www.withair.cn

The Energy Solutions of Withair Chilled Water Fan Coil Units Catalogue



Take Control of Your Energy Future !

Withair offers a wide range of clean energy products and solutions to meet the needs of your projects.





Over 20 years of experience



Key parts are come from international first-class brands



Guaranteed support and spare parts



Support in design



Documentation for incentives



Two-year guarantee



Free training course

About Withair

Withair is the premium manufacturer in sustainable energy solutions supplying HVACR products & services for heating, cooling, hot water, indoor air quality, industrial refrigeration, and heat recovery that reflect today's demand for sustainable construction, comfortable indoor climate and industrial cooling & heating process application. Withair specialises in innovative custom highly-configurable products designed to meet the your needs. We insure products are designed for long life by using highest quality materials, for all controls, safety, and components we only use top world-wide recognized brands. All products are rigorously tested before leaving us, going through many stages of quality control before being shipped.

Withair® has highly effective professional team to service customers

Known for their professionalism and personal integrity, Withair's highly skilled engineers, technicians, electricians, stable manufacturing workers, strict quality controller, and quick-reaction & professional after-service staff utilize their multi-disciplinary expertise in the creation and production of every solution.

Close cooperation among Withair's design, production and service teams - who are located under one roof and linked by advanced computerized systems - enables the Company to supply the widest possible range of products - from single units to very large quantities - while assuring rapid delivery and competitive pricing.



Low energy consumption systems Use of clean energy Use of environmentally-friendly cooling gases ZERO direct CO2 emissions in the environment

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Product Outline Chilled Water Fan Coil Units - Minimum noise and space, Maximum options

The Withair® portfolio of fan coil unit, ventilation unit and air handling unit solutions is designed to make installations faster and easier, offers temperature and humidity control, heat recovery, deodorization, and air purification, and to maximize HVACR system performance. Using advanced technology, such as: brushless DC motor, single-zone, these systems quietly, temperature stability, reliably and efficiently deliver the comfort your building occupants need.

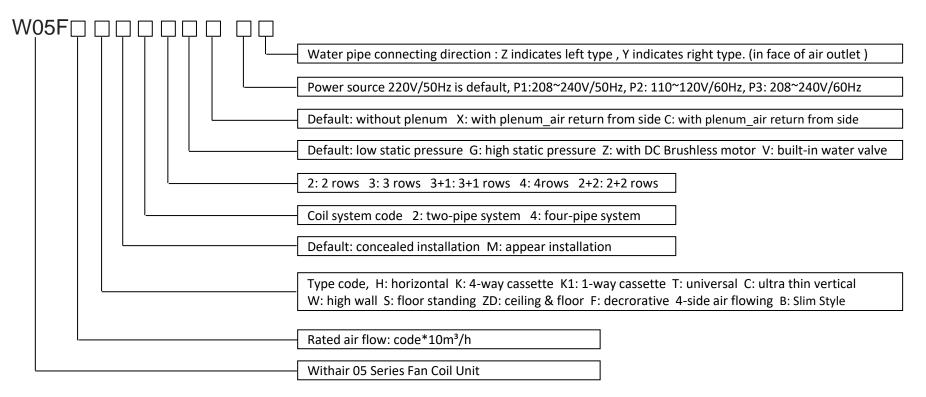
Withair® offers a full range of air side products and systems to meet your performance requirements. From 200cfm to the highly flexible 60,000cfm with numerous custom options, to a compeletely custom, energy efficient, environmentally responsible system, we have the optimal solution for commercial, industrial and process applications.

With everything from belt-drive to ducted units and unique stackable configurations – all in multiple models and capacities – Withair® fan coil units offer exceptional flexibility and availability. Today's building owners and engineers are concerned with issues such as indoor air quality and CFCs that can require high performance from all parts of the HVACR system. In addition, renovation has overtaken new construction in the fan coil units market—demanding a design that caters to renovation issues. Withair® fan coil units meets the standards of today's market and anticipate the needs of tomorrow's. These air terminal devices and heating products offer high-quality controls for efficient operation, and flexibility construction that can assure easy installation and service.

Model	CFM	200	300	400	500	600	800	1000	1200	1400	1600	1800	2000	2400	2800	DC motor(0~10V)	DC motor(3 speed)
Туре	m ³ /h	340	510	<mark>68</mark> 0	850	1020	1360	1700	2040	2380	2720	3000	3400	4080	4800	Op	tional
	standard type	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark						•	
Concealed type	slim type		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark									•	
	high static pressure						\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark			
Universal Type	standard type		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark						•	
Universar Type	ultrathin vertical type	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark										•	
High wall type	standard type	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark										
r ngri wan type	valve inside type	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark										
Floor standing type	standard type							\checkmark	\checkmark	\checkmark	\checkmark				\checkmark		
Floor & ceiling type	standard type		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark							
Cassette type	one-way type	\checkmark	\checkmark	\checkmark	\checkmark												
Casselle lype	four-way type	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark					•	
Decrorative 4-side	air flowing type			\checkmark	\checkmark						\checkmark	\checkmark					•

Conversion of Units used in this Catalog

	Unit used in catalog	Conversion
Air volume	m³/h	1 m3/h =0.59CFM
Cooling/heating capacity	W	1 W = 3.413 Btu/h
Water flow	m³/h	1 m3/h = 4.40GPM
Water pressure drop	kPa	1 kPa = 0.3345 ftWG
External static pressure	Pa	1 Pa = 0.004 inWG
Air/water temperature	C°	°F = (9 / 5)x°C +32



TH:Total Heat

SH:Sensible Heat

Testing Conditions

Nominal cooling conditions: Indoor air temperature: 27°C/19.5°C DB/WB Water temperature: 7°C/12°C, at maximum speed

Nominal cooling conditions: Indoor air temperature: 21°C/15°C DB/WB Water temperature: 6°C, at maximum speed

Chilled Water Concealed Fan Coil Unit	High Static Pressure Horizontal Ducted Fan Coil Unit	Four-way Cassette Type Fan Coil Unit
	255 Withair Withair Withair	
Universal Type & Ultra-thin Vertical Type Fan Coil Unit	High Wall Type Fan Coil Unit	Floor Standing Type Fan Coil Unit
Floor & Ceiling Type Fan Coil Unit	Kitchen and Bathroom Ducted & Concealed Fan Coil	Vertical High Rise Fan Coil Unit

Chilled Water Fan Coil Units

---- Product Description -----

Withair® Fan Coil Unit is designed and manufacturted on the base of advanced technology, and utilizes qualified galvanized iron as structre material. Due to its supper thin design, it has such advantages:beautiful outer looking, space saving, easy instalation,etc. and the most obious advantage is that it can decrease the outlet air temperature difference as low as possible to make the room more comfortable,as well as doesnt't reduce the cooling capacity output. for the large air flow volume design, it can increase room ventilation frequency, supply more fresh air, and balance room temperature distribution. benefiting from adopting of advanced material and technology, it can be widely applied in market, hospital, office building, hotel, etc.

Withair® Fan Coil Unit contains ceiling exposed type, ceiling concealed type, wall type, cassette type, free standing type, universal type. and the air volume varies from 150CFM~2800CFM.the standard voltage supply is 220V/1P/50Hz, and 110V/1P/60Hz and 220V/1P/60Hz are also available. Including 6 series: ceiling concealed/exposed units, floor standing units, ceiling cassette unit and so on.

Meeting customer's various needs, presenting attractive appearance and realizing convenient installation.

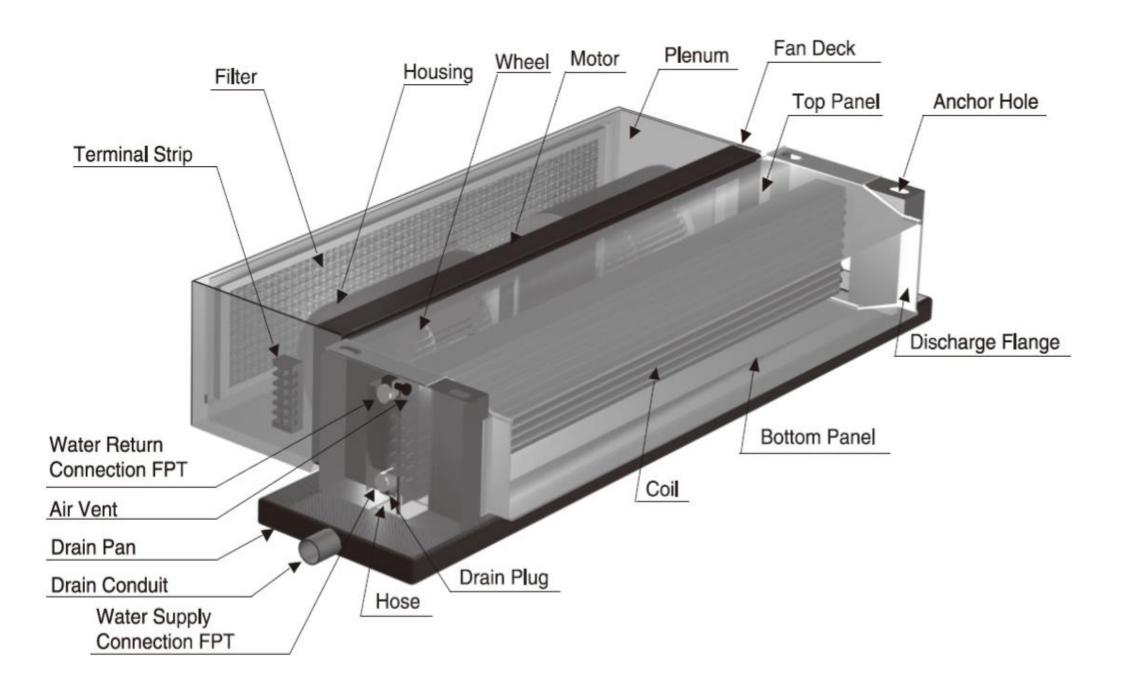
----- The Key Advantages Include -----

- Compact, light-weight design saves space.
- Aesthetic design with high-quality galvanized steel.
- Full faced, insulated plenum with back and bottom return.
- Optional: Electric heater, AC motor and DC brushless motor.
- Available in two-pipe, three-pipe and four-pipe configurations.
- Coil design provides good air mixing for high thermal efficiency.
- Hydrophilic aluminum foil improves efficiency and resists corrosion.
- High-efficiency centrifugal fan assembly minimizes virbration and noise.
- Highly efficient motor and centrifugal fan ensures low-noise performance.
- Filter is made of aluminum net and aluminum frame, easy to clean and replace.
- Flexible design Exposed or concealed cabinet; 2-pipe or 4-pipe system; 2,3,4 & 6 rows.
- Bottom/back air return type plenum box and left/right hand chiller water connetion for optional.
- Optimized performance chilled-water coil for cooling, hot-water or electric coil for heating.
- Multiple ESP avaiable: stand units come with ESP12Pa, customized 30/50/100Pa, able to suit different applications.
- Proprietary symmetric design allows pipe entrance to be installed on either side of the unit to adapt to building conditions.
- Frame and structure: panels and frame are made of galvanized steel, properly punched for fixing both accessories and the unit itself.
- Drain pan with integral thermal insulation and professional welding skill enable all condensation water to be collected and prevent leakage.
- The fan decks are composed of double suction centrifugal fans with aluminum impellers and 3-speed fan motors. Each fan motor assembly is dynamically balanced.

• The coils are made of seamless tubes expanded into aluminum fins in continuous block. The connections have brass headers with female fittings and provided with easily accessible vent and drainage valve.

• Choice of controls – Thermostats can be analog, digital display, or programmable; unit-mount or remote-mount. Controls can be interfaced with a building automation system, or operate on a stand-alone basis.

- Unit Construction ——



—— Performance Data ——

Concealed Horizontal T	ma Ean Cail Unit	Itwo nino ovotom	with 2 rows corios)
	ype ran con onic	(IWO-pipe System	

Conocale	nocaled honzontal type i an oon onit (two pipe system with o rows series)											
	Model		W05F-	34H2-3	51H2-3	68H2-3	85H2-3	102H2-3	136H2-3	170H2-3	204H2-3	238H2-3
F	Power sup	ply					AC 208~2	30V/1Ph/50Hz (6	0Hz as option)			
		High speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380
Air flo	w	Middle speed	m³/h	270	380	515	660	765	1040	1280	1550	1800
		Low speed	m ³ /h	190	260	340	430	530	710	860	1050	1280
St	tatic press	sure	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)
	TH	High speed	W	2150	3200	4000	5000	5800	8000	9500	11300	12800
	SH	nigh speed	W	1530	2230	2850	3530	4230	5790	6850	8110	9140
Cooling	TH	Middle speed	W	1710	2510	3305	4090	4790	6660	7695	9153	10000
capacity			W	1210	1715	2320	2890	3345	4715	5470	6340	7165
	TH Low speed		W	1355	2000	2470	3000	3520	5150	5870	6820	7850
	SH	LOW Speed	W	980	1420	1735	2020	2500	3530	4075	4950	5580
Heating	Hiç	gh speed	W	3350	5050	6250	7900	9150	12500	15100	17800	20100
Heating capacity	Mid	dle speed	W	2650	3900	5100	6350	7400	10300	11950	14200	15500
Capacity	Lo	w speed	W	2100	3100	3850	4650	5450	8000	9100	10550	12150
Noise level	SH High speed Middle speed Low speed el High 12/30/50F out speed 12/30/50F		dB(A)	37/39/42	39/41/44	41/43/46	43/45/47	45/48/49	47/49/50	48/50/52	50/52/54	52/54/56
Power input	speed	12/30/50Pa	W	37/44/49	52/59/66	62/72/84	76/87/100	96/108/118	134/156/174	152/174/210	189/212/250	228/253/300
	Coil				Hic	gh efficient copr	per pipe to wea	r Hydrophilic alun	ninum coil; Work	king pressure 1.6	MPa	
	Fan				Cer	ntrifugal fan (for	ward curved ga	alvanized steel fai	n wheel); Galvar	nized steel fan ho	busing	
	Motor					AC	C motor; The m	notor insulation sy	/stem shall be Cl	lass E		
W	later flow	rate	m³/h	0.37	0.55	0.69	0.86	0.99	1.37	1.63	1.94	2.19
P	Pressure d	Jrop	kPa	16	22	18	29	22	27	35	37	38
Coil con	nection &	k drain pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Linit	Without a	air return box		624×465×238	814×465×238	864×465×238	944×465×238	1044×465×238	1424×465×238	1474×465×238	1674×465×238	1824×465×238
Unit dimension	Air returr	n from side	L×W×H (mm)	624×510×238	814×510×238	864×510×238	944×510×238	1044×510×238	1424×510×238	1474×510×238	1674×510×238	1824×510×238
	Air returr	n from bottom	(1111)	624×492×256	814×492×256	864×492×256	944×492×256	1044×492×256	1424×492×256	1474×492×256	1674×492×256	1824×492×256
Weight (with	out plelur	m / with plelum)) kg	12/14.6	14/16.8	15/18.5	18/21.2	19/23.2	28/32.1	32/36.5	35/39.7	37/42.4
4												

Notes:

1.Cooling condition: indoor DB=27°C(80.6°F), WB=19.5°C(67.1°F), EWT 7°C(44.6°F), temperature difference between EWT and LWT:5°C(41°F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C(69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C(140 $^{\circ}$ F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

6.3-Row= 3-row chilled water/hot water coil.

Model 68H2-4 W05F-34H2-4 51H2-4 85H2-4 102H2-4 136H2-4 170H2-4 204H2-4 238H2-4 Power supply AC 208~230V/1Ph/50Hz (60Hz as option) High speed m³/h 340 510 680 850 1020 1360 1700 2040 2380 Middle speed 270 Air flow m³/h 380 515 660 765 1040 1280 1550 1800 m³/h 190 260 340 430 530 710 860 1050 1280 Low speed Static pressure 12(30,50) 12(30,50) 12(30,50) 12(30,50) 12(30,50) 12(30,50) 12(30,50) 12(30,50) Ра 12(30,50)2350 3500 5500 TΗ W 4400 6400 8800 10450 12450 14100 High speed SH W 1650 2400 3100 3850 9900 4600 6300 7450 8800 W TΗ 1850 2750 3600 4450 5200 7250 9250 11000 10900 Coolina Middle speed SH capacity W 1300 1850 2500 3150 3650 5100 5950 7750 6900 1600 2150 2650 3250 8500 TΗ W 3800 5550 6350 7350 Low speed SH W 1050 1550 1900 2200 2700 3850 4400 5350 6050 High speed W 3700 8700 22100 5550 6900 10050 13750 16600 19600 Heating Middle speed W 2900 4250 5550 6900 8050 11250 13050 15500 16900 capacity 2250 3350 5900 W Low speed 4150 5000 8650 9850 11400 13100 41/43/46 43/45/47 47/49/50 48/50/52 Noise level High 12/30/50Pa dB(A) 37/39/42 39/41/44 45/48/49 50/52/54 52/54/56 speed 37/44/49 96/108/118 134/156/174 152/174/210 12/30/50Pa W 62/72/84 76/87/100 Power input 52/59/66 189/212/250 228/253/300 High efficient copper pipe to wear Hydrophilic aluminum coil; Working pressure 1.6MPa Coil Centrifugal fan (forward curved galvanized steel fan wheel); Galvanized steel fan housing Fan AC motor; The motor insulation system shall be Class E Motor m³/h Water flow rate 0.76 1.09 2.13 2.41 0.41 0.61 0.95 1.51 1.79 Pressure drop kPa 19 25 24 34 26 33 40 42 46 Coil connection & drain pipe 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" Inch Without air return box 624×465×238 814×465×238 864×465×238 944×465×238 1044×465×238 1424×465×238 1474×465×238 1674×465×238 1824×465×238 Unit LxWxH Air return from side 624×510×238 814×510×238 864×510×238 944×510×238 1044×510×238 1424×510×238 1474×510×238 1674×510×238 1824×510×238 dimension (mm)Air return from bottom 624×492×256 814×492×256 864×492×256 944×492×256 1044×492×256 1424×492×256 1474×492×256 1674×492×256 1824×492×256 Weight (without plelum / with plelum) kg 12/14.6 14/16.8 15/18.5 18/21.2 19/23.2 28/32.1 32/36.5 35/39.7 37/42.4

Concealed Horizontal Type Fan Coil Unit (two-pipe system with 4 rows series)

Notes:

1.Cooling condition: indoor DB=27℃(80.6°F), WB=19.5℃(67.1°F), EWT 7℃(44.6°F), temperature difference between EWT and LWT:5℃(41°F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C(69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C(140 $^{\circ}$ F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20 °C (68°F) air inlet dry bulb temperature.

6.4-Row= 4-row chilled water/hot water coil.

