HEATING	ROW	3	3	3	3	3	
		WATER FLOW	m³/h	0.348	0.518	0.659	0.821	1.026
		WATER PRE. DROP	kPa	8	9	21	27	33
		EWT/LWT	°C	60	60	60	60	60
		MAX WORKING PRESSURE	MPa	1.6	1.6	1.6	1.6	1.6

Remark: in above table, the power input (W) is for the whole units.

TRANSPORT DATA

MODEL		FP200WA*-3G*	FP300WA*-3G*	FP400WA*-3G*	FP500WA*-3G*	FP600WA*-3G*		
TRANSPORT DATA (NO MIXING BOX)	PACKING SIZE	LENGTH	mm	915	1,015	1,115	1,225	1,335
		WIDTH	mm	640	640	640	640	640
		HEIGHT	mm	297	297	297	297	297
	TRANSPORT WEIGHT	kg	22	25	27	29	33	
FIXING SIZE	AIR RETURN INLET(C)	mm	585	685	785	895	1,005	
	AIR RETURN INLET(H)	mm	272	272	272	272	272	
	AIR SUPPLY OUTLET(A)	mm	523	623	723	833	943	
	AIR SUPPLY OUTLET(H)	mm	128	128	128	128	128	
	DISTANCE OF SUSPEND HOLDS(B)	mm	565	665	765	875	985	
	DISTANCE OF SUSPEND HOLDS(W)	mm	192	192	192	192	192	
	DIAMETER OF COOLING WATER PIPES	Inch	3/4" Inside taper pipe thread					
	DIAMETER OF DRAIN PIPES	Inch	3/4" outside taper pipe thread					

FP-WA MAIN DATA & TRANSPORT DATA TABLE

VERTICAL COIL PHOTOCATALYST TWO PIPES SYSTEM

MAIN DATA

MODEL		FP700WA*-3G*	FP800WA*-3G*	FP1000WA*-3G*	FP1200WA*-3G*	FP1400WA*-3G*		
CONFIGURATION		Made of galvanized steel, galvanized skin>28um						
MOTOR	TYPE	Capacitance-type motor						
	QUANTITY	2	2	2	2	2		
	BEARING	High precision bearing, dispense with lubricant						
	POWER	220V/1~/50Hz (optional)						
	POWER INPUT (H)	W	100	122	150	185	222	
BLOWER	ESP	LOW ESP	0	0	0	0	0	
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
		SUP-HIGH ESP	50	50	50	50	50	
		TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
QUANTITY	3	3	4	4	4			
MIXING BOX	BACK RETURN	LOW ESP	0	0	0	0		
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
		SUP-HIGH ESP	50	50	50	50	50	
		TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
QUANTITY	3	3	4	4	4			
COIL	COOLING	ROW	3	3	3	3	3	
		WATER FLOW	m³/h	1.140	1.305	1.639	1.859	2.170
		WATER PRE. DROP	kPa	11	13	21	25	31
		EWT/LWT	°C	7/12	7/12	7/12	7/12	7/12
		HEATING	ROW	3	3	3	3	3
MIXING BOX	BACK RETURN	LOW ESP	0	0	0	0	0	
		NORMAL ESP	12	12	12	12	12	
		HIGH ESP	30	30	30	30	30	
		SUP-HIGH ESP	50	50	50	50	50	
		TYPE	DWDI,FC, CENTRIFUGEL GALVANIZED FAN					
QUANTITY	3	3	4	4	4			
COIL	HEATING	ROW	3	3	3	3	3	
		WATER FLOW	m³/h	1.140	1.305	1.639	1.859	2.170
		WATER PRE. DROP	kPa	11	13	21	25	31
		EWT/LWT	°C	60	60	60	60	60
		MAX WORKING PRESSURE	MPa	1.6	1.6	1.6	1.6	1.6

Remark: in above table, the power input (W) is for the whole units.