	Model		W05F-	34H4-(3+1)	51H4-(3+1)	68H4-(3+1)	85H4-(3+1)	102H4-(3+1)	136H4-(3+1)	170H4-(3+1)	204H4-(3+1)	238H4-(3+1)		
P	Power sup	ply					AC 208~2	30V/1Ph/50Hz (6	60Hz as option)					
		High speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380		
Air flo	W	Middle speed	m³/h	270	380	515	660	765	1040	1280	1550	1800		
		Low speed	m³/h	190	260	340	430	530	710	860	1050	1280		
St	tatic pres	sure	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)		
	TH	High speed	W	2150	3200	4000	5000	5800	8000	9500	11300	12800		
	SH	r light speed	W	1530	2230	2850	3530	4230	5790	6850	8110	9140		
Cooling	TH	Middle speed	W	1710	2510	3305	4090	4790	6660	7695	9153	10000		
capacity	acity SH		W	1210	1715	2320	2890	3345	4715	5470	6340	7165		
	TH	Low speed	W	1355	2000	2470	3000	3520	5150	5870	6820	7850		
	SH	Low speed	W	980	1420	1735	2020	2500	3530	4075	4950	5580		
Heating	Hię	gh speed	W	1350	2000	2500	3150	3650	5000	6000	7100	8000		
capacity	Mid	dle speed	W	1050	1550	2050	2550	2950	4100	4750	5650	6150		
oupdoity	Lo	w speed	W	850	1250	1550	1850	2150	3200	3600	2040 1550 1050 12(30,50) 12(30,50) 11300 8110 9153 6340 6820 4950 7100 5650 4200 50/52/54 189/212/250 6MPa nousing 1.94 0.61 37 16 3/4" 1674×465×238 1674×510×238	4850		
Noise level	Low speed High 12/30/50Pa		dB(A)	37/39/42	39/41/44	41/43/46	43/45/47	45/48/49	47/49/50	48/50/52	50/52/54	52/54/56		
Power input	speed	12/30/50Pa	W	37/44/49	52/59/66	62/72/84	76/87/100	96/108/118	134/156/174	152/174/210	189/212/250	228/253/300		
	Coil				High efficient copper pipe to wear Hydrophilic aluminum coil; Working pressure 1.6MPa									
	Fan				Cer	ntrifugal fan (for	rward curved ga	alvanized steel fa	n wheel); Galvar	nized steel fan ho	busing			
	Motor					A	C motor; The m	otor insulation sy	/stem shall be Cl	ass E				
Water flow	wrate	Cool	m³/h	0.37	0.55	0.69	0.86	0.99	1.37	1.63	1.94	2.19		
Water not	Wiale	Heat	m³/h	0.12	0.17	0.21	0.27	0.31	0.43	0.51	0.61	0.69		
Pressure	drop	Cool	kPa	16	22	18	29	22	27	35	37	38		
Flessule	ulop	Heat	kPa	5	8	8	10	10	12	15	16	18		
Coil con	nection &	drain pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
Lipit	Without a	air return box	L×W×H	624×465×238	814×465×238	864×465×238	944×465×238	1044×465×238	1424×465×238	1474×465×238	1674×465×238	1824×465×238		
Unit dimension	Air returr	n from side	(mm)	624×510×238	814×510×238	864×510×238	944×510×238	1044×510×238	1424×510×238	1474×510×238	1674×510×238	1824×510×238		
Ginension	Air returr	from bottom	(1111)	624×492×256	814×492×256	864×492×256	944×492×256	1044×492×256	1424×492×256	1474×492×256	1674×492×256	1824×492×256		
Weight (without plelum / with plelur			kg	12/14.6	14/16.8	15/18.5	18/21.2	19/23.2	28/32.1	32/36.5	35/39.7	37/42.4		

Concealed Horizontal Type Fan Coil Unit (four-pipe system with 3+1 rows series)

Notes:

1.Cooling condition: indoor DB=27 °C (80.6 °F), WB=19.5 °C (67.1 °F), EWT 7 °C (44.6 °F), temperature difference between EWT and LWT:5 °C (41 °F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5. Air flow rate is tested when FCU operates in a dry state and 20° C (68°F) air inlet dry bulb temperature.

6.4-Row= 3-row chilled water,1-row hot water coil.

	Model		W05F-	34H4-(2+2)	51H4-(2+2)	68H4-(2+2)	85H4-(2+2)	102H4-(2+2)	136H4-(2+2)	170H4-(2+2)	204H4-(2+2))	238H4-(2+2)
F	Power sup	ply					AC 208~2	30V/1Ph/50Hz (6	60Hz as option)			
		High speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380
Air flo	w	Middle speed	m³/h	270	380	515	660	765	1040	1280	1550	1800
		Low speed	m³/h	190	260	340	430	530	710	860	1050	1280
St	tatic pres	sure	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)
	TH	High speed	W	1550	2300	2900	3600	4200	5750	6850	8150	9200
	SH	nigh speed	W	1100	1650	2100	2600	3100	4250	5050	5950	6700
Cooling	TH	Middle speed	W	1250	1800	2400	2950	3450	4800	5550	6600	7200
capacity	SH	Middle Speed	W	900	1250	1700	2100	2450	3450	4000	4650	5250
	TH Low speed		W	1000	1450	1800	2150	2550	3700	4250	4900	5650
	SH Low speed		W	700	1050	1300	1500	1850	2600	3000	3650	4100
Heating	Hię	gh speed	W	2550	3800	4800	5950	6950	9500	11300	13450	15200
Heating capacity	Mid	dle speed	W	2050	2950	3950	4850	5700	7900	9150	10900	11900
oupdoity	Lo	w speed	W	1650	2400	2950	3550	4200	6100	7000	2040 1550 1050 12(30,50) 8150 5950 6600 4650 4900 3650 13450 10900 8100 50/52/54 189/212/250 MPa using 1.4 1.16 26.5 23 3/4" 1674×465×238 1674×510×238	9300
Noise level	High	12/30/50Pa	dB(A)	37/39/41	39/41/44	41/43/46	43/45/47	45/48/48	47/49/50	48/50/52	50/52/54	52/54/56
Power input	speed	12/30/50Pa	W	37/44/49	52/59/66	62/72/84	76/87/100	96/108/118	134/156/174	152/174/210	189/212/250	228/253/300
	Coil				Hię	gh efficient cop	per pipe to wea	r Hydrophilic alur	minum coil; Worl	king pressure 1.6	6MPa	
	Fan				Cer	ntrifugal fan (for	ward curved ga	Ivanized steel fa	n wheel); Galvar	nized steel fan ho	ousing	
	Motor					A	C motor; The m	otor insulation sy	/stem shall be Cl	ass E		
Water flow	wrate	Cool	m³/h	0.27	0.4	0.5	0.62	0.72	0.98	1.18	1.4	1.57
Water not	wiale	Heat	m³/h	0.23	0.32	0.4	0.51	0.59	0.82	0.96	1.16	1.31
Pressure	drop	Cool	kPa	10.5	15	13	19.5	16	19.5	25	26.5	28
Flessule	uop	Heat	kPa	9	13	11	17	14	17	22	23	25
Coil con	Coil connection & drain pipe Inch 3/4" <						3/4"					
Unit	Without	air return box	L×W×H	624×465×238	814×465×238	864×465×238	944×465×238	1044×465×238	1424×465×238	1474×465×238	1674×465×238	1824×465×238
dimension	Air returr	n from side	(mm)	624×510×238	814×510×238	864×510×238	944×510×238	1044×510×238	1424×510×238	1474×510×238	1674×510×238	1824×510×238
GITTETISIOT	Air returr	from bottom	(1111)	624×492×256	814×492×256	864×492×256	944×492×256	1044×492×256	1424×492×256	1474×492×256	1674×492×256	1824×492×256
Weight (with	out plelur	n / with plelum)	kg	12/14.6	14/16.8	15/18.5	18/21.2	19/23.2	28/32.1	32/36.5	35/39.7	37/42.4

Concealed Horizontal Type Fan Coil Unit (four-pipe system with 2+2 rows series)

Notes:

1.Cooling condition: indoor DB=27 °C (80.6 °F), WB=19.5 °C (67.1 °F), EWT 7 °C (44.6 °F), temperature difference between EWT and LWT:5 °C (41 °F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5. Air flow rate is tested when FCU operates in a dry state and 20° C (68°F) air inlet dry bulb temperature.

6.4-Row= 2-row chilled water,2-row hot water coil.

	Model		W05F-	34H2-3Z	51H2-3Z	68H2-3Z	85H2-3Z	102H2-3Z	136H2-3Z	170H2-3Z	204H2-3Z	238H2-3Z
F	Power sup	ply					DC 208~2	30V/1Ph/50Hz (6	60Hz as option)			
		High speed	m ³ /h	340	510	680	850	1020	1360	1700	2040	2380
Air flo	wc	Middle speed	m ³ /h	270	380	515	660	765	1040	1280	1550	1800
		Low speed	m ³ /h	190	260	340	430	530	710	860	1050	1280
S	static pres	sure	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)
	TH High speed		W	2150	3200	4000	5000	5800	8000	9500	11300	12800
	SH	r light speed	W	1530	2230	2850	3530	4230	5790	6850	8110	9140
Cooling			W	1710	2510	3305	4090	4790	6660	7695	9153	10000
capacity			W	1210	1715	2320	2890	3345	4715	5470	6340	7165
	ТН		W	1355	2000	2470	3000	3520	5150	5870	6820	7850
	SH	Low speed	W	980	1420	1735	2020	2500	3530	4075	4950	5580
Lleating	Hię	gh speed	W	3350	5050	6250	7900	9150	12500	15100	17800	20100
Heating capacity	Mid	dle speed	W	2650	3900	5100	6350	7400	10300	11950	14200	15500
capacity	Lo	w speed	W	2100	3100	3850	4650	5450	8000	9100	10550	12150
Noise level	Low speed		dB(A)	34/36/39	36/38/41	38/40/43	40/42/44	42/45/46	44/46/48	45/47/49	47/49/51	50/52/54
Power input	speed	12/30/50Pa	W	21/25/28	30/34/38	36/42/54	44/52/64	56/63/73	78/91/108	89/102/134	111/124/147	134/148/176
	Coil				Hię	gh efficient cop	per pipe to wea	r Hydrophilic alur	minum coil; Worl	king pressure 1.6	6MPa	
	Fan				Cer	ntrifugal fan (for	ward curved ga	alvanized steel fa	n wheel); Galvar	nized steel fan ho	ousing	
	Motor					DC Bru	shless Motor; T	he motor insulat	ion system shall	be Class E		
V	Vater flow	rate	m³/h	0.37	0.55	0.69	0.86	0.99	1.37	1.63	1.94	2.19
P	Pressure o	Irop	kPa	16	22	18	29	22	27	35	37	38
Coil con	nnection &	drain pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Linit	Without a	air return box		624×465×238	814×465×238	864×465×238	944×465×238	1044×465×238	1424×465×238	1474×465×238	1674×465×238	1824×465×238
Unit dimension	Air returr	n from side	L×W×H (mm)	624×510×238	814×510×238	864×510×238	944×510×238	1044×510×238	1424×510×238	1474×510×238	1674×510×238	1824×510×238
unicholoff	Air returr	from bottom	(((((((((((((((((((((((((((((((((((((((624×492×256	814×492×256	864×492×256	944×492×256	1044×492×256	1424×492×256	1474×492×256	1674×492×256	1824×492×256
Weight (with	nout plelur	n / with plelum)	kg	12/14.6	14/16.8	15/18.5	18/21.2	19/23.2	28/32.1	32/36.5	35/39.7	37/42.4
				-								

Notes:

1.Cooling condition: indoor DB=27 °C (80.6 °F), WB=19.5 °C (67.1 °F), EWT 7 °C (44.6 °F), temperature difference between EWT and LWT:5 °C (41 °F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C(69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C(140 $^{\circ}$ F), the same amount of water flow as with cooling.

3.Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

6.3-Row= 3-row chilled water/hot water coil.

Concealed	d Horiz	ontal Type F	an Coil	Unit with D	C Brushless	s Motor (two	-pipe systen	n with 4 rows	s series)			
	Model		W05F-	34H2-4Z	51H2-4Z	68H2-4Z	85H2-4Z	102H2-4Z	136H2-4Z	170H2-4Z	204H2-4Z	238H2-4Z
P	ower sup	oply					DC 208~2	30V/1Ph/50Hz (6	60Hz as option)			
		High speed	m ³ /h	340	510	680	850	1020	1360	1700	2040	2380
Air flo	w	Middle speed	m ³ /h	270	380	515	660	765	1040	1280	1550	1800
		Low speed	m³/h	190	260	340	430	530	710	860	1050	1280
St	atic pres	sure	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)
	TH	High speed	W	2350	3500	4400	5500	6400	8800	10450	12450	14100
	SH	r light speed	W	1650	2400	3100	3850	4600	6300	7450	8800	9900
Cooling	TH	Middle speed	W	1850	2750	3600	4450	5200	7250	9250	11000	10900
capacity	SH	Midule Speed	W	1300	1850	2500	3150	3650	5100	5950	6900	7750
	TH	Low speed	W	1600	2150	2650	3250	3800	5550	6350	7350	8500
	SH	Low speed	W	1050	1550	1900	2200	2700	3850	4400	5350	6050
Heating	Hię	gh speed	W	3700	5550	6900	8700	10050	13750	16600	19600	22100
Heating capacity	Mid	dle speed	W	2900	4250	5550	6900	8050	11250	13050	15500	16900
oupdoity	Lo	w speed	W	2250	3350	4150	5000	5900	8650	9850	11400	13100
Noise level	High	12/30/50Pa	dB(A)	34/36/39	36/38/41	38/40/43	40/42/44	42/45/46	44/46/48	45/47/49	47/49/51	50/52/54

00 /54 12/30/50Pa 85/100/118 speed W 23/27/30 33/37/41 39/46/59 48/57/70 61/69/80 97/112/147 122/136/161 147/162/193 Power input High efficient copper pipe to wear Hydrophilic aluminum coil; Working pressure 1.6MPa Coil Centrifugal fan (forward curved galvanized steel fan wheel); Galvanized steel fan housing Fan DC Brushless Motor; The motor insulation system shall be Class E Motor m³/h Water flow rate 0.76 2.13 0.41 0.61 0.95 1.09 1.51 1.79 2.41 Pressure drop kPa 19 25 24 34 26 33 40 42 46 Coil connection & drain pipe 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" Inch Without air return box 624×465×238 814×465×238 864×465×238 944×465×238 1044×465×238 1424×465×238 1474×465×238 1674×465×238 1824×465×238 Unit LxWxH Air return from side 624×510×238 814×510×238 864×510×238 944×510×238 1044×510×238 1424×510×238 1474×510×238 1674×510×238 1824×510×238 dimension (mm)Air return from bottom 624×492×256 814×492×256 864×492×256 944×492×256 1044×492×256 1424×492×256 1474×492×256 1674×492×256 1824×492×256 Weight (without plelum / with plelum) kg 12/14.6 14/16.8 15/18.5 18/21.2 19/23.2 28/32.1 32/36.5 35/39.7 37/42.4

Notes:

1.Cooling condition: indoor DB=27°C(80.6°F), WB=19.5°C(67.1°F), EWT 7°C(44.6°F), temperature difference between EWT and LWT:5°C(41°F).

2.Heating condition: Indoor DB=21°C (69.8°F), entering water temperature 60°C (140°F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5. Air flow rate is tested when FCU operates in a dry state and 20° (68°F) air inlet dry bulb temperature.

6.4-Row= 4-row chilled water/hot water coil.

7.All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications.

	Model		W05F-	34H4-(3+1)Z	51H4-(3+1)Z	68H4-(3+1)Z	85H4-(3+1)Z	102H4-(3+1)Z	136H4-(3+1)Z	170H4-(3+1)Z	204H4-(3+1)Z	238H4-(3+1)Z		
F	Power sup	oply					DC 208~2	30V/1Ph/50Hz (6	60Hz as option)					
		High speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380		
Air flo	W	Middle speed	m³/h	270	380	515	660	765	1040	1280	1550	1800		
		Low speed	m³/h	190	260	340	430	530	710	860	1050	1280		
St	tatic pres	sure	Ра	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)		
	TH High speed		W	2150	3200	4000	5000	5800	8000	9500	11300	12800		
	SH	r light speed	W	1530	2230	2850	3530	4230	5790	6850	8110	9140		
Cooling	TH	Middle speed	W	1710	2510	3305	4090	4790	6660	7695	9153	10000		
capacity	acity SH		W	1210	1715	2320	2890	3345	4715	5470	6340	7165		
	TH	Low speed	W	1355	2000	2470	3000	3520	5150	5870	6820	7850		
	SH	Low speed	W	980	1420	1735	2020	2500	3530	4075	4950	5580		
Heating	Hię	gh speed	W	1350	2000	2500	3150	3650	5000	6000	7100	8000		
capacity	Mid	dle speed	W	1050	1550	2050	2550	2950	4100	4750	5650	6150		
oupdoily	Lo	w speed	W	850	1250	1550	1850	2150	3200	3600	4200	4850		
Noise level	Hię	gh speed	dB(A)	34/36/39	36/38/41	38/40/43	40/42/44	42/45/46	44/46/48	45/47/49	47/49/51	50/52/54		
Power input	Hię	gh speed	W	23/27/30	33/37/41	39/46/59	48/57/70	61/69/80	85/100/118	97/112/147	122/136/161	147/162/193		
	Coil				High efficient copper pipe to wear Hydrophilic aluminum coil; Working pressure 1.6MPa									
	Fan				Cer	ntrifugal fan (foi	rward curved ga	alvanized steel fa	n wheel); Galvar	nized steel fan ho	busing			
	Motor					DC Bru	shless Motor; 1	he motor insulat	ion system shall	be Class E				
Water flow	wrata	Cool	m³/h	0.37	0.55	0.69	0.86	0.99	1.37	1.63	1.94	2.19		
Water not	wrate	Heat	m³/h	0.12	0.17	0.21	0.27	0.31	0.43	0.51	0.61	0.69		
Pressure	dron	Cool	kPa	16	22	18	29	22	27	35	37	38		
Flessule	ulop	Heat	kPa	5	8	8	10	10	12	15	16	18		
Coil con	nection &	drain pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
Unit	Without a	air return box	L×W×H	624×465×238	814×465×238	864×465×238	944×465×238	1044×465×238	1424×465×238	1474×465×238	1674×465×238	1824×465×238		
dimension	Air returr	n from side	(mm)	624×510×238	814×510×238	864×510×238	944×510×238	1044×510×238	1424×510×238	1474×510×238	1674×510×238	1824×510×238		
amension	Air returr	n from bottom	()	624×492×256	814×492×256	864×492×256	944×492×256	1044×492×256	1424×492×256	1474×492×256	1674×492×256	1824×492×256		
Weight (with	out plelur	n / with plelum)	kg	12/14.6	14/16.8	15/18.5	18/21.2	19/23.2	28/32.1	32/36.5	35/39.7	37/42.4		

Concealed Horizontal Type Fan Coil Unit with DC Brushless Motor (four-pipe system with 3+1 rows series)

Notes:

1.Cooling condition: indoor DB=27 °C (80.6°F), WB=19.5°C (67.1°F), EWT 7°C (44.6°F), temperature difference between EWT and LWT:5°C (41°F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

6.4-Row= 3-row chilled water,1-row hot water coil.

	Model		W05F-	34H4-(2+2)Z	51H4-(2+2)Z	68H4-(2+2)Z	85H4-(2+2)Z	102H2-(2+2)Z	136H4-(2+2)Z	170H4-(2+2)Z	204H4-(2+2)Z	238H4-(2+2)Z		
F	Power sup	oply					DC 208~2	30V/1Ph/50Hz (6	60Hz as option)					
		High speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380		
Air flo	w	Middle speed	m³/h	270	380	515	660	765	1040	1280	1550	1800		
		Low speed	m³/h	190	260	340	430	530	710	860	1050	1280		
S	tatic pres	sure	Ра	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)		
	TH	High speed	W	1550	2300	2900	3600	4200	5750	6850	8150	9200		
	SH	r light speed	W	1100	1650	2100	2600	3100	4250	5050	5950	6700		
Cooling	TH	Middle speed	W	1250	1800	2400	2950	3450	4800	5550	6600	7200		
capacity	SH	wildule speed	W	900	1250	1700	2100	2450	3450	4000	4650	5250		
	TH I ow speed		W	1000	1450	1800	2150	2550	3700	4250	4900	5650		
	SH Low speed		W	700	1050	1300	1500	1850	2600	3000	3650	4100		
Heating	Hię	gh speed	W	2550	3800	4800	5950	6950	9500	11300	13450	15200		
Heating capacity	Mid	dle speed	W	2050	2950	3950	4850	5700	7900	9150	10900	11900		
capacity	Lo	w speed	W	1650	2400	2950	3550	4200	6100	7000	8100	9300		
Noise level	Hiệ	gh speed	dB(A)	34/36/39	36/38/41	38/40/43	40/42/44	42/45/46	44/46/48	45/47/49	47/49/51	50/52/54		
Power input	Hi	gh speed	W	23/27/30								147/162/193		
	Coil				High efficient copper pipe to wear Hydrophilic aluminum coil; Working pressure 1.6MPa									
	Fan				Cer	ntrifugal fan (for	ward curved ga	alvanized steel fa	n wheel); Galvar	nized steel fan ho	busing			
	Motor					DC Bru	shless Motor; T	he motor insulat	ion system shall	be Class E				
Water flor	w rate	Cool	m³/h	0.27	0.4	0.5	0.62	0.72	0.98	1.18	1.4	1.57		
water no	wiale	Heat	m³/h	0.23	0.32	0.4	0.51	0.59	0.82	0.96	1.16	1.31		
Pressure	drop	Cool	kPa	10.5	15	13	19.5	16	19.5	25	26.5	28		
Flessule	ulop	Heat	kPa	9	13	11	17	14	17	22	23	25		
Coil con	nection &	drain pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
Linit	Without	air return box	L×W×H	624×465×238	814×465×238	864×465×238	944×465×238	1044×465×238	1424×465×238	1474×465×238	1674×465×238	1824×465×238		
Unit dimension	Air returr	n from side	LXVVXH (mm)	624×510×238	814×510×238	864×510×238	944×510×238	1044×510×238	1424×510×238	1474×510×238	1674×510×238	1824×510×238		
GITTETISIOT	Air returr	n from bottom	(1111)	624×492×256	814×492×256	864×492×256	944×492×256	1044×492×256	1424×492×256	1474×492×256	1674×492×256	1824×492×256		
Weight (with	out plelur	m / with plelum)	kg	12/14.6	14/16.8	15/18.5	18/21.2	19/23.2	28/32.1	32/36.5	35/39.7	37/42.4		

Concealed Horizontal Type Fan Coil Unit with DC Brushless Motor (four-pipe system with 2+2 rows series)

Notes:

1.Cooling condition: indoor DB=27 °C (80.6 °F), WB=19.5 °C (67.1 °F), EWT 7 °C (44.6 °F), temperature difference between EWT and LWT:5 °C (41 °F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

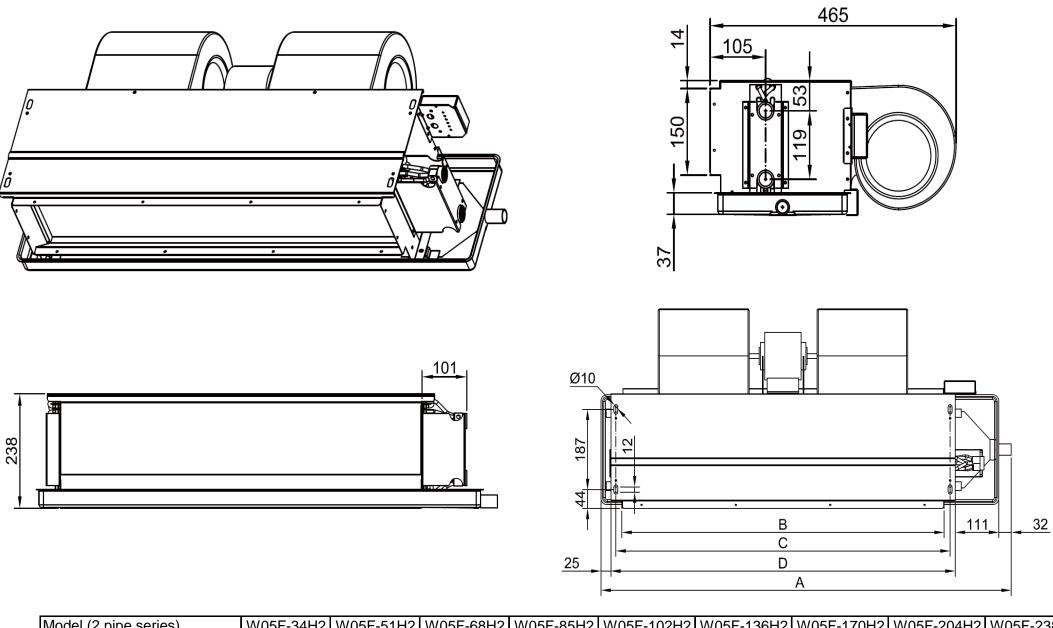
3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

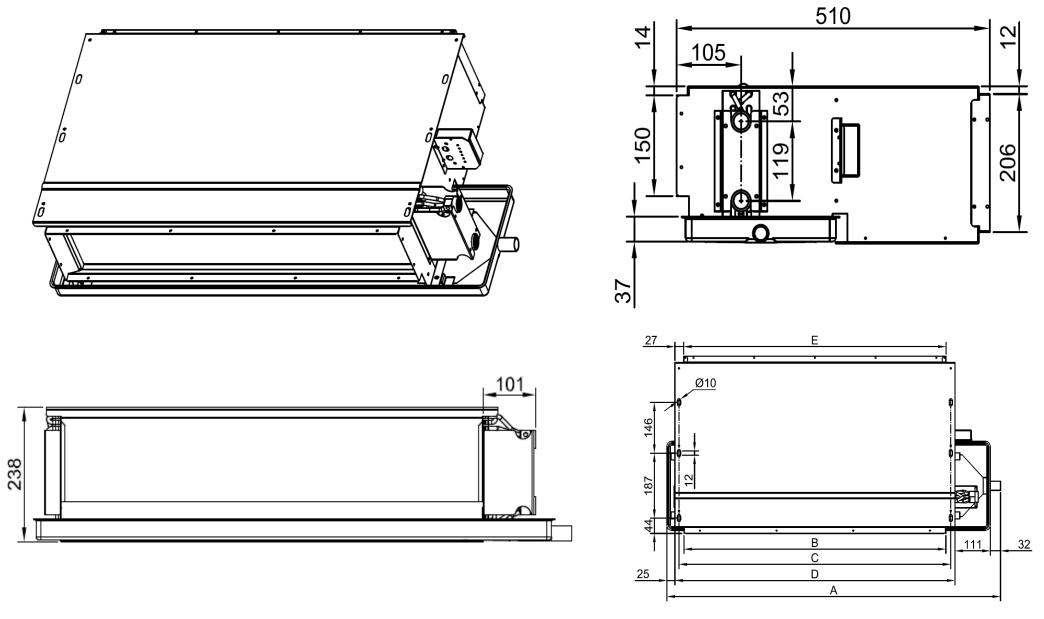
6.4-Row= 2-row chilled water,2-row hot water coil.

- Installation Dimension (Without plenum) ——



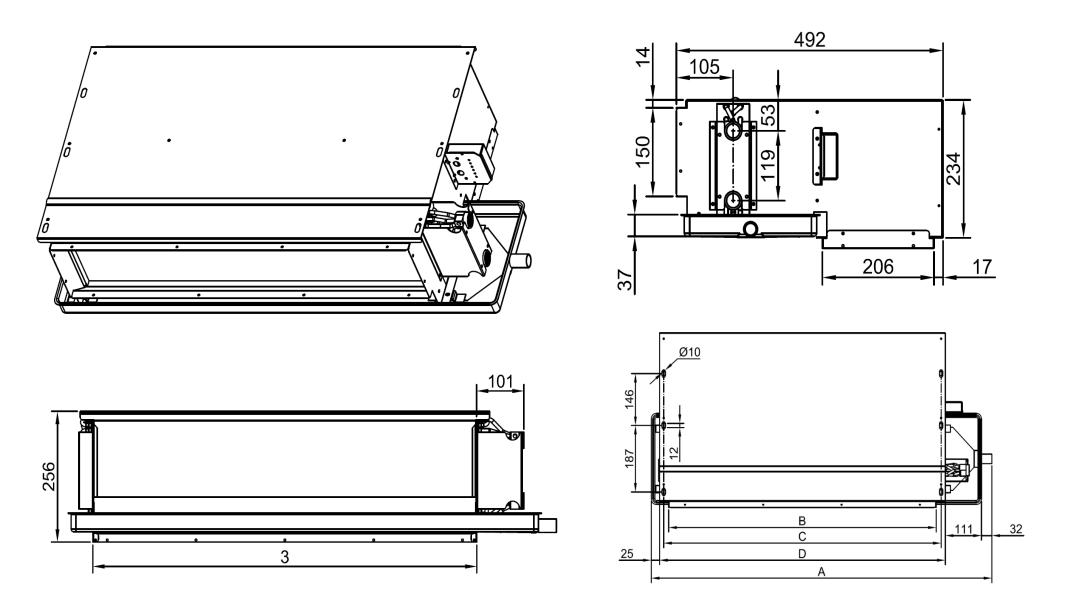
Model (2 pipe series)		W05F-34H2	W05F-51H2	W05F-68H2	W05F-85H2	W05F-102H2	W05F-136H2	W05F-170H2	W05F-204H2	W05F-238H2
Length of FCU	А	624	814	864	944	1044	1424	1474	1674	1824
Length of air outlet	В	400	590	640	720	820	1200	1250	1450	1600
Length of mounting	С	430	620	670	750	850	1230	1280	1480	1630
Length of body	D	456	646	696	776	876	1256	1306	1506	1656

- Installation Dimension (With plenum_air return from side) ——



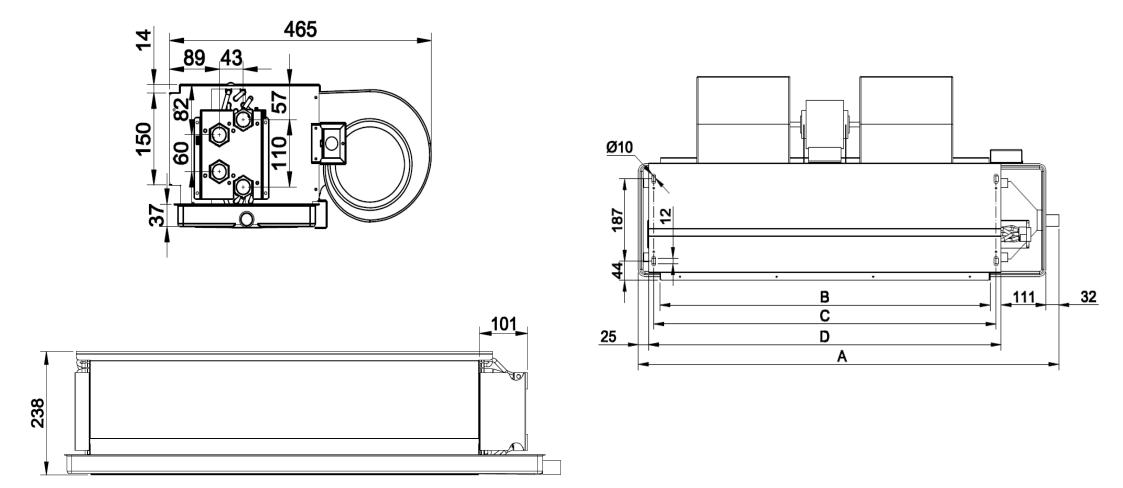
Model (2 pipe series)		W05F-34H2	W05F-51H2	W05F-68H2	W05F-85H2	W05F-102H2	W05F-136H2	W05F-170H2	W05F-204H2	W05F-238H2
Length of FCU	A	624	814	864	944	1044	1424	1474	1674	1824
Length of air outlet	В	400	590	640	720	820	1200	1250	1450	1600
Length of mounting	С	430	620	670	750	850	1230	1280	1480	1630
Length of body	D	456	646	696	776	876	1256	1306	1506	1656
Length of air return	<u> </u>	491	681	731	811	821	1201	1251	1451	1601
										40

- Installation Dimension (With plenum_air return from bottom) ——

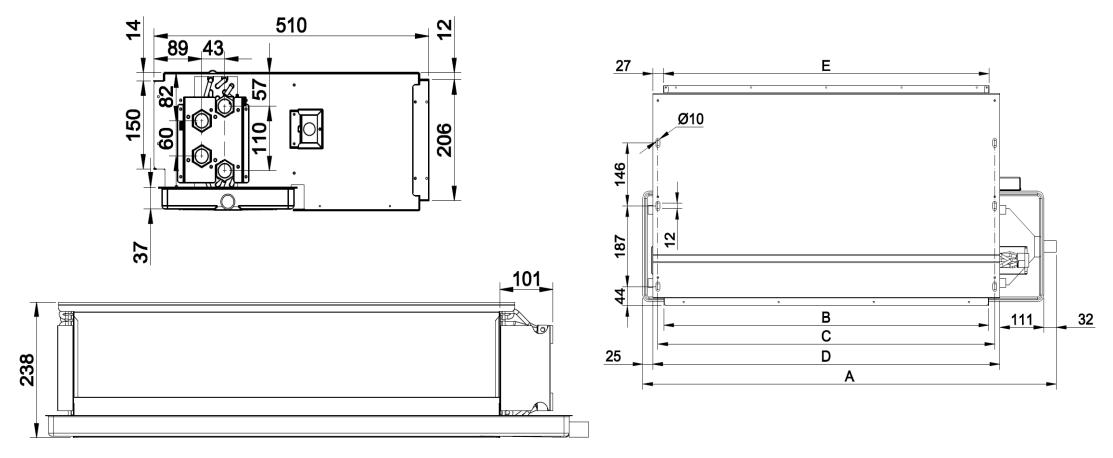


Model (2 pipe series)		W05F-34H2	W05F-51H2	W05F-68H2	W05F-85H2	W05F-102H2	W05F-136H2	W05F-170H2	W05F-204H2	W05F-238H2
Length of FCU	A	624	814	864	944	1044	1424	1474	1674	1824
Length of air outlet	В	400	590	640	720	820	1200	1250	1450	1600
Length of mounting	С	430	620	670	750	850	1230	1280	1480	1630
Length of body	D	456	646	696	776	876	1256	1306	1506	1656
Length of air return	<u> </u>	491	681	731	811	821	1201	1251	1451	1601
										40

- Installation Dimension (Without plenum) ——

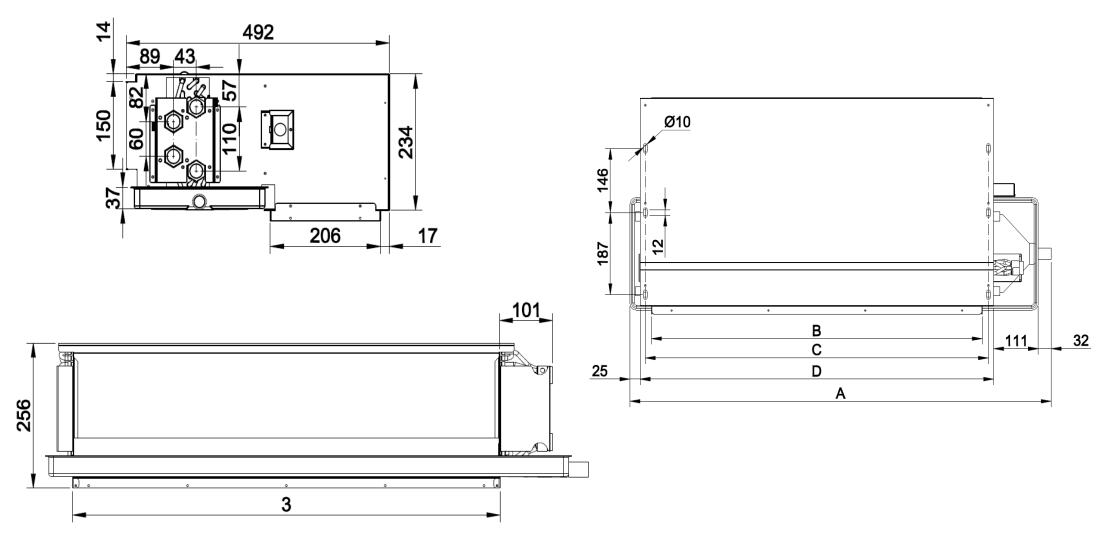


Model (4 pipe series)		W05F-34H4	W05F-51H4	W05F-68H4	W05F-85H4	W05F-102H4	W05F-136H4	W05F-170H4	W05F-204H4	W05F-238H4
Length of FCU	A	624	814	864	944	1044	1424	1474	1674	1824
Length of air outlet	В	400	590	640	720	820	1200	1250	1450	1600
Length of mounting	С	430	620	670	750	850	1230	1280	1480	1630
Length of body	D	456	646	696	776	876	1256	1306	1506	1656

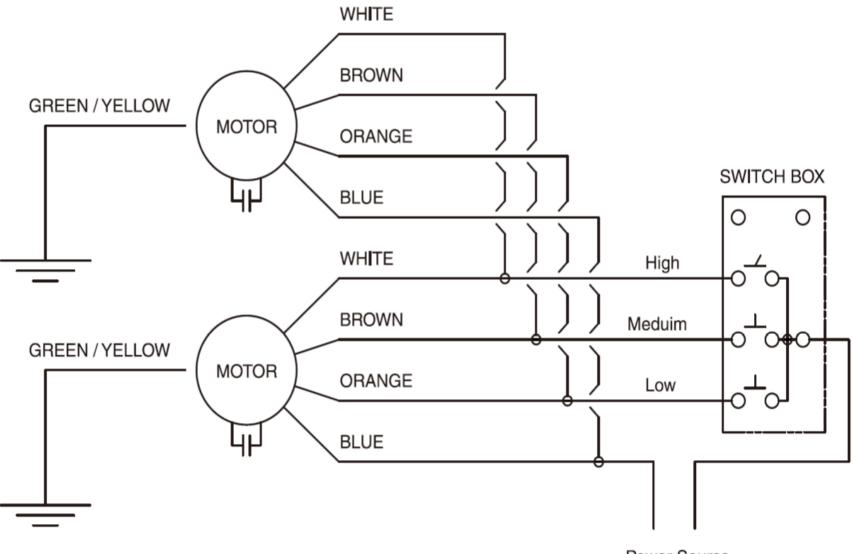


Model (4 pipe series)		W05F-34H4	W05F-51H4	W05F-68H4	W05F-85H4	W05F-102H4	W05F-136H4	W05F-170H4	W05F-204H4	W05F-238H4
Length of FCU	A	624	814	864	944	1044	1424	1474	1674	1824
Length of air outlet	В	400	590	640	720	820	1200	1250	1450	1600
Length of mounting	С	430	620	670	750	850	1230	1280	1480	1630
Length of body	D	456	646	696	776	876	1256	1306	1506	1656
Length of air return	E	491	681	731	811	821	1201	1251	1451	1601

- Installation Dimension (With plenum_air return from bottom) ——



Model (4 pipe series)	· · · · · ·	W05F-34H4	W05F-51H4	W05F-68H4	W05F-85H4	W05F-102H4	W05F-136H4	W05F-170H4	W05F-204H4	W05F-238H4
Length of FCU	A	624	814	864	944	1044	1424	1474	1674	1824
Length of air outlet	В	400	590	640	720	820	1200	1250	1450	1600
Length of mounting	С	430	620	670	750	850	1230	1280	1480	1630
Length of body	D	456	646	696	776	876	1256	1306	1506	1656
Length of air return	, <u> </u>	491	681	731	811	821	1201	1251	1451	1601
										00



Power Source

Note: electrical connection should be made to the unit according to local codes and ordinances.

—— Performance Parameter Correction Coefficient Table ——

					Entering	air temper	ature DB=	27°C WB	=19.5°C				Water				Entering a	iir temperati	ure 21℃			
	Water				E	Intering wa	ter temper	ature (°C)				Model	flow				Entering w	vater temper	ature (°C)			
Model	flow	Ę	5	(3	7	7	8	3	ç)		(l/h)	40	45	50	55	60	65	70	75	80
	(l/h)	TH	SH		294	1584	1996	2415	2832	3243	3654	4093	4495	4911								
		(₩)	(W)	(₩)	W05F-34	352	1684	2105	2548	2982	3405	3837	4278	4697	5128							
	294	2124	1379	1992	1365	1859	1328	1724	1277	1595	1208		412	1718	2165	2620	3070	3507	3956	4411	4843	5288
W05F-34	352	2328	1473	2183	1436	2037	1405	1890	1349	1748	1285		375	2296	2870	3473	4064	4653	5249	5853	6426	7018
	412	2523	1558	2380	1506	2220	1480	2059	1420	1905	1361	W05F-51	465	2407	3009	3640	4267	4886	5511	6144	6746	7366
	375	2792	2095	2634	1975	2462	1847	2283	1778	2117	1709		558	2480	3100	3751	4396	5033	5677	6330	6951	7591
W05F-51	465	3062	2297	2889	2167	2700	2026	2504	1908	2323	1834		496	3162	3954	4824	5654	6491	7321	8164	8964	9789
	558	3215	2412	3033	2276	2835	2127	2626	2045	2435	1966	W05F-68	620	3343	4179	5057	5926	6804	7674	8557	9396	10242
11055 60	496	3726	2795	3515	2637	3285	2464	3047	2369	2826	2227		745	3425	4316	5222	6120	7008	7906	8815	9670	10541
W05F-68	645 745	4083 4290	3063 3218	3852 4047	2890 3036	3600 3782	2701 2837	3340 3508	2597 2631	3098 3254	2497 2441			3960	4950	5990	7020	8045	9076	10120	11101	12067
	620	4657	3494	4393	3296	4106	3080	3809	2961	3527	2847	W05F-85	620						9529			
W05F-85	790	5104	3829	4393	3612	4100	3376	4174	3131	3872	2905	w05F-85	775	4095	5160	6295	7379	8448		10625	11656	12670
w031-85	929	5411	4059	5105	3830	4771	3579	4425	3441	4105	3337		929	4251	5355	6480	7594	8703	9817	10946	12008	13065
	742	5588	4192	5272	3955	4927	3696	4570	3553	4240	3417		742	4584	5729	6933	8111	9295	10485	11690	12824	13953
W05F-102	935	6125	4595	5778	4335	5400	4051	5010	3895	4646	3745	W05F-102	930	4764	6004	7264	8500	9741	10987	12250	13439	14648
	1114	6553	4916	6182	4638	5778	4335	5360	4016	4972	3846		1114	4902	6176	7473	8758	10037	11322	12625	13850	15096
	990	7451	5209	7029	5211	6569	4931	6118	4731	5675	4478		990	5852	7374	8922	10439	11963	13495	15047	17332	17967
W05F-136	1250	8166	5493	7704	5481	7200	5218	6679	4999	6195	4761	W05F-136	1239	6145	7743	9368	10961	12562	14170	15799	17851	18874
	1486	8657	5678	8167	5709	7633	5397	7081	5179	6568	4963		1486	6314	7955	9625	11291	12939	14595	16237	19513	19457
	1238	9314	6712	8787	6717	8212	6356	7617	6097	7066	5598		1238	7498	9448	11526	13486	15455	17433	19437	22347	23242
W05F-170	1550	10208	7078	9630	7064	9000	6726	8348	6444	7744	6135	W05F-170	1548	7916	9975	12069	14121	16197	18270	20371	23016	24358
	1858	10923	7319	10305	7360	9631	6957	8934	6676	8287	6419		1858	8147	10265	12421	14557	16682	18817	20981	26877	25110
	1486	11176	8147	10544	8150	9854	7711	9141	7397	8480	7112		1486	9155	11534	13957	16358	18746	21145	23576	23823	28216
W05F-204	1857	12249	8589	11556	8570	10800	8160	10018	7817	9293	7444	W05F-204	1857	9609	12108	14651	17142	19645	22160	24707	27103	29570
	2228	13142	9013	12398	8964	11587	8519	10748	8175	9970	7833		2228	9907	12483	15104	17673	20235	22804	25427	27893	30431
	1490	12545	9973	11844	9594	10932	9074	10233	8596	9371	7965		1490	8968	113534	13857	16258	18746	21145	23676	26123	28616
W05F-238	2230	14821	10227	13799	9728	12600	9080	11965	8734	11196	8397	W05F-238	2230	9609	12108	14751	17342	20040	22660	25107	27803	30570
	2980	16060	10760	15033	10222	14267	9916	13224	9389	12196	8781		2980	12607	12683	15204	17973	20635	23304	26027	28793	31531