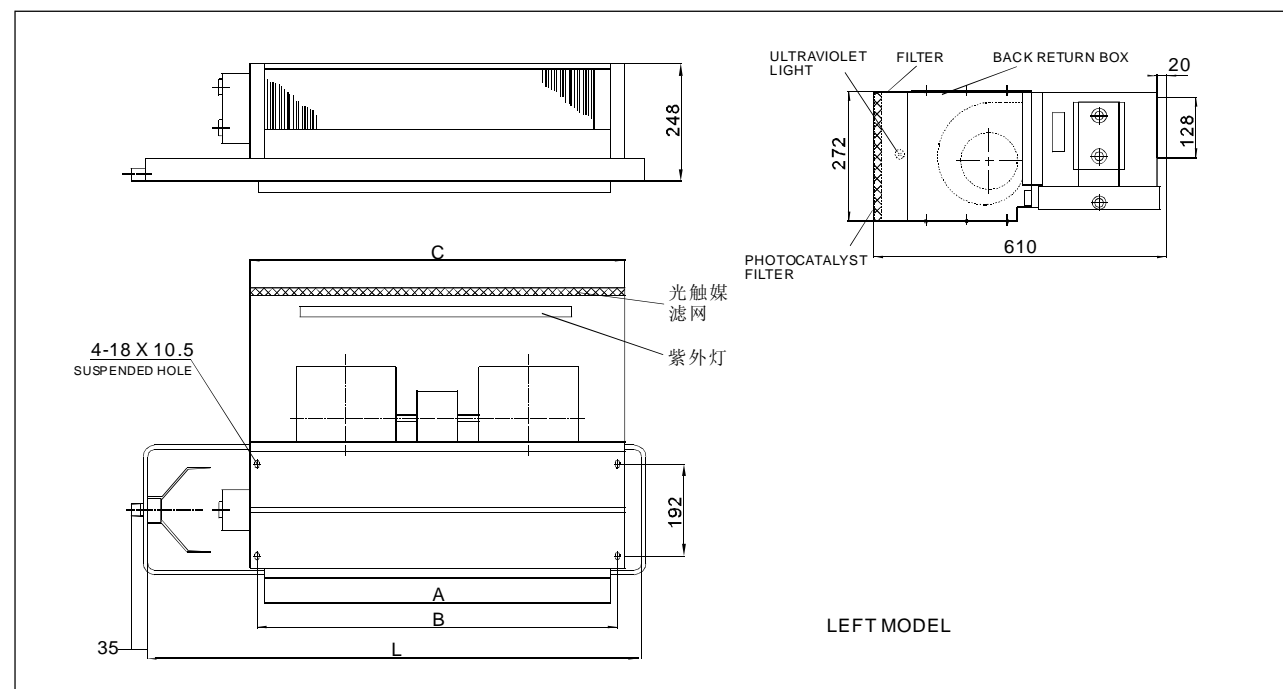
TRANSPORT DATA

MODEL		FP700WA*-3G*	FP800WA*-3G*	FP1000WA*-3G*	FP1200WA*-3G*	FP1400WA*-3G*		
TRANSPORT DATA (NO MIXING BOX)	PACKING SIZE	LENGTH	mm	1,575	1,725	1,825	1,935	2,035
		WIDTH	mm	640	640	640	640	640
		HEIGHT	mm	297	297	297	297	297
	TRANSPORT WEIGHT	kg	39	41	45	47	52	
FIXING SIZE	AIR RETURN INLET(C)	mm	1,245	1,395	1,495	1,605	1,705	
	AIR RETURN INLET(H)	mm	272	272	272	272	272	
	AIR SUPPLY OUTLET(A)	mm	1,183	1,333	1,433	1,543	1,643	
	AIR SUPPLY OUTLET(H)	mm	128	128	128	128	128	
	DISTANCE OF SUSPEND HOLDS(B)	mm	1,225	1,375	1,475	1,585	1,685	
	DISTANCE OF SUSPEND HOLDS(W)	mm	192	192	192	192	192	
	DIAMETER OF COOLING WATER PIPES	Inch	3/4" Inside taper pipe thread					
	DIAMETER OF DRAIN PIPES	Inch	3/4" outside taper pipe thread					