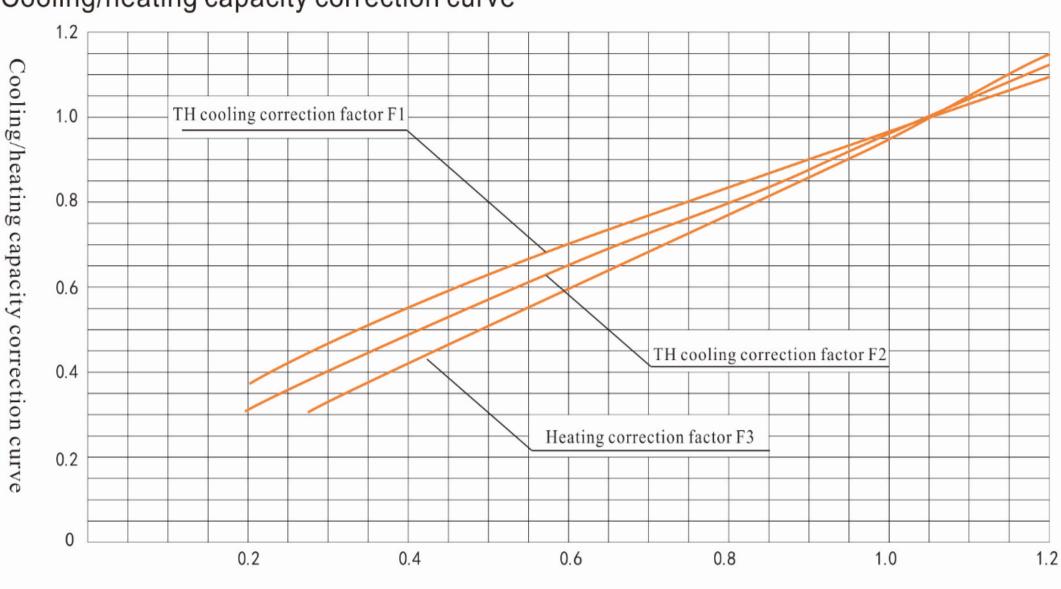
In the table above, the capacity value is the parameter at high speed; the capacity value at medium & low air speed is the parameter multiplied by the correction factor.

	Model	W05F-34	W05F-51	W05F-68	W05F-85	W05F-102	W05F-136	W05F-170	W05F-204
Mid	TH	0.89	0.90	0.89	0.89	0.90	0.89	0.90	0.91
speed	SH	0.86	0.86	0.87	0.87	0.86	0.86	0.87	0.87
Low	TH	0.77	0.76	0.76	0.76	0.77	0.77	0.75	0.75
speed	SH	0.72	0.72	0.73	0.73	0.75	0.75	0.74	0.74

Cooling performance correction coefficient table

Heating performance correction coefficient table

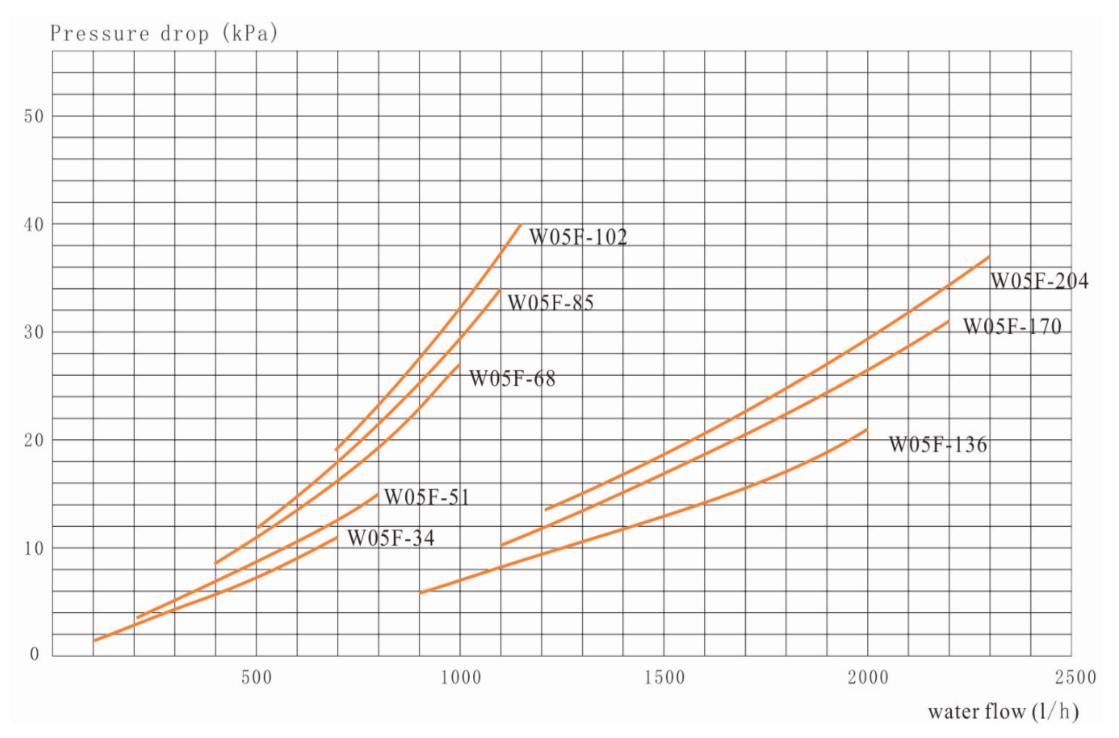
Mode	W05F-34	W05F-51	W05F-68	W05F-85	W05F-102	W05F-136	W05F-170	W05F-204
Mid speed	0.84	0.86	0.87	0.87	0.87	0.86	0.85	0.85
Low speed	0.74	0.75	0.84	0.75	0.75	0.76	0.74	0.74



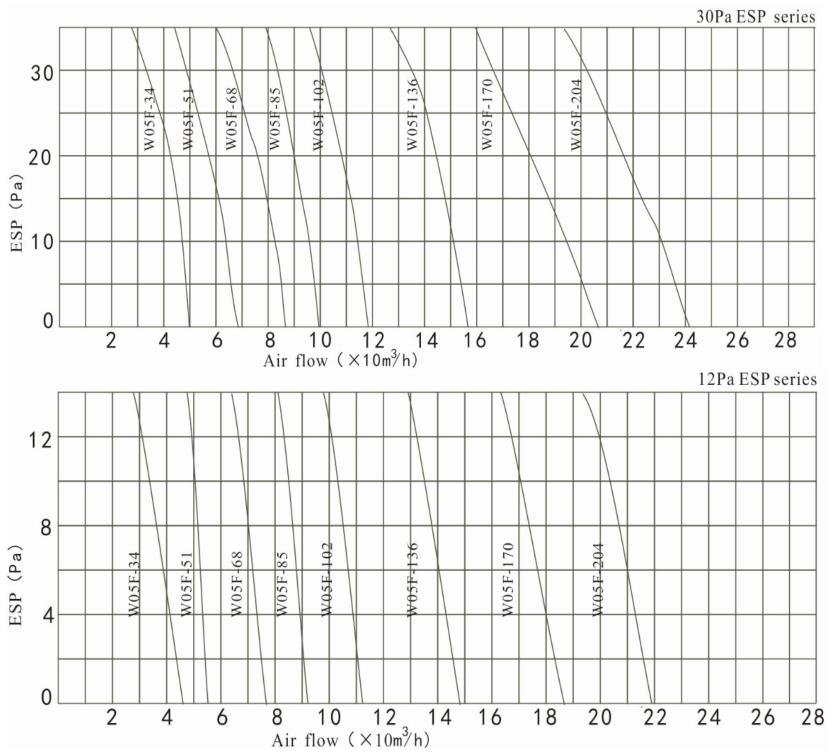
Cooling/heating capacity correction curve

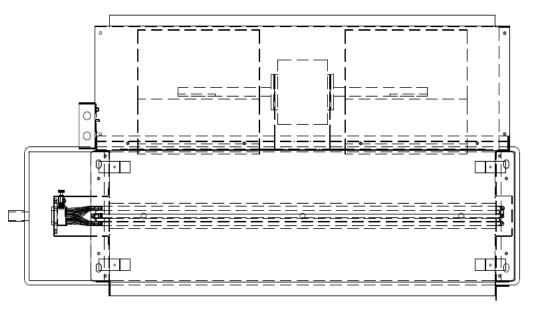
Water flow ratio

—— Pressure Drop Performance Curve ——

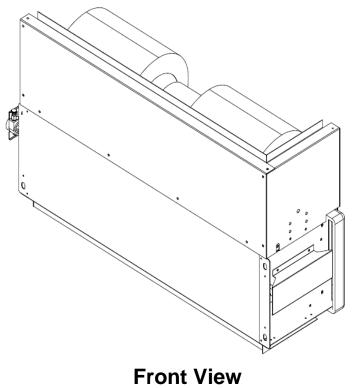


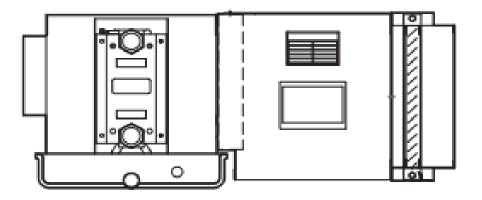
—— Pressure Drop Performance Curve ——



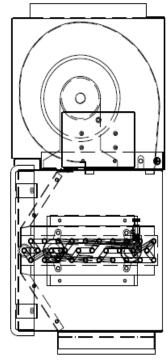






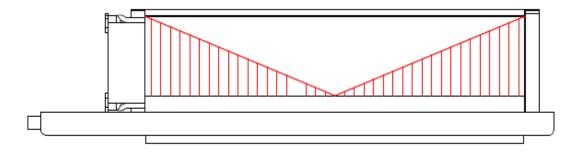


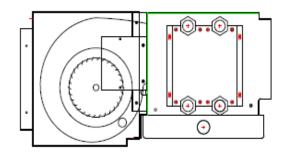
Plenum Back with Filter



Side View

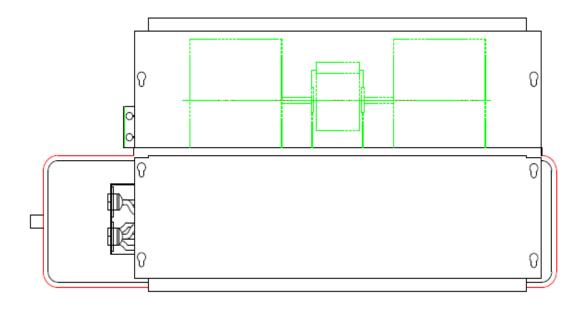
------ View of Horizontal Fan Coil Unit (four-pipe) ------





Front View

Side View



Top View

Slim Style Ceiling Concealed Horizontal 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 inrection as option

The water pipe connection direction can be customized, it will benefit 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 800CFM (510~1360m3/h), which is fully satisfy to the necessory of home using

6. High efficiency

Adopt good quality heat exchanger and fan motor, which is benefit to the heat exchanging capacity and efficiency;

7. Drain pump as option

A 750mm lift drain pump is optional to built-in the fan coil unit, 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;

	Model		W05F-	34H2-3B	51H2-3B	60H2-3B	68H2-3B	85H2-3B	102H2-3B	120H2-3B
F	ower sup	ply				AC 208~23	0V/1Ph/50Hz (6	60Hz as option)		
		High speed	m³/h	340	510	600	680	850	1020	1200
Air flo	w	Middle speed	m³/h	250	380	450	515	660	765	900
		Low speed	m³/h	170	260	300	340	430	530	600
St	atic press	sure	Ра	12	12	12	12	12	12	12
	TH	High speed	W	200	2500	3100	4000	5000	5600	6300
	SH	r light speed	W	1490	1863	2310	2980	3725	4172	4694
Cooling	TH	Middle speed	W	1620	2025	2511	3240	4050	4536	5103
capacity	SH	Mildule Speed	W	1280	1600	1984	2560	3200	3583	4031
	TH	Low opend	W	1260	1575	1953	2520	3150	3528	3969
	SH	Low speed	W	1033	1292	1601	2066	2583	2893	3255
Llecting	Hig	gh speed	W	3200	4100	5000	6500	8100	9100	10200
-	Mid	dle speed	W	2464	3157	3850	5005	6237	7007	7854
capacity	Lo	w speed	W	1936	2481	3025	3933	4901	5506	6171
Noise level	Hig	gh speed	dB(A)	31	37	40	40	43	43	46
Power input	Hig	gh speed	W	35	50	55	60	70	90	110
	Coil			Higl	h efficient copp	er pipe to wear	Hydrophilic alur	ninum coil; Worl	king pressure 1.6	SMPa
	Fan			Cent	rifugal fan (forv	vard curved gal	vanized steel fa	n wheel); Galvar	nized steel fan ho	ousing
	Motor				AC	motor; The mo	tor insulation sy	stem shall be C	lass E	
W	ater flow	rate	m³/h	0.34	0.43	0.53	0.68	0.85	0.95	1.07
P	ressure d	Irop	kPa	14	21	26	25	28	35	38
Coil con	nection &	drain pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Unit dir	mension ((L×W×H)	mm	700×465×200	700×465×200	700×465×200	900×465×200	900×465×200	1100×465×200	1100×465×200
	Middle speed W 2464 3157 3850 5005 6237 7007 7854 Low speed W 1936 2481 3025 3933 4901 5506 6171 le level High speed dB(A) 31 37 40 40 43 43 46 er input High speed W 35 50 55 60 70 90 110 Coil High speed W 35 50 55 60 70 90 110 Coil High efficient copper pipe to wear Hydrophilic aluminum coil; Working pressure 1.6MPa Fan Centrifugal fan (forward curved galvanized steel fan wheel); Galvanized steel fan housing Motor AC motor; The motor insulation system shall be Class E Water flow rate m ³ /h 0.34 0.43 0.53 0.68 0.85 0.95 1.07 Pressure drop kPa 14 21 26 25 28 35 38 Coil connection & drain pipe							26		
0				-						

Slim Style (Ultra thin) Ceiling Concealed Horizontal Duct Fan Coil Unit (two-pipe system)

Notes:

1.Cooling condition: indoor DB=27°C(80.6°F), WB=19.5°C(67.1°F), EWT 7°C(44.6°F), temperature difference between EWT and LWT:5°C(41°F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C(69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C(140 $^{\circ}$ F), the same amount of water flow as with cooling.

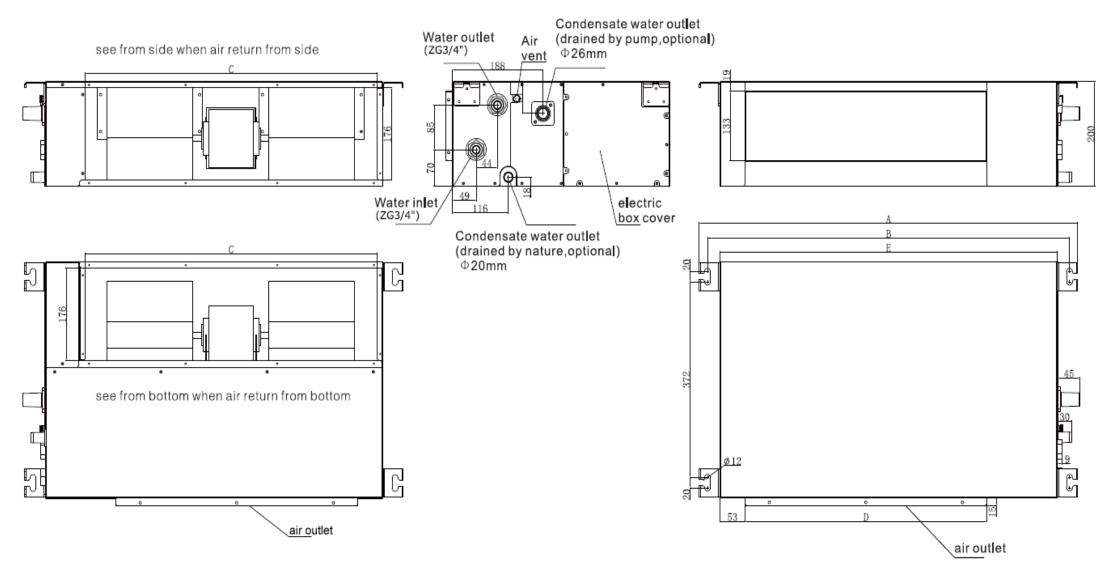
3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20 °C (68 °F) air inlet dry bulb temperature.

6.3-Row= 3-row chilled water/hot water coil.

Installation Dimension ——



Model	34H2-3B	51H2-3B	60H2-3B	68H2-3B	85H2-3B	102H2-3B	120H2-3B
Α	784	784	784	984	984	1184	1184
В	750	750	750	950	950	1150	1150
С	605	605	605	805	805	1005	1005
D	500	500	500	700	700	900	900
E	700	700	700	900	900	1100	1100

High Static Pressure Ceiling Concealed Horizontal Ducted Type Fan Coil Unit



Characteristic —

1. Classical elegant design No-spangle galvanized sheet, beautiful appearance;

2. High static pressure, long distance air supply The static pressure is Maximum 200Pa and Minmum 80Pa

- 3. Big diameter fan, large air volume with low noise
- 4. Electric heater as option
- 5. Fresh air can be input from outside

Model W05F- 136H2-3G 170H2-3G 204H2-3G 238H2-3G 272H2-3G 306H2-3G 340H2-3G 408H2-3G Power supply AC 208~230V/1Ph/50Hz (60Hz as option) AC 208~230V/1Ph											
	Model		W05F-	136H2-3G	170H2-3G	204H2-3G	238H2-3G	272H2-3G	306H2-3G	340H2-3G	408H2-3G
F	ower sup	oply				AC	208~230V/1Ph	/50Hz (60Hz as	option)		
		High speed	m³/h	1360	1700	2040	2380	2720	3060	3400	4080
Air flo	W	Middle speed	m³/h	1090	1360	1635	1900	2180	2450	2720	3260
		Low speed	m³/h	815	1020	1225	1430	1630	1830	2040	2450
St	tatic press	sure	Pa	120	120	120	120	120	120	120	120
	TH	High speed	W	7200	9000	10800	12600	14400	16200	18000	21600
	SH	riigii speed	W	5350	6650	8046	9350	10650	12000	13350	16000
Cooling	TH	Middle speed	W	5450	6800	8150	9500	10850	12250	13600	16300
capacity	SH	Mildule Speed	W	3900	4900	5850	6850	7800	8800	9800	11750
	TH	Low apood	W	4200	5250	6300	7350	8400	9450	10500	12600
	SH	Low speed	W	2950	3700	4450	5200	5950	6650	7400	8900
Lleating	Heating High speed		W	10800	13500	16200	18900	21600	24300	27000	32400
capacity	Mid	dle speed	W	8200	10250	12400	14350	16400	18450	20500	24600
capacity	Lo	w speed	W	7000	8800	10550	12300	14050	15800	17550	21050
Noise level	Hię	gh speed	dB(A)	50	51	52	54	54	56	56	57
Power input	Hię	gh speed	W	380	420	450	520	550	880	900	1100
	Coil				High efficie	ent copper pipe	to wear Hydrop	hilic aluminum c	oil; Working pres	sure 1.6MPa	
	Fan				Centrifugal	fan (forward cu	rved galvanized	l steel fan wheel)	; Galvanized ste	el fan housing	
	Motor					AC motor;	The motor insu	lation system sh	all be Class E		
W	ater flow	rate	m³/h	1.23	1.54	1.85	2.16	2.46	2.77	3.08	3.7
Р	ressure c	lrop	kPa	25	28	30	35	36	42	43	50
Coil	connectio	on pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
						3/4"					
Unit di	mension	(L×W×H)	mm	970×760×425	1050×760×425	1050×760×425	1190×760×425	1190×760×425	1380×760×425	1380×760×425	1640×760×425
	Weight	t	kg	47	49	50	54	57	60	65	82

High Static Pressure Ceiling Concealed Horizontal Ducted Type Fan Coil Unit (two-pipe system)

Notes:

1. Cooling condition: indoor DB=27 $^{\circ}$ C (80.6 $^{\circ}$ F), WB=19.5 $^{\circ}$ C (67.1 $^{\circ}$ F), EWT 7 $^{\circ}$ C (44.6 $^{\circ}$ F), temperature difference between EWT and LWT:5 $^{\circ}$ C (41 $^{\circ}$ F).

2. Heating condition: Indoor DB=21 $^{\circ}$ C (69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C (140 $^{\circ}$ F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20 $^\circ \rm C$ (68 $^\circ \rm F$) air inlet dry bulb temperature.

6.3-Row= 3-row chilled water/hot water coil.

-											
	Model		W05F-	136H4-3G	170H4-3G	204H4-3G	238H4-3G	272H4-3G	306H4-3G	340H4-3G	408H4-3G
P	ower sup	ply				AC	208~230V/1Ph	n/50Hz (60Hz as	option)		
		High speed	m³/h	1360	1700	2040	2380	2720	3060	3400	4080
Air flo	w	Middle speed	m³/h	1090	1360	1635	1900	2180	2450	2720	3260
		Low speed	m³/h	815	1020	1225	1430	1630	1830	2040	2450
St	atic pres	sure	Ра	120	120	120	120	120	120	120	120
	TH	High speed	W	7200	9000	10800	12600	14400	16200	18000	21600
	SH	r light speed	W	5350	6650	8046	9350	10650	12000	13350	16000
Cooling	TH	Middle speed	W	5450	6800	8150	9500	10850	12250	13600	16300
capacity	SH	Midule Speed	W	3900	4900	5850	6850	7800	8800	9800	11750
	TH	Low speed	W	4200	5250	6300	7350	8400	9450	10500	12600
	SH	Low speed	W	2950	3700	4450	5200	5950	6650	7400	8900
Lleating	Hię	gh speed	W	10800	13500	16200	18900	21600	24300	27000	32400
Heating capacity	Mid	dle speed	W	8200	10250	12400	14350	16400	18450	20500	24600
capacity	Lo	w speed	W	7000	8800	10550	12300	14050	15800	17550	21050
Noise level	Hię	gh speed	dB(A)	50	51	52	54	54	56	56	57
Power input	Hię	gh speed	W	380	420	450	520	550	880	900	1100
	Coil				High efficie	ent copper pipe	to wear Hydrop	hilic aluminum c	oil; Working pres	sure 1.6MPa	
	Fan				Centrifugal	fan (forward cu	rved galvanized	steel fan wheel)); Galvanized ste	el fan housing	
	Motor					AC motor;	The motor insu	ulation system sh	all be Class E		
Water flow	u roto	Chilled pipe	m³/h	1.23	1.54	1.85	2.16	2.46	2.77	3.08	3.7
water nov	Viale	⊓ot water pipo	m³/h	0.53	0.66	0.79	0.92	1.06	1.19	1.32	1.58
Pressure	drop	Chilled pipe	kPa	25	28	30	35	36	42	43	50
Flessule	urop	⊓ot water pipo	kPa	12	12	14	17	18	21	22	27
Coil	connectio	on pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Conde	ensing wa	ater pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Unit dir	mension	(L×W×H)	mm	970×760×425	1050×760×425	1050×760×425	1190×760×425	1190×760×425	1380×760×425	1380×760×425	1640×760×425
	Weight		kg	47	49	50	54	55	60	61	80

High Static Pressure Ceiling Concealed Horizontal Ducted Type Fan Coil Unit (four-pipe system)

Notes:

1.Cooling condition: indoor DB=27°C(80.6°F), WB=19.5°C(67.1°F), EWT 7°C(44.6°F), temperature difference between EWT and LWT:5°C(41°F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C(69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C(140 $^{\circ}$ F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20 °C (68 °F) air inlet dry bulb temperature.

6.3-Row= 3-row chilled water/hot water coil.

Model W05F- 102H4-(4+2)GZ 136H4-(4+2)GZ 170H4-(4+2)GZ 204H4-(4+2)GZ 238H4-(4+2)GZ 272H4-(4+2)GZ 306H4-(4+2)GZ 340H4-(4+2)GZ 408H4-(4+2)GZ												
	Model		W05F-	102H4-(4+2)GZ	136H4-(4+2)GZ	170H4-(4+2)GZ				306H4-(4+2)GZ	340H4-(4+2)GZ	408H4-(4+2)GZ
P	ower sup	ply					DC 208~2	30V/1Ph/50Hz (6	60Hz as option)			
		High speed	m³/h	1020	1360	1700	2040	2380	2720	3060	3400	4080
Air flo	w	Middle speed	m³/h	810	1090	1360	1635	1900	2180	2450	2720	3260
		Low speed	m³/h	610	815	1020	1225	1430	1630	1830	2040	2450
St	tatic press	sure	Ра	100	100	100	100	100	100	100	100	100
	TH	High speed	W	4500	5400	6700	7500	8100	9300	10500	11700	14000
	SH	ngn speed	W	3500	4200	5300	5900	6700	7700	8400	9500	11300
Cooling	TH	Middle speed	W	3500	4200	5300	5900	6400	7300	8300	9200	11000
capacity	SH		W	2800	3600	4400	5000	5400	6300	6900	7800	9300
	TH	Low speed	W	2800	3400	4200	4900	5300	6100	6800	7600	9100
	SH	Low speed	W	2400	2900	3600	4300	4600	5200	5800	6500	7800
Heating	Hig	h speed	W	10200	12200	15300	18400	21400	24500	27500	30600	36700
Heating capacity	Mido	dle speed	W	7700	9300	11600	13900	16200	18400	20800	23100	27700
	Lov	w speed	W	6000	7100	8900	10700	12500	14300	16100	17900	21400
Noise level	Hig	h speed	dB(A)	47	47	48	49	51	51	53	53	54
Power input	Hig	h speed	W	280	280	300	320	380	400	660	660	820
	Coil				Hiệ	gh efficient cop	per pipe to wear	r Hydrophilic alur	minum coil; Worl	king pressure 1.6	MPa	
	Fan					Double inle	et forward curve	ed centrifugal fan	; Galvanized ste	el fan housing		
	Motor					DC Bru	shless Motor; T	he motor insulat	ion system shall	be Class E		
Water flow		Chilled pipe	m³/h	0.77	0.92	1.15	1.34	1.39	1.59	1.8	2.0	2.4
	wiale		m³/h	1.18	1.41	1.75	2.13	2.45	2.82	3.15	3.51	4.2
Pressure		Chilled pipe	kPa	8	12	12	14	17	18	21	22	27
Flessule	ulop	not water	kPa	18	23	26	30	35	36	42	43	50
Coil	connectio	n pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Conde	ensing wa	ter pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Unit dir	mension (l	L×W×H)	mm	970×760×425	970×760×425	1050×760×425	1050×760×425	1190×760×425	1190×760×425	1380×760×425	1380×760×425	1640×760×425
	Weight		kg	49	49	51	52	56	59	63	68	85

High Static Pressure Ceiling Concealed Horizontal Ducted Type Fan Coil Unit with DC Brushless Motor (four-pipe system)

Notes:

1.Cooling condition: indoor DB=27 °C (80.6°F), WB=19.5°C (67.1°F), EWT 7°C (44.6°F), temperature difference between EWT and LWT:5°C (41°F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

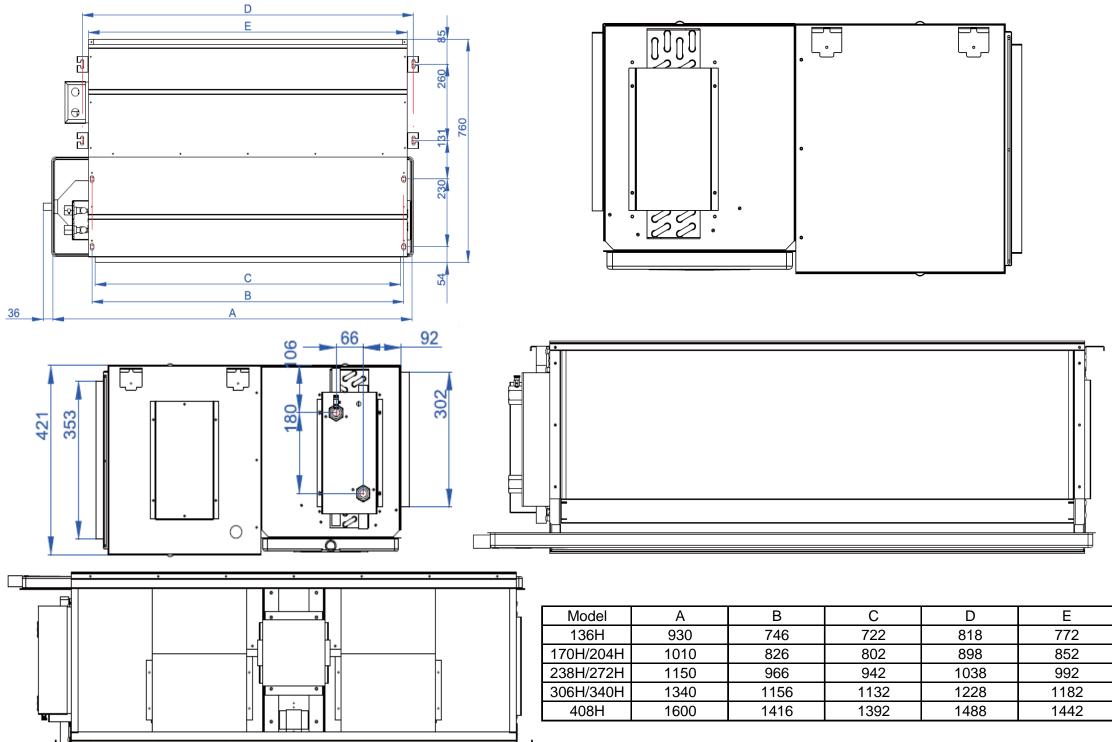
3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

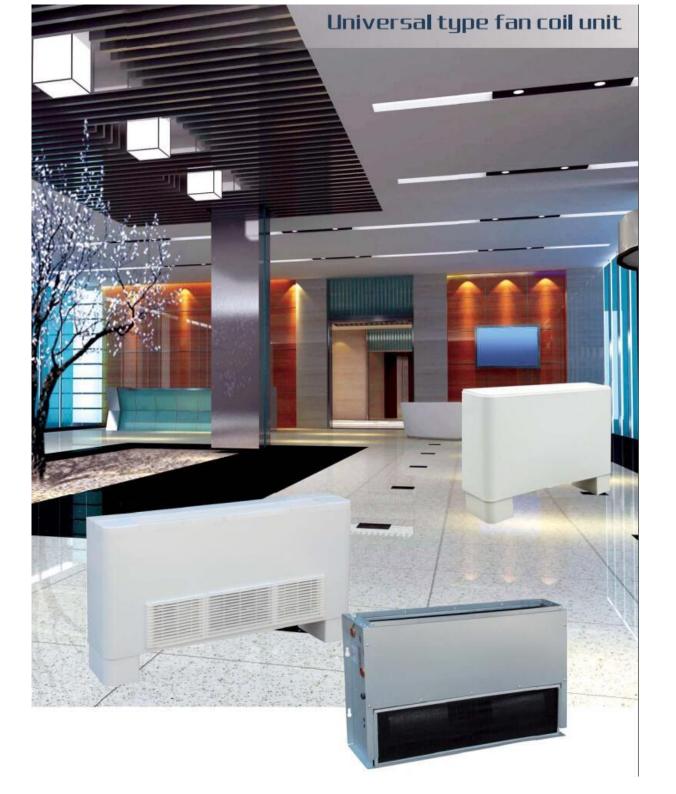
4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20 °C (68 °F) air inlet dry bulb temperature.

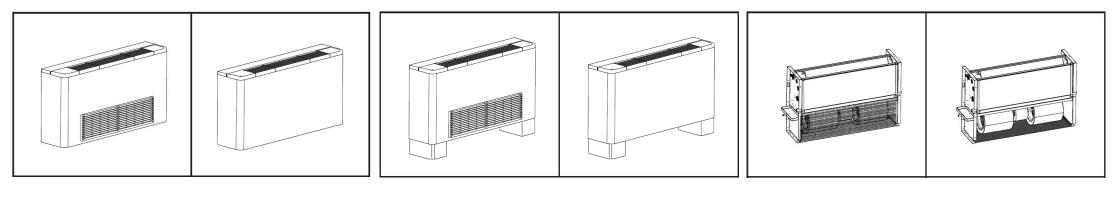
6.6-Row= 4 rows hot water coil and 2 rows chilled water.

- Installation Dimension ——





Universal Type Fan Coil Unit



Style I

Style II

Style III

Style IV

Style V

1

Style VI

Characteristic —

- 1. Universal design, the unit can be installed by vertical or horizontal.
- 2. Classical elegant design
- 3. Six kind of air distribution solution as option
- 4. Left/right water pipe connection can be changed freely
- 5. 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.



Universal Type Fan Coil Unit (two-pipe system)

	Model		W05F-	34TM	51TM	68TM	85TM	102TM	136TM	170TM	204TM	238TM		
F	Power sup	ply					AC 208~2	30V/1Ph/50Hz (6	60Hz as option)					
		High speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380		
Air flo	w	Middle speed	m³/h	260	390	510	640	770	1020	1280	1530	1790		
		Low speed	m³/h	170	260	340	430	510	680	850	1700 2040 1280 1530 850 1020 0 0 9000 10800 6839 8207 7472 8967 5903 7084 5903 7084 5903 7084 13500 16200 10655 12786 8372 10046 48 50 152 189 152 189 ag pressure 1.6MPa ed steel fan housing ss E 1.54 1.85 22 30 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 1908*250*608 20 758*235*608 1908*235*608 20 758*250*496 1908*250*496 20			
S	tatic press	sure	Pa	0	0	0	0	0	0	0	0	0		
	TH	High speed	W	1800	2700	3600	4500	5400	7200	9000	10800	12600		
	SH	nign speed	W	1368	2052	2736	3420	4103	5471	6839	8207	9575		
Cooling	TH	Middle speed	W	1494	2242	2989	3736	4483	5978	7472	8967	10461		
capacity	SH		W	1181	1771	2362	2952	3541	4722	5903	7084	8265		
	TH	Low cood	W	1181	1771	2362	2952	3541	4722	5903	7084	8265		
	SH	Low speed	W	953	1430	1907	2383	2860	3813	4765	5718	6672		
	Hig	gh speed	W	2700	4050	5400	6750	8100	10800	13500	16200	18900		
Heating capacity	Mid	dle speed	W	2131	3197	4262	5328	6393	8524	10655	12786	14917		
capacity	Lo	w speed	W	1675	2511	3349	4186	5024	6697	8372	10046	11721		
Noise level	Hig	gh speed	dB(A)	37	39	41	43	45	46	48	50	51		
Power input	Hiç	gh speed	W	37	52	62	76	96	134	152	189	228		
	Coil				Hiç	gh efficient cop	per pipe to wear	r Hydrophilic alur	minum coil; Worl	king pressure 1.6	MPa			
	Fan				Cer	ntrifugal fan (for	ward curved ga	alvanized steel fa	n wheel); Galvar	nized steel fan ho	ousing			
	Motor					AC	C motor; The m	otor insulation sy	stem shall be C	ass E				
W	later flow	rate	m³/h	0.31	0.46	0.62	0.77	0.93	1.23	1.54	1.85	2.16		
P	ressure d	Irop	kPa	7	15	18	23	28	30	22	30	36		
Coil	connectio	on pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
Cond	ensing wa	ater pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
	style I		mm	858*250*608	908*250*608	1058*250*608	1208*250*608	1258*250*608	1608*250*608	1758*250*608	1908*250*608	2058*250*608		
L Locit	style II		mm	858*235*608	908*235*608	1058*235*608	1208*235*608	1258*235*608	1608*235*608	1758*235*608	1908*235*608	2058*235*608		
Unit dimension	style III	(L×W×H)	mm	858*250*496	908*250*496	1058*250*496	1208*250*496	1258*250*496	1608*250*496	1758*250*496	1908*250*496	2058*250*496		
unnension	style IV		mm	858*235*496	908*235*496	1058*235*496	1208*235*496	1258*235*496	1608*235*496	1758*235*496	1908*235*496	2058*235*496		
	style I&VI		mm	688*234*494	738*234*494	888*234*494	1038*234*494	1088*234*494	1438*234*494	1588*234*494	1738*234*494	1888*234*494		
	Weight		kg	20	23	25.5	28	28.5	40.5	43	47	51		

Notes:

1. Cooling condition: indoor DB=27 °C (80.6 °F), WB=19.5 °C (67.1 °F), EWT 7 °C (44.6 °F), temperature difference between EWT and LWT:5 °C (41 °F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C(69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C(140 $^{\circ}$ F), the same amount of water flow as with cooling.

3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20 °C (68 °F) air inlet dry bulb temperature.

6.3-Row= 3-row chilled water/hot water coil.