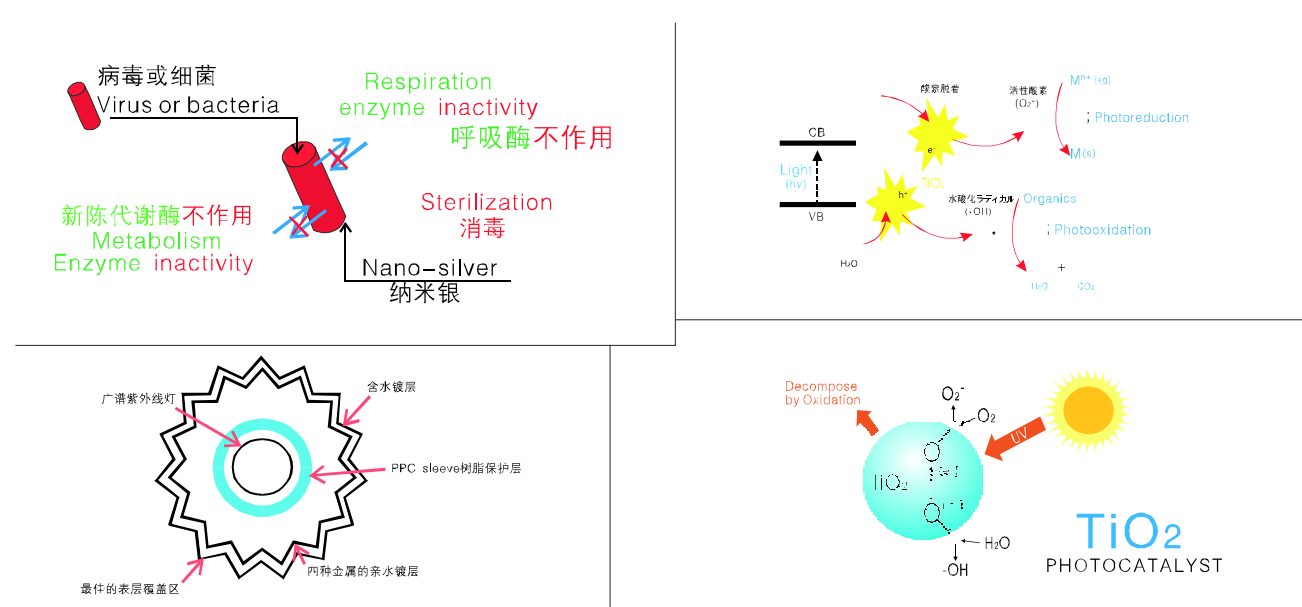


FP-WM FIGURE DIAGRAM

VERTICAL COIL PHOTOCATALYST TWO PIPES SYSTEM

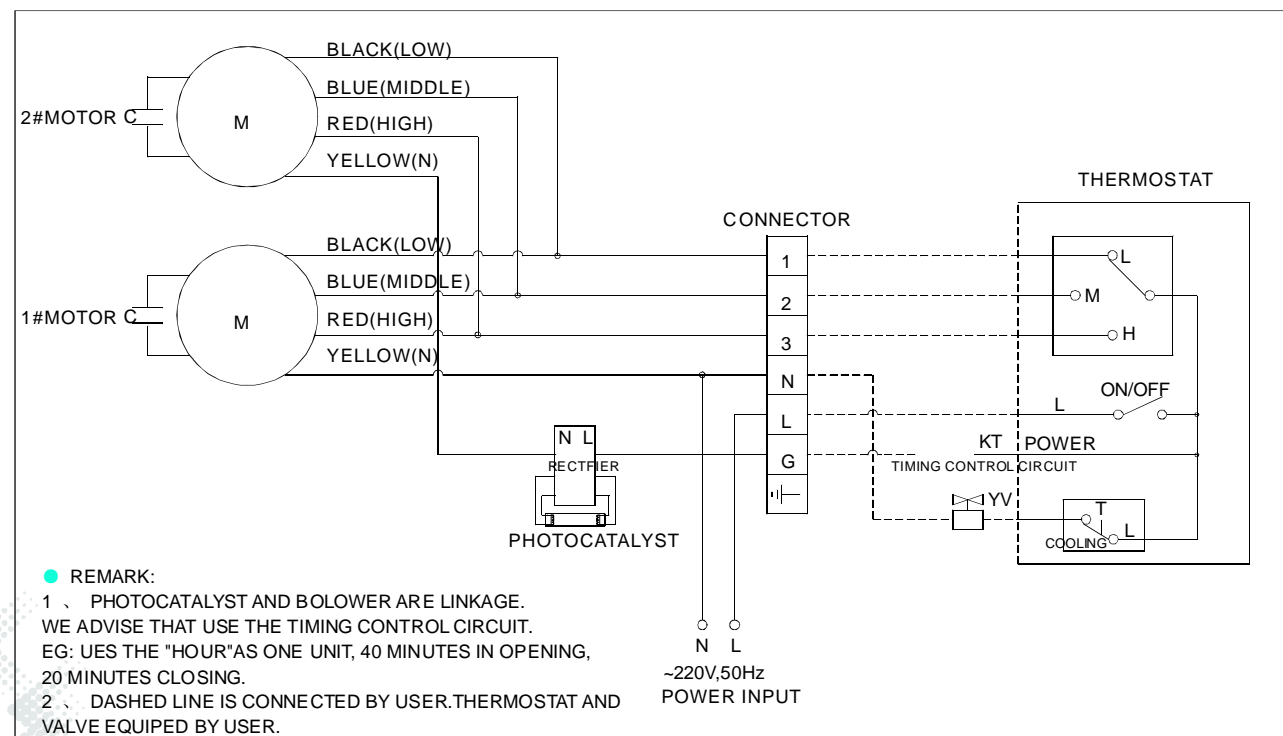


COBINATION TTERILIZATION TECHNOLOGY



CIRCUIT DIAGRAM OF FP-WA FCU

VERTICAL COIL PHOTOCATALYST TWO PIPES SYSTEM



光催化型：光催化剂的最大特点是强烈吸收光线中的紫外线后，内部电子被激发，形成超氧化物和羟基原子团，它超强的氧化能力，可以破坏细胞的细胞膜，凝固病毒的蛋白质，抑制病毒的活性，杀菌能力达到 99.997%。同时，光催化效应后生成的氢氧自由基可将有机物质和有害气体转化为水、二氧化碳和盐，从而达到净化环境的功效。HVAC 设备的蒸发器和冷凝器经多金属催化剂改性后，会同时增加超氧化杀菌能力（激活后形成超氧化物和羟基原子团）、自洁净能力（光催化效应后生成的氢氧自由基可将有机物质和有害气体转化为水、二氧化碳和盐，表面不留残留物，历久弥新）、亲水性能（改变冷凝液体和换热器翅片表面的接触角）。

常用的光催化半导体纳米粒子有 TiO_2 、 Fe_2O_3 、 CdS 、 ZnS 、 PbS 、 $PbSe$ 、 $ZnFe_2O_4$ 等。例如，将具有高活性的光催化半导体纳米粒子 TiO_2 附着在金属基材上，通过紫外光的照射可以还原其活性。 TiO_2 在强烈吸收光线中的紫外线后，内部电子被激发，所产生的氧化作用能完全杀灭细菌和病毒。

组合式矩阵杀菌单元：充分利用中央空调设备对空气进行集中处理的特性，将以往单独使用的各种除菌设备根据用户的需求进行组合，使其具有光谱杀菌的组合功能，对空气中存活的各种菌种进行集中捕捉和集中杀灭。在利用紫外线 - 臭氧生成灯泡进行离子化杀菌的同时，由多金属催化剂和宽光谱紫外线灯组成的矩阵单元，利用紫外线 - 臭氧生成灯泡，并在特定金属催化剂的作用下，生成低浓度的 O_3 、 H_2O_2 与 $H_2O_2^+$ 等多种净化作用的物质，通过神奇的反应过程，同步进行光催化型灭菌过程，全方位实现了灭菌排污的净化效果。