Universal Type Fan Coil Unit (four-pipe system)

												'
	Model		W05F-	34TM4	51TM4	68TM4	85TM4	102TM4	136TM4	170TM4	204TM4	238TM4
F	Power supply						AC 208~2	30V/1Ph/50Hz (6	0Hz as option)			
	Hig	gh speed	m³/h	340	510	680	850	1020	1360	1700	2040	2380
Air flo	ow Mid	ddle speed	m³/h	260	390	510	640	770	1020	1280	1530	1790
	Lov	w speed	m³/h	170	260	340	430	510	680	850	1020	1190
S	Static pressure	Э	Pa	0	0	0	0	0	0	0	0	0
	TH	gh speed	W	1800	2700	3600	4500	5400	7200	9000	10800	12600
	SH	Jn speed	W	1368	2052	2736	3420	4103	5471	6839	8207	9575
Cooling	TH	ddle speed	W	1494	2242	2989	3736	4483	5978	7472	8967	10461
capacity	SH	Jule speed	W	1181	1771	2362	2952	3541	4722	5903	7084	8265
	TH	w speed	W	1181	1771	2362	2952	3541	4722	5903	7084	8265
	SH	N speed	W	953	1430	1907	2383	2860	3813	4765	5718	6672
Uppting	High sp	speed	W	2700	4050	5400	6750	8100	10800	13500	16200	18900
Heating capacity	Middle s	speed	W	2131	3197	4262	5328	6393	8524	10655	12786	14917
Capacity	Low sp	peed	W	1675	2511	3349	4186	5024	6697	8372	10046	11721
Noise level	High sp	speed	dB(A)	37	39	41	43	45	46	48	50	51
Power input	t High sp	speed	Ŵ	37	52	62	76	96	134	152	189	228
	Coil				Hiç	gh efficient copr	per pipe to wear	r Hydrophilic alun	ninum coil; Work	king pressure 1.6	MPa	
	Fan			1	Cer	ntrifugal fan (for	ward curved ga	alvanized steel far	n wheel); Galvar	nized steel fan ho	Jusing	
	Motor					AC	C motor; The m	notor insulation system	stem shall be Cl	ass E		
Water flow	Chi	nilled pipe	m³/h	0.31	0.46	0.62	0.77	0.93	1.23	1.54	1.85	2.16
Water no		n water	m³/h	0.11	0.17	0.22	0.28	0.34	0.45	0.56	0.67	0.78
Pressure	Chi	nilled pipe	kPa	7	15	18	23	28	30	22	30	36
Flessule		n water	kPa	2.8	6	7.2	9.2	11.2	12	8.8	12	14.4
Coil	l connection pi	vipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Cond	densing water	pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	style I		mm	858*250*608	908*250*608	1058*250*608	1208*250*608	1258*250*608	1608*250*608	1758*250*608	1908*250*608	2058*250*608
1.1.0.16	style II		mm	858*235*608	908*235*608	1058*235*608	1208*235*608	1258*235*608	1608*235*608	1758*235*608	1908*235*608	2058*235*608
Unit dimension	style III (I	(L×W×H)	mm	858*250*496	908*250*496	1058*250*496	1208*250*496	1258*250*496	1608*250*496	1758*250*496	1908*250*496	2058*250*496
onnension	style IV	Í Í	mm	858*235*496	908*235*496	1058*235*496	1208*235*496	1258*235*496	1608*235*496	1758*235*496	1908*235*496	2058*235*496
	style I&VI		mm	688*234*494	738*234*494	888*234*494	1038*234*494	1088*234*494	1438*234*494	1588*234*494	1738*234*494	1888*234*494
	Weight		kg	23	26	29	33	36	45	47	51	55

Notes:

1.Cooling condition: indoor DB=27 $^{\circ}$ C(80.6 $^{\circ}$ F), WB=19.5 $^{\circ}$ C(67.1 $^{\circ}$ F), EWT 7 $^{\circ}$ C(44.6 $^{\circ}$ F), temperature difference between EWT and LWT:5 $^{\circ}$ C(41 $^{\circ}$ F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

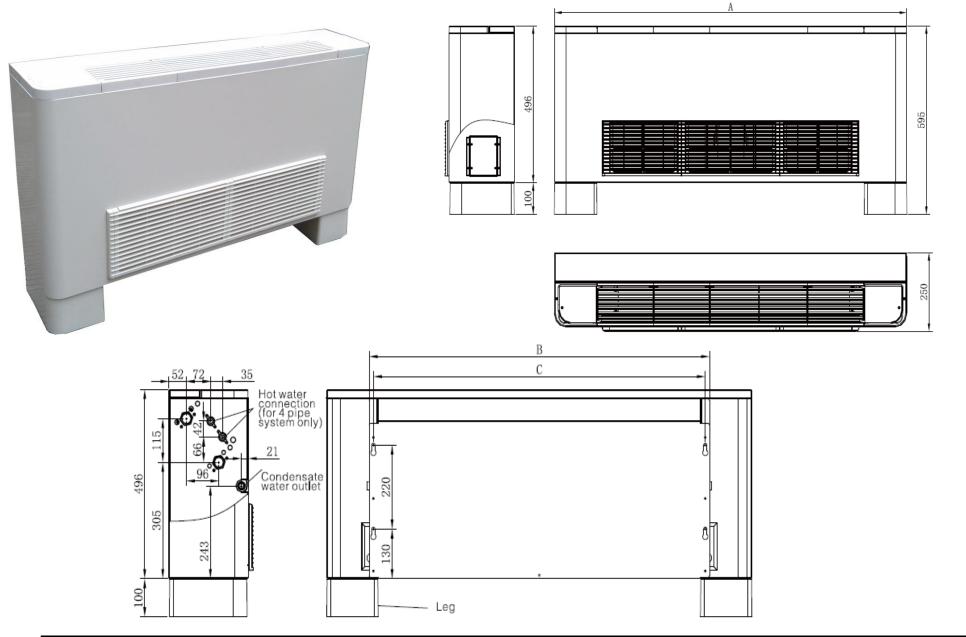
3. Air outlet static pressure of standard model: 0 Pa (with air outlet and filter); or 12 Pa (without air outlet and filter).

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

6.4-Row= 2-row chilled water,2-row hot water coil.

—— Installation Dimension ——



Model	W05F-34TM	W05F-51TM	W05F-68TM	W05F-85TM	W05F-102TM	W05F-136TM	W05F-170TM	W05F-204TM	I W05F-238TM
A (mm)	858	908	1058	1208	1258	1608	1758	1908	2058
B (mm)	608	658	808	958	1008	1358	1508	1658	1808
C (mm)	583	633	783	933	983	1333	1483	1633	1783
Quantity of fan	<u> </u>	2	2	2	2	4	4	4	4
Quantity of motor		<u> </u>	1	1	<u> </u>	2	2	2	2



Characteristic —

- 1. Ultra thin design the width of the body is only 130mm;
- 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 air and quiet running;
- 4. The air guide strip is installed with damping. Manually adjust the angle of the air;
- 5. Hidden intelligent LED temperature controller which is elegant appearance and easy to use;
- 6. Cold air protection system. It can stop the cold air blow out when the water temperature in the pipe is too cold;
- 7. Left/right water pipe and electric control box can be changed to both side; 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 as option which can decrease the cost of installation;
- 11. Installed by floor standing with leg, or hanging on the wall without leg;









- 12. Touch sreen controller is standard for DC style;
- 13. Auto swing function is standard and swing range is wide;
- 14. Remote controller is also standard for DC style;

Ultra-thin Vertical	Type Fan Coil	Unit (two-pipe system)	
Jura-unin vertical	туре гап соп	onit (two-pipe system)	

	Model		W05F-	20CM	30CM	40CM	50CM	50CM
F	ower sup	oply			AC 208~230	V/1Ph/50Hz (60)Hz as option)	
		High speed	m³/h	200	300	400	500	600
Air flo	W	Middle speed	m³/h	150	220	300	380	450
		Low speed	m³/h	110	160	230	290	340
St	atic pres	sure	Pa	0	0	0	0	0
	TH	High speed	W	1000	1800	2400	3000	3600
	SH	riigii speed	W	713	1283	1711	2139	2567
Cooling	TH	Middle speed	W	800	1440	1920	2400	2880
capacity	SH	Midule Speed	W	555	999	1330	1660	1990
	TH	Low speed	W	650	1170	1560	1950	2340
	SH	Low speed	W	430	770	1025	1280	1535
Heating	Hię	gh speed	W	1600	2900	3850	4800	5750
capacity	Mid	dle speed	W	1280	2320	3080	3840	4600
oupdoily	Lo	w speed	W	830	1510	2000	2500	2990
Noise level	Hię	gh speed	dB(A)	38	39	40	41	42
Power input	Hię	gh speed	W	15	18	20	26	32
	Coil			High e	fficient copper	pipe to wear Hy	drophilic alumir	num coil
	Fan					Cross-flow		
	Motor			AC r	notor; The moto	or insulation sys	stem shall be Cl	ass E
W	ater flow	rate	m³/h	0.17	0.26	0.34	0.43	0.51
P	ressure c	lrop	kPa	4	6	8	10	12
Coil con	nection &	drain pipe	Inch	1/2"	1/2"	1/2"	1/2"	1/2"
Unit dime	nsion	L×W×H	mm	700×130×681	900×130×681	110 <mark>0×130×</mark> 681	130 <mark>0×130×681</mark>	1500×130×681
	Weight		kg	14.5	18.5	21.5	24	27

Notes:

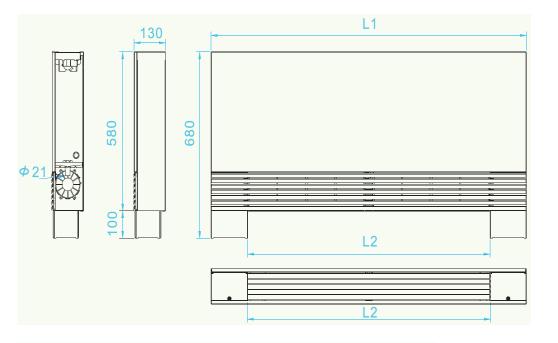
1.Cooling condition: indoor DB=27 $^{\circ}$ C(80.6 $^{\circ}$ F), WB=19.5 $^{\circ}$ C(67.1 $^{\circ}$ F), EWT 7 $^{\circ}$ C(44.6 $^{\circ}$ F), temperature difference between EWT and LWT:5 $^{\circ}$ C(41 $^{\circ}$ F).

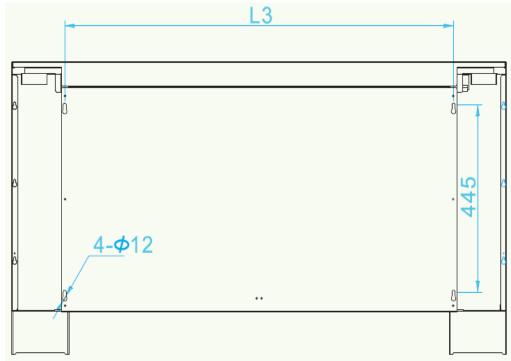
2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

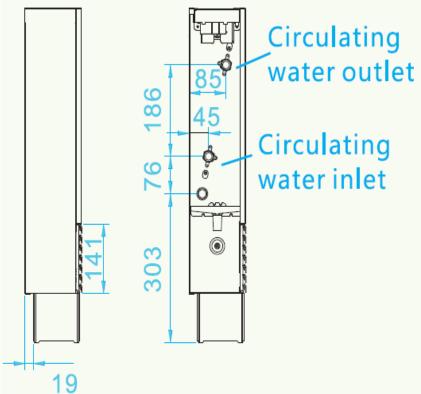
3.Noise level is tested base on GB/T 19232-2003.

4.Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

Installation Dimension ——







Model W05F	20CM	30CM	40CM	50CM	60CM
L1 (mm)	700	900	1100	1300	1500
L2 (mm)	400	600	800	1000	1200
L3 (mm)	422	622	822	1022	1222

High Wall Mounted Type Fan Coil Unit





Туре В

	Model		W05F-	34W2	51W2	68W2	85W2	102W2	136W2
F	ower sup	ply			AC 2	208~230V/1Ph/	50Hz (60Hz as	option)	
		High speed	m³/h	340	510	680	850	1020	1360
Air flo	W	Middle speed	m³/h	260	380	515	660	765	1040
		Low speed	m³/h	180	260	340	430	530	710
St	atic pres	sure	Pa	0	0	0	0	0	0
	TH	High speed	W	2100	2700	4000	4500	5700	7200
	SH	High speed	W	1600	2025	3000	3375	4300	5400
Cooling	TH	Middle speed	W	1700	2214	3200	3690	4600	5904
capacity	SH	Midule speed	W	1400	1650	2200	2410	3200	3926
	TH	Low opend	W	1300	1647	2400	2745	3500	4392
	SH	Low speed	W	700	960	1500	1715	2200	2710
	Hię	gh speed	W	3100	4050	5900	6750	8500	10800
Heating capacity	Mid	dle speed	W	2500	3219	4700	5366	6800	8586
сарасну	Lo	w speed	W	1700	2268	3300	3780	4800	6048
Noise level	Hię	gh speed	dB(A)	39	41	42	45	46	47
Power input	Hię	gh speed	W	35	40	75	90	125	130
	Coil			High efficier	nt copper pipe to	o wear Hydroph	ilic aluminum c	oil; Working pres	sure 1.6MPa
	Fan					Cros	ss-flow		
	Motor				AC motor;	The motor insul	ation system sh	all be Class E	
W	ater flow	rate	m³/h	0.36	0.46	0.71	0.77	0.98	0.93
P	ressure c	Irop	kPa	12	14	17	18	23	25
Coil con	nection &	drain pipe	Inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Unit dir	mension	(L×W×H)	mm	780×276×202	780×276×202	950×313×240	950×313×240	1055×313×240	1055×313×240
	Weight		kg	10	10	14	14	16	16

High Wall Mounted Type Fan Coil Unit (two-pipe system)

Notes:

1.Cooling condition: indoor DB=27°C(80.6°F), WB=19.5°C(67.1°F), EWT 7°C(44.6°F), temperature difference between EWT and LWT:5°C(41°F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C(69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C(140 $^{\circ}$ F), the same amount of water flow as with cooling.

3.Noise level is tested base on GB/T 19232-2003.

4. Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

Floor Standing Type Fan Coil Unit

Mod	el	W05F-	140S	160S	200S	250S	480S
	High (m3/h)	m³/h	1400	1600	2000	2500	4800
Air flow rate	Middle (m ³ /h)	m³/h	1200	1400	1740	2100	4000
	Low (m ³ /h)	m³/h	900	1100	1420	1700	3550
	High (W)	m ³ /h	6360	7300	10000	12500	28600
Cooling capacity	Middle (W)	m ³ /h	5500	6280	9000	11250	25000
	Low (W)	m ³ /h	4300	5160	7000	8750	20500
	High (W)	W	9550	10960	15000	18800	41800
Heating capacity	Middle (W)	W	8260	9420	12000	15500	35000
	Low (W)	W	6450	7740	10000	13000	29800
Noise level		dB(A)	≤50	≤56	≤56	≤56	≤60
Power supply				AC 208~230	V/1Ph/50Hz (60)Hz as option)	
Water pipe size		Inch	3/4"	3/4"	3/4"	3/4"	3/4"
	Length	mm	500	520	620	620	1200
Dimension	Width	mm	285	325	380	380	400
	Height	mm	1700	1760	1910	1910	1860
Net weight		kg	38	45	56	65	132
Gross weight		kg	42	50	62	73	158
Notes:				-			





Notes:

1.Cooling condition: indoor DB=27°C(80.6°F), WB=19.5°C(67.1°F), inlet water temperature 7°C(44.6°F), temperature difference between inlet/outlet water:5°C(41°F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F).

3.The motor insulation class is E.

4.Noise level is tested base on GB/T 19232-2003.

5.Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

Floor & Ceiling Type Fan Coil Unit



- Characteristic ——

- 1. Classical elegant design;
- 2. Be installed by ceiling, floor standing or wall mounted;

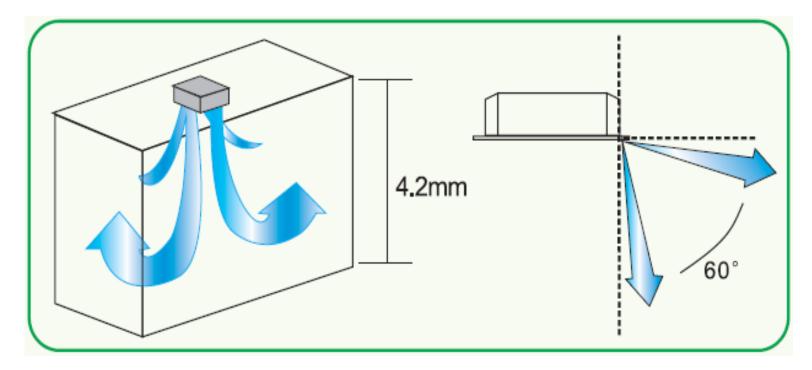


3. Remote controller thermostat or wired remote control thermostat as option;



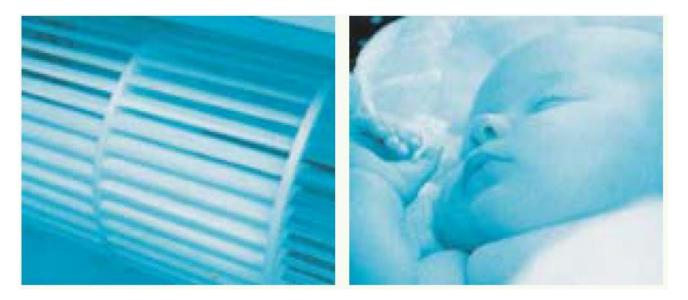
4. Auto swing;

5. Four-pipe system as option;



7. Quiet running

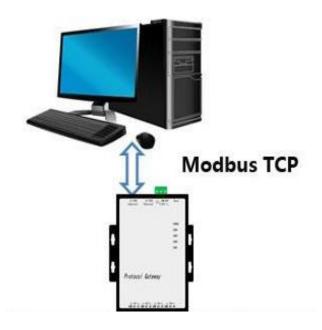
Double fan structure installed symmetrically, the unit running more stable;



8. Stainless steel hose and valve can be installed as entering/leaving water connection (optional);



9. Easily interfaced with most widely used ModBus and proprietary supervisory system based on ModBus protocol(RS485);

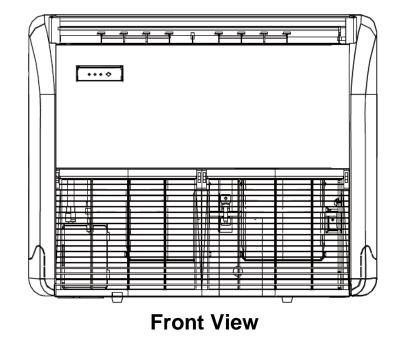


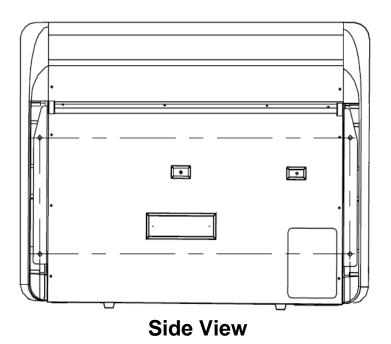
10. Water valve can be installed inside the unit (optional);

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



------ View of Floor & Ceiling Type Fan Coil Unit ------





Floor & Ceiling Type Fan Coil Unit (two-pipe system)

	Model		W05F-	51ZDM	68ZDM	85ZDM	102ZDM	136ZDM	170ZDM	204ZDM	238ZDM
F	Power sup	oply				AC	208~230V/1Ph	/50Hz (60Hz as	option)		
		High speed	m³/h	510	680	850	1020	1360	1700	2040	2380
Air flo	w	Middle speed	m³/h	390	510	640	770	1040	1280	1550	1800
		Low speed	m³/h	260	340	430	530	710	860	1050	1280
St	tatic pres	sure	Ра	0	0	0	0	0	0	0	0
	TH	High speed	W	2700	3600	4500	5400	7200	9000	10800	12600
	SH	riigii speed	W	1990	2730	3174	4261	5385	6746	8109	9062
Cooling	TH	Middle speed	W	2485	3030	3752	4467	6499	7926	9389	10605
capacity	SH	Mildule Speed	W	1571	2015	2450	3071	4278	5447	6669	7262
	TH	Low opend	W	2078	2504	2950	3831	5660	7295	9389	10605
	SH	Low speed	W	1212	1545	1844	2397	3317	4460	5300	5555
Liesting	Hię	gh speed	W	4050	5400	6750	8100	10800	13500	16200	18900
Heating capacity	Mid	dle speed	W	2792	3970	4941	5740	7987	10557	13101	14011
capacity	Lo	w speed	W	1788	2801	3533	3907	5464	7048	8714	9778
Noise level	Hię	gh speed	dB(A)	39	41	43	45	46	48	50	51
Power input	Hię	gh speed	W	52	62	76	96	134	152	189	228
	Coil				High efficie	ent copper pipe	to wear Hydrop	hilic aluminum c	oil; Working pres	sure 1.6MPa	
	Fan						Cro	oss-flow			
	Motor					AC motor;	The motor insu	lation system sh	all be Class E		
W	ater flow	rate	m³/h	0.46	0.62	0.77	0.93	1.23	1.54	1.85	2.16
Р	ressure c	drop	kPa	11.8	13.6	21	23	25	32	33	38
Coil con	nection &	drain pipe	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Unit di	mension	(L×W×H)	mm	905×673×243	905×673×243	905×673×243	1288×673×243	1288×673×243	1672×673×243	1672×673×243	1672×673×243
	Weight	t	kg	26	28	30	38	40	42	45	49

Notes:

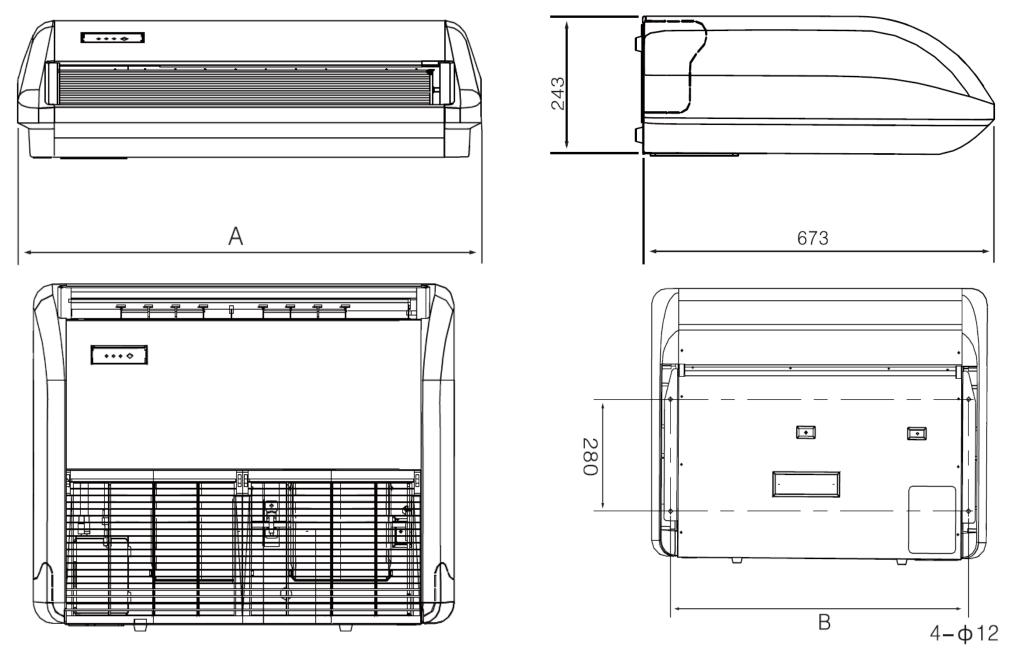
1.Cooling condition: indoor DB=27 $^{\circ}$ C(80.6 $^{\circ}$ F), WB=19.5 $^{\circ}$ C(67.1 $^{\circ}$ F), EWT 7 $^{\circ}$ C(44.6 $^{\circ}$ F), temperature difference between EWT and LWT:5 $^{\circ}$ C(41 $^{\circ}$ F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

3.Noise level is tested base on GB/T 19232-2003.

4. Air flow rate is tested when FCU operates in a dry state and 20°C (68°F) air inlet dry bulb temperature.

– Installation Dimension –––

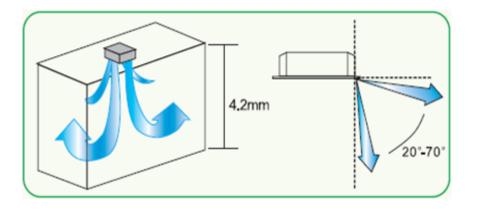


Model W05F-	51ZDM	68ZDM	85ZDM	102ZDM	136ZDM	170ZDM	204ZDM	238ZDM
A (mm)	905	905	905	1288	1288	1672	1672	1672
B (mm)	801	801	801	1184	1184	1568	1568	1568



Characteristic ——

1. Four-way air flowing, which can uniform temperature distribution in the room;



2. Specially design to avoid the air-short flowing;

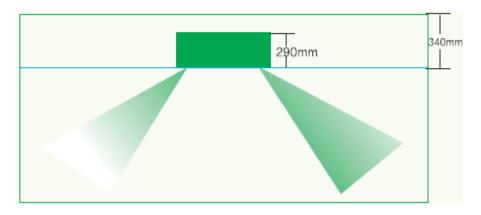


- 3. Thin design unit which can be installed in a limit ceiling (Minmum thickness 240mm);
- 4. Easy to be installed, low installation cost;
- 5. Remote controller thermostat or wired remote control thermostat as option;



6. Auto swing

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

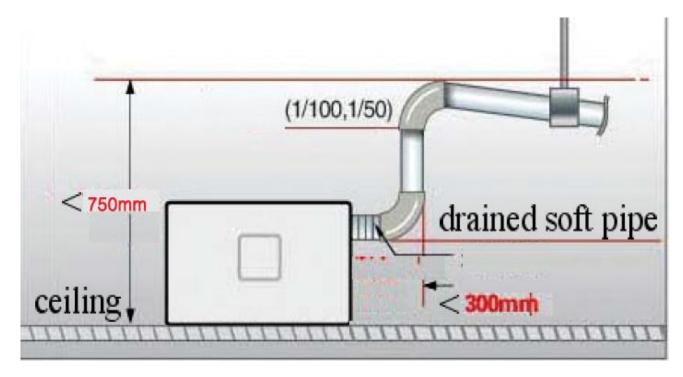


7. Quiet running

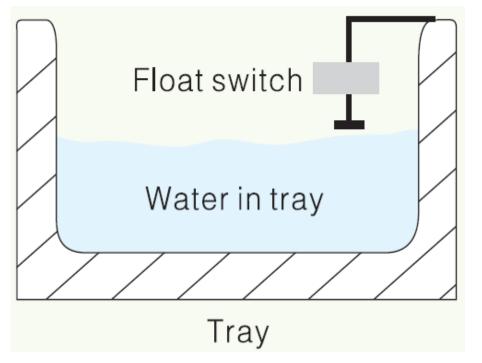


The efficiency of airflow rate, heavy air volume and low noise is excellent. Because the ventilator wheel is processed to sine strip seam, when enhances its flexibility, and drops the vibration of ventilator during revolving in large scale, simultaneously reduced the motor noise caused by ventilator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

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

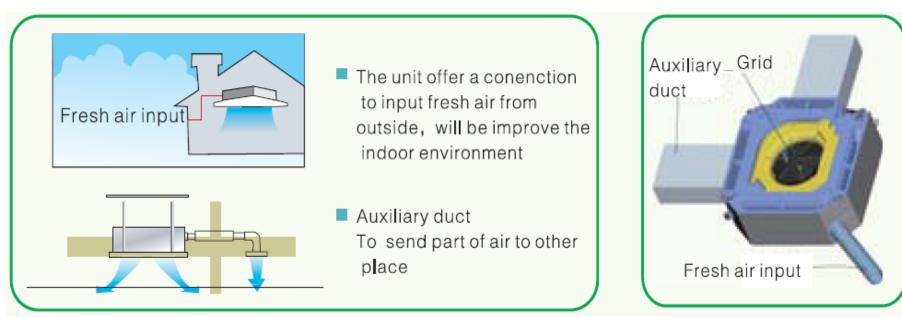


9. Float switch inside to prevent from leaking



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 air from outside, and ensure the quality of indoor air. Thus, the consumer can share the fresh an clear air to lessen illness caused by air conditioner. 11. Auxiliary duct is avaiable to send parts of air to other place, in order to improve indoor temperature air quality;

12. "C"type heat exchanger;



"C" type exchanger is helpful to improve the well-distributed of terminal air duct and refrigerant 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 air resistance, improved the efficiency of heat exchanger.

13. The water remain in the tray is easy to drain by manual;

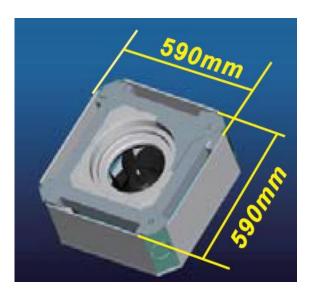
There are a rubber plug on the water collecting tray, we can drain out the dirty water by manual. Because the water remained inside the tray will keep for a long time, then there will be very dirty and there might be lots bacterial inside too, draining out the dirty water is benefit to the health and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

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

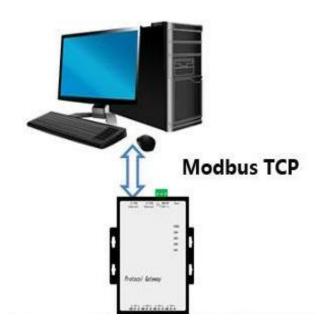
15. Fan and fan motor are easy to maintain;

After take out the air grid of the panel, we can easily take out the electric box, then the fan and fan motor can be easily taken out too.

16. The dimension of unit is only 590x590mm, which can be installed in a standard ceiling opening;

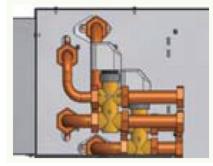


17. Easily interfaced with most widely used ModBus and proprietary supervisory system based on ModBus protocol(RS485);



18. Water valve can be installed outside the unit(as option);

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 themselves.



19. 4-pipe system as option

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, 4-pipe system 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 anther room need cooling, 5 star hotel always use this kind of fan coil unit.



20. More controllers for option

- 0~10V stepless thermostat can be connected.
- 3 speed thermostat can be connected.





0 ~10V thermostat

3-speed thermostat

21. DC motor as option;

Exellent performance -- brushless DC motor, high efficiency and energy saving

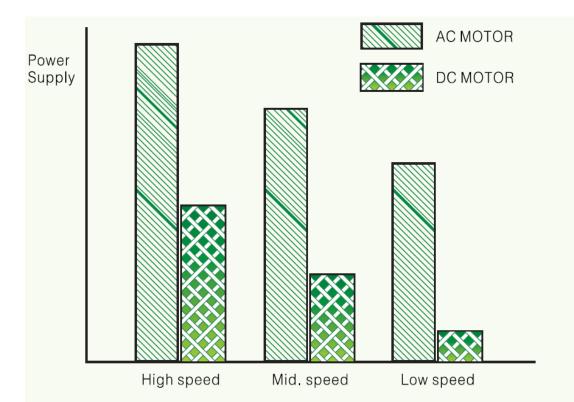
Panasonic brushless plastic package DC motor as option.

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 nt easily access to the inner motor.

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





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.

Four-way Cassette Type Fan Coil Unit (two-pipe system)

Model			W05F-	51K4M2	68K4M2	85K4M2	102K4M2	136K4M2	170K4M2	204K4M2	238K4M2	272K4M2
Power supply				AC 208~230V/1Ph/50Hz (60Hz as option)								
High speedAir flowMiddle speedLow speed		m³/h	550	680	880	1050	1380	1750	2050	2200	2720	
		m³/h	440	540	700	840	1100	1400	1640	1760	2040	
		m³/h	330	410	530	630	830	1050	1230	1320	1360	
Static pressure			Pa	0	0	0	0	0	0	0	0	0
Cooling capacity	TH	High speed	W	3000	3800	4900	5800	7500	9800	11000	12000	15000
	SH		W	2200	2850	3500	4250	5500	7150	8250	9100	11175
	TH	Middle speed	W	2550	3250	4150	4950	6400	8350	9350	10200	12450
	SH		W	1800	2350	2850	3500	4550	5950	6850	7650	9560
	TH	Low speed	W	2050	2600	3400	4000	5200	6750	7600	8300	10300
	SH		W	1400	1850	2300	2800	3600	4700	5450	6000	8400
Heating capacity	High speed		W	4700	5900	7600	9000	11600	15200	17100	18600	2400
	Middle speed		W	4000	5000	6450	7650	9850	12900	14550	15800	19900
	Low speed		W	3150	3950	5100	6050	7750	10200	11450	12450	15200
Noise level	evel High speed		dB(A)	40	42	42	44	46	47	50	51	53
Power input	ver input High speed		W	50	58	70	95	130	160	190	210	230
Coil				High efficient copper pipe to wear Hydrophilic aluminum coil								
Fan				Cross-flow								
Motor				AC motor; The motor insulation system shall be Class E								
Water flow rate			m³/h	0.51	0.65	0.83	0.99	1.28	1.67	1.87	2.04	2.55
Pressure drop			kPa	13	22	18	25	23	28	33	42	45
Coil connection & drain pipe			Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Dimension	Unit	L×W×H	mm	590×590×242	590×590×242	590×590×242	750×750×242	750×750×242	840×840×242	840×840×292	840×840×292	946×946×292
	Panel		mm	650×650×40	650×650×40	650×650×40	850×850×40	850×850×40	950×950×40	950×950×40	950×950×40	1050×1050×40
Weight	Unit (dra	ined by pump)	kg	22	23	26	27	29	30	31	33	36
	Panel		kg	5	5	7	7	8	8	9	9	11
				-								

Notes:

1.Cooling condition: indoor DB=27 °C (80.6°F), WB=19.5°C (67.1°F), EWT 7°C (44.6°F), temperature difference between EWT and LWT:5°C (41°F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C (69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C (140 $^{\circ}$ F), the same amount of water flow as with cooling.

3.Noise level is tested base on GB/T 19232-2003.

4. Air flow rate is tested when FCU operates in a dry state and 20° C (68°F) air inlet dry bulb temperature.

Four-way Cassette Type Fan Coil Unit (four-pipe system)

Model			W05F-	51K4M4	68K4M4	85K4M4	102K4M4	136K4M4	170K4M4	204K4M4	238K4M4	272K4M4
Power supply				AC 208~230V/1Ph/50Hz (60Hz as option)								
Air flow High speed Middle speed Low speed		m³/h	520	650	840	1000	1320	1660	1950	2090	2720	
		Middle speed	m³/h	420	510	670	800	1050	1330	1560	1670	2040
		Low speed	m³/h	310	390	500	600	790	1000	1170	1250	1360
Static pressure		Pa	0	0	0	0	0	0	0	0	0	
Cooling capacity	TH High speed		W	2950	3700	4800	5700	7350	9600	10800	11750	13200
	SH	riigii speeu	W	2150	2800	3450	4150	5400	7000	8100	8900	10000
	TH	Middle speed	W	2500	3200	4050	4850	6250	8200	9150	10000	11000
	SH		W	1750	2300	2800	3450	4450	5850	6700	7500	7630
	TH	Low speed W	W	2000	2550	3350	3900	5100	6600	7450	8150	9100
	SH		1350	1800	2250	2750	3550	4600	5350	5900	6600	
Heating capacity	High speed		W	3000	3750	4850	5750	7400	9700	10900	11850	13500
	Middle speed		W	2550	3200	4100	4850	6250	8200	9250	10050	11200
	Low speed		W	2000	2500	3250	3850	4950	6500	7300	7950	8750
Noise level	High speed		dB(A)	40	42	42	44	46	47	50	51	53
Power input	High speed		W	50	58	70	95	130	160	190	210	230
Coil				High efficient copper pipe to wear Hydrophilic aluminum coil								
Fan				Cross-flow								
Motor				AC motor; The motor insulation system shall be Class E								
Water flow rate		Chilled pipe	m³/h	0.5	0.64	0.81	0.97	1.25	1.64	1.83	2	2.2
water not	wrate		m³/h	0.33	0.42	0.54	0.64	0.82	1.08	1.21	1.32	1.5
		Chilled pipe	kPa	13	22	18	25	23	28	33	42	42
			kPa	8	13	11	15	15	19	23	26	30
Coil connection & drain pipe		Inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	
Dimension	Unit		mm	590×590×242	590×590×242	590×590×242	750×750×242	750×750×242	840×840×242	840×840×292	840×840×292	946×946×292
	Panel		mm	650×650×40	650×650×40	650×650×40	850×850×40	850×850×40	950×950×40	950×950×40	950×950×40	1050×1050×40
Weight	Unit (drained by pump)		kg	24	25	28	29	31	32	33	35	38
	Panel		kg	5	5	7	7	8	8	9	9	11
Notes:												

Notes:

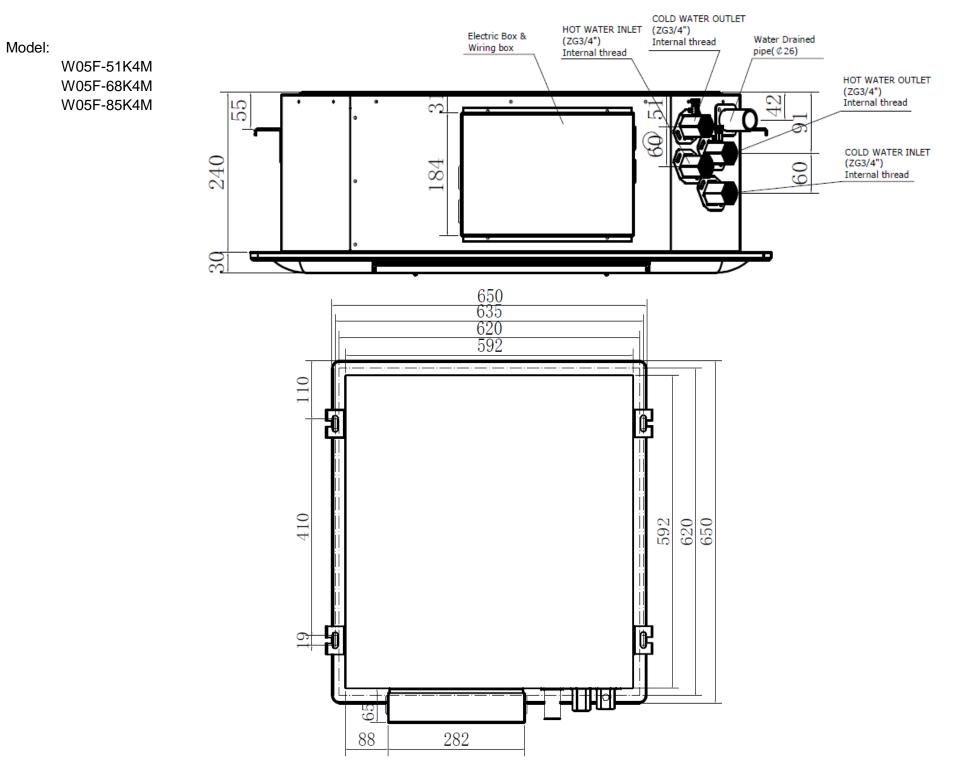
1. Cooling condition: indoor DB=27 $^{\circ}$ C (80.6 $^{\circ}$ F), WB=19.5 $^{\circ}$ C (67.1 $^{\circ}$ F), EWT 7 $^{\circ}$ C (44.6 $^{\circ}$ F), temperature difference between EWT and LWT:5 $^{\circ}$ C (41 $^{\circ}$ F).

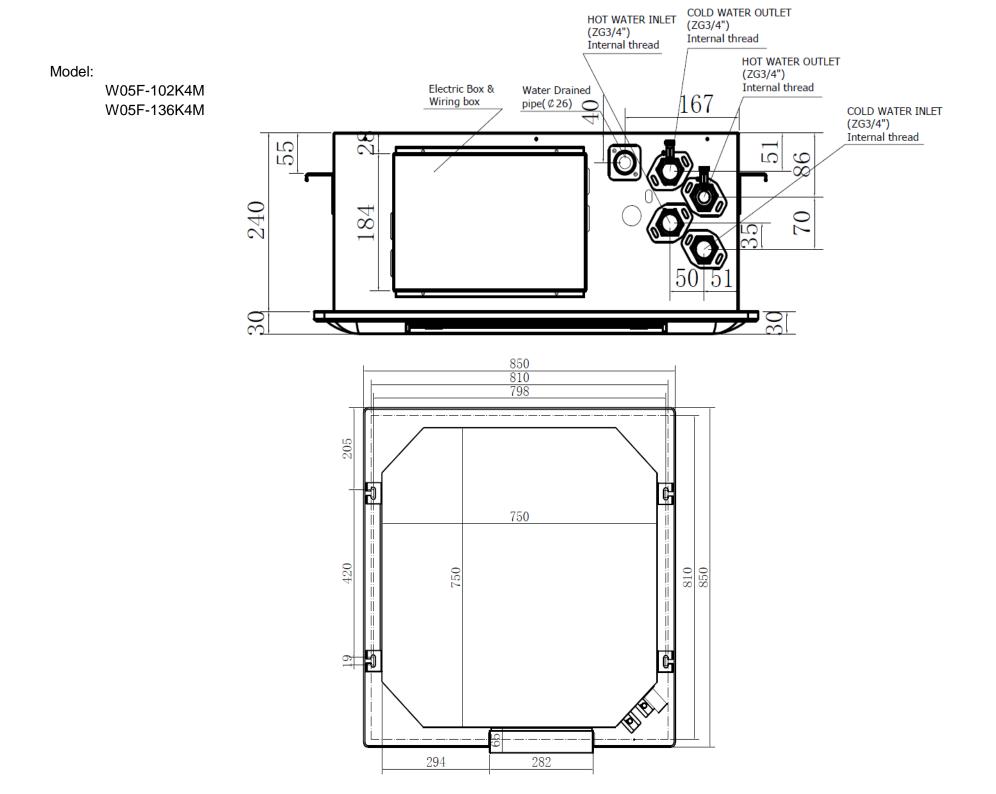
2.Heating condition: Indoor DB=21 $^{\circ}$ C (69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C (140 $^{\circ}$ F), the same amount of water flow as with cooling.

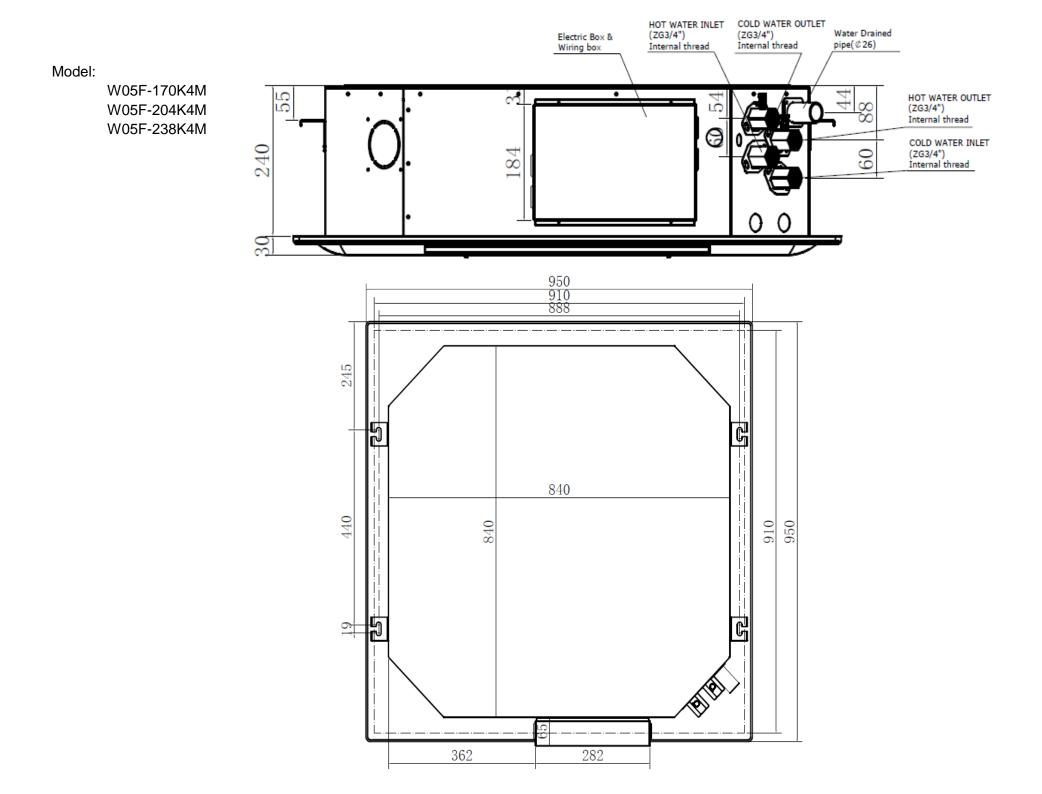
3.Noise level is tested base on GB/T 19232-2003.

4. Air flow rate is tested when FCU operates in a dry state and 20 °C (68°F) air inlet dry bulb temperature.

– Installation Dimension ––––

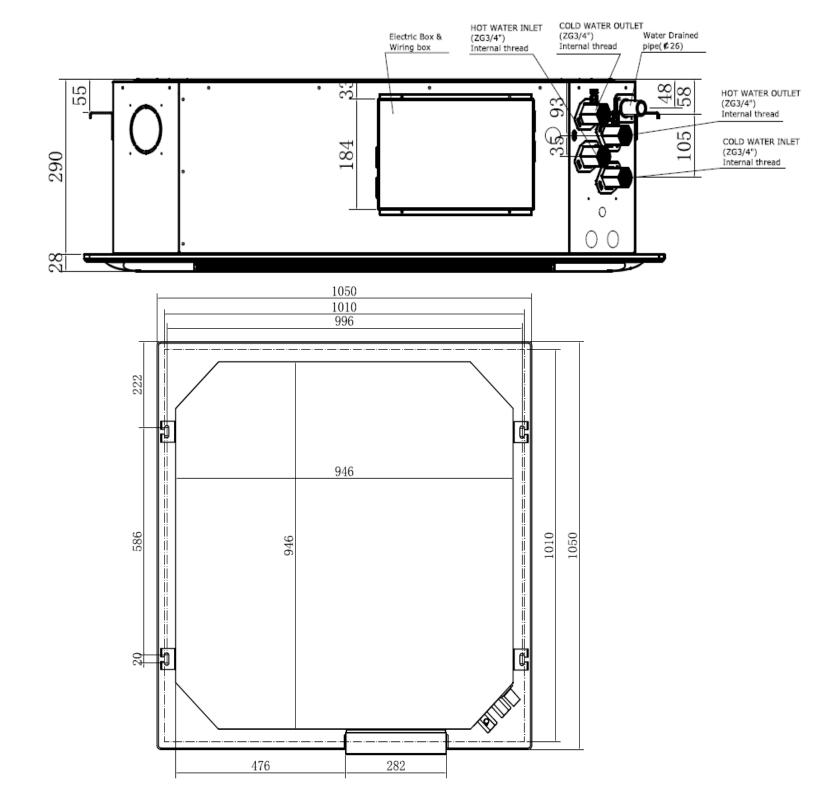








W05F-272K4M





Characteristic ——

- 1. Slim FCU body is specially designed for limited space;
- 2. The round air inlet and outlet, make the installation easily;
- 3. Equipped DC brushless motor to adjust the static pressure;
- 4. Reasonable structure design makes it more convenient to replace the filter and daily maintenance;
- 5. Condensated water drained pump as option to save the space ceiling;
- 6. The shell adopts aluminum zinc plate, which greatly improves the corrosion resistance;
- 7. Standard metal oil fume filter screen, with oil removal efficiency of 70%, especially suitable for kitchen;

Kitchen and Bathroom Ducted & Concealed Fan Coil Unit (two-pipe system)

	Model		W05F-	30KB	60KB							
F	ower sup	ply		AC 208~230V/1Ph/5	0Hz (60Hz as option)							
		High speed	m³/h	300	600							
Air flo	W	Middle speed	m³/h	180	360							
		Low speed	m³/h	100	200							
St	tatic pres	sure	Pa	12~30	12~30							
	TH	High speed	W	1800	3600							
	SH	riigii speeu	W	1301	2600							
Cooling	TH	Middle speed	W	1300	2630							
capacity	SH	Mildule Speed	W	950	1945							
	TH	Low opood	W	765	1550							
	SH	Low speed	W	485	990							
Heating	Hię	gh speed	W	2900	5800							
Heating capacity	Mid	dle speed	W	2080	4180							
capacity	Lo	w speed	W	1235	3490							
Noise level	Hię	gh speed	dB(A)	34	36							
Power input	Hię	gh speed	W	20	40							
	Coil			High efficient copper pipe to wear Hydrophilic aluminum of								
	Fan			Cross-flow								
	Motor			EC motor; The motor insulat	ion system shall be Class E							
W	ater flow	rate	m³/h	0.31	0.62							
P	ressure c	Irop	kPa	21	30							
Maximu	m working	g pressure	MPa	1.6	1.6							
Conde	nsated w	ater pipe	mm	26Ø	26ø							
Coil con	nection &	drain pipe	Inch	3/4"	3/4"							
Unit dime	nsion	L×W×H	mm	570×415×200	570×650×200							
	Net weig	ht	kg	17	22							

Notes:

1.Cooling condition: indoor DB=27 °C (80.6°F), WB=19.5°C (67.1°F), EWT 7°C (44.6°F), temperature difference between EWT and LWT:5°C (41°F).

2.Heating condition: Indoor DB=21 $^{\circ}$ C (69.8 $^{\circ}$ F), entering water temperature 60 $^{\circ}$ C (140 $^{\circ}$ F), the same amount of water flow as with cooling.

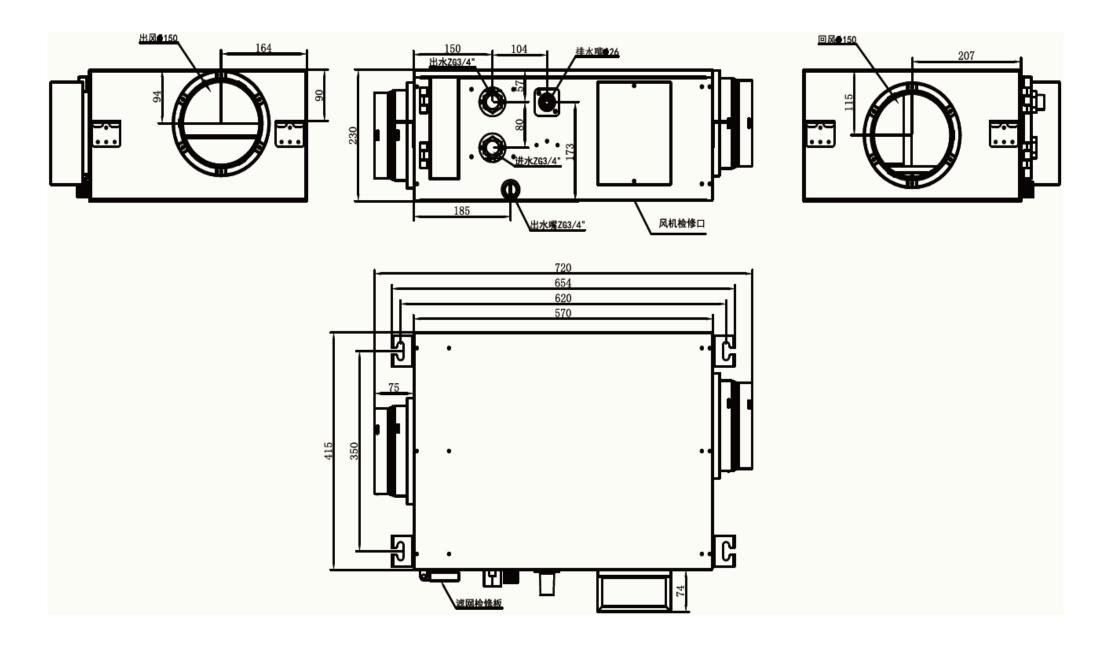
3.Noise level is tested base on GB/T 19232-2003.

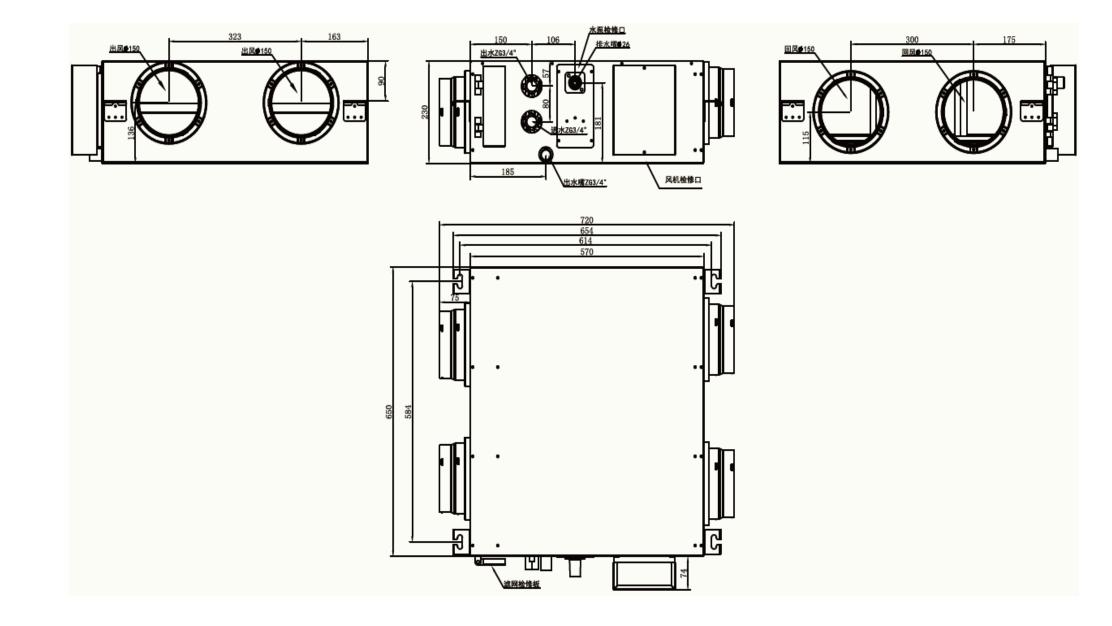
4. Air flow rate is tested when FCU operates in a dry state and 20° C (68°F) air inlet dry bulb temperature.

5.All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications.

- Installation Dimension ——

Model: W05F-30KB







Characteristic —

- 1. Classocal elegant design;
- 2. The standard static pressure is 60Pa, and unit can change static pressure from 30Pa to 100Pa;
- 3. Equipped brushless DC motor to adjust the static pressure;
- 4. Big diameter fan, large air volume, low noise;
- 5. Brushless DC Motor;
- 6. The fan kits and coils kit are easy to remover and maintain;
- 7. Stop valve/ball valve can be built-in unit, which can reduce the job of installation;
- 8. Auxiliary electric heating as option ;

Vertical High Rise Fan Coil Unit (2-PIPE SYSTEM)

-															
	Model		W05F-	102VD	136VD	170VD	204VD								
F	ower supp	bly		AC 208~230V/1Ph/50Hz (60Hz as option) /h 1020 1360 1700 2040											
	F	ligh speed	m³/h	1020	1360										
Air flow Middle speed			m³/h	612	816	1020	1224								
	L.	ow speed	m³/h	340	453	567	680								
Static pressure			Pa	60	60	60	60								
	TH L	ligh apood	W	6300	8100	10000	11500								
	SH	ligh speed	W	4490	5870	7100	8350								
Cooling	TH ,	/liddle speed	W	4500	5900	7200	8460								
capacity	SH "	vildale speed	W	3328	4364	5325	6257								
	TH .	aw an a a d	W	2200	2850	3500	4050								
	SH	ow speed	W	1300	1650	2050	2350								
LL C	High speed		W	10100	13000	16000	18400								
Heating capacity	Middl	le speed	W	7298	9393	11561	13295								
capacity	Low	/ speed	W	3550	4550	5600	6450								
Noise level	High	n speed	dB(A)	44	48	52	55								
Power input	High	n speed	W	190	220	280	440								
	Coil			High efficient copper pipe to wear Hydrophilic aluminum coil											
	Fan			Cross-flow											
	Motor			EC motor; The motor insulation system shall be Class E											
W	ater flow ra	ate	m³/h	1.07	1.38	1.71	1.96								
P	ressure dro	ор	kPa	27	30	35	40								
Maximu	m working	pressure	MPa	1.6	1.6	1.6	1.6								
Conde	nsated wat	ter pipe	mm	26Ø	26ø	26Ø	26ø								
Coil con	nection & d	drain pipe	Inch	3/4"	3/4"	3/4"	3/4"								
Unit dime	nsion	L×W×H	mm	506×50	8×1774	608×61	608×610×1774								
	Net weight	t	kg	76	81	87	95								
			-												

Notes:

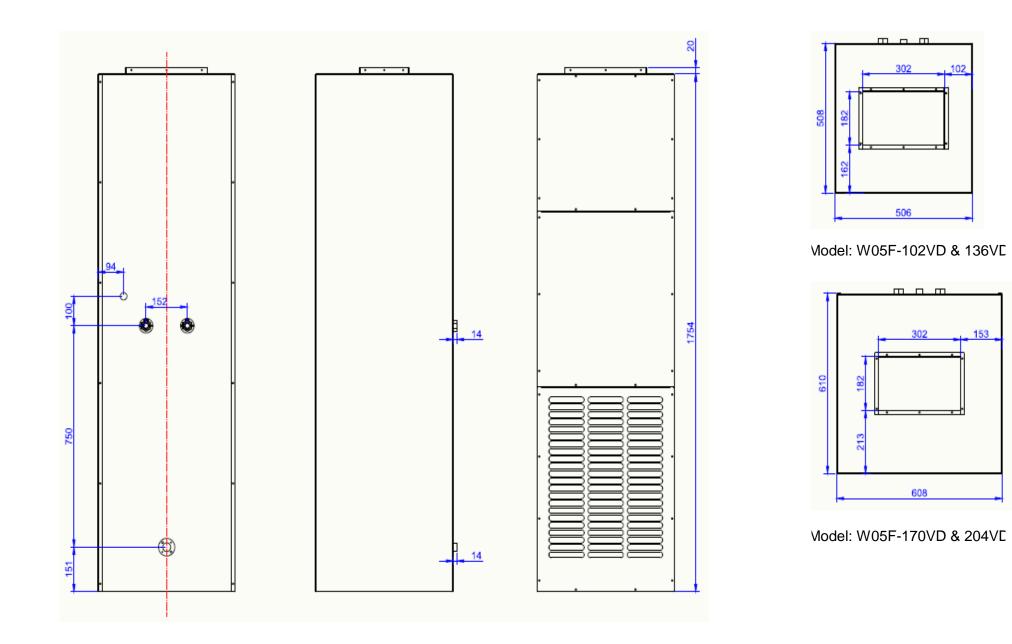
1.Cooling condition: indoor DB=27°C(80.6°F), WB=19.5°C(67.1°F), EWT 7°C(44.6°F), temperature difference between EWT and LWT:5°C(41°F).

2.Heating condition: Indoor DB=21°C(69.8°F), entering water temperature 60°C(140°F), the same amount of water flow as with cooling.

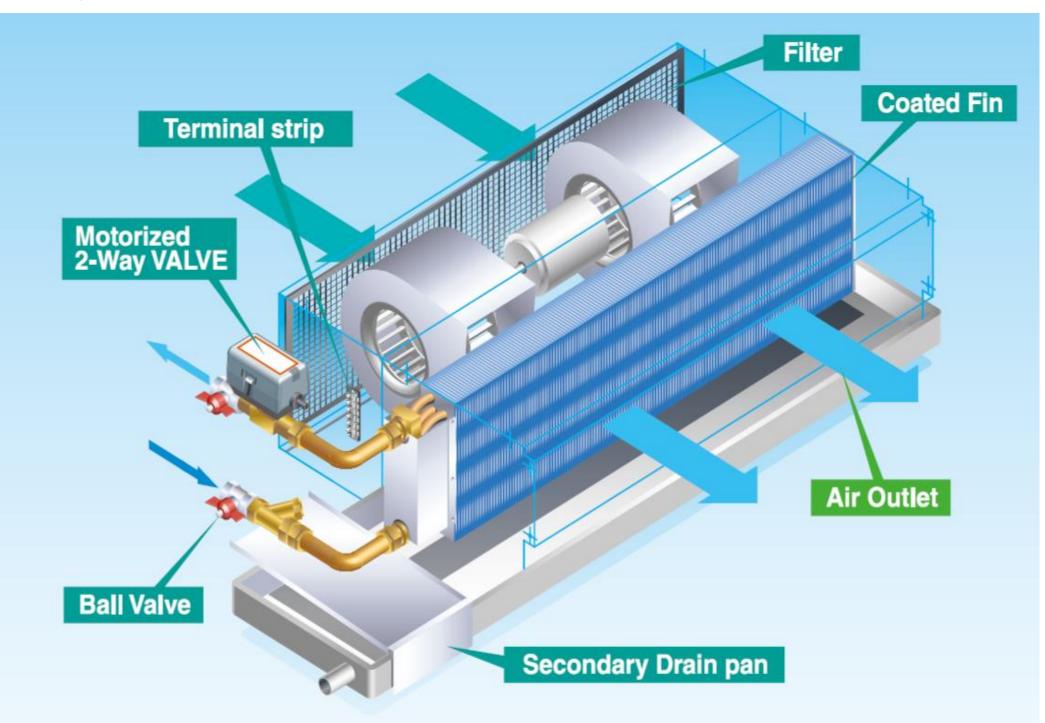
3.Noise level is tested base on GB/T 19232-2003.

4. Air flow rate is tested when FCU operates in a dry state and 20° C (68°F) air inlet dry bulb temperature.

5.All models, sizes, dimensions, and specifications are subject to change without prior notice, please refer to nameplates for the most accurate specifications.



Part name	Brand name	Origin
Coils	Withair	China
Fan	Yilida/Nantai/langdi	China
Motor	Kangbao/sanxiang	China
Water pan	Cheye/yanzi	China
Metal plate	Bao steel	China



— Optional Components —

Aluminum Filter





Motorized 2-way Valve



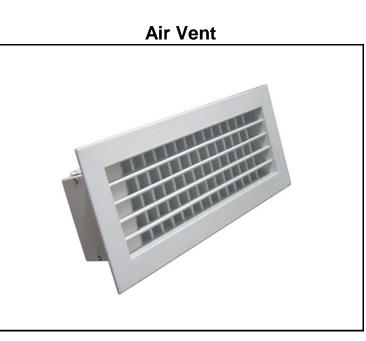


Strainer



Ball Valve





Coated Fin



Flow Switch

Stainless Steel Hose



Pressure gague



Heat Insulation



Special care must be taken to prevent paint, plaster, insulation or other foreign material from being deposited on the motor, blower wheels or coil. All warrantee are void if foreign material is deposited on the motor or blower wheels of any unit.

1)Hanging

Hang unit tightly with hanger bolts at accurately horizontal level at designated location, as shown by chart.

Adjust unit level by hanger-bolts so that drain will always run towards the drain connection. Failure to this may cause overflow of drain and drip on ceiling tile at cooling operation. Connect unit with supply and return air ducts after this level adjustment.

2)Water and Drain Pipe Connection

Water and drain pipe connection should be made to the unit in accordance with local codes and ordinances.

First, screw water pipes or valves into water inlet/outlet sockets of coil and check them to make sure that they are in proper operating position (The coil water supply connection should be that connection on the bottom of the coil).

Note: Make sure that all water and drain pipings are insulated after the connection works to prevent condensation and heat loss, and valves are installed over the drain pan.

Pre-Start Checklist

The following should be checked before the unit is ready for operation,

- All operating personnel read the manual carefully.
- Unit has been installed according to manufacturer's specifications.
- Condensate water drainage pipe is not blocked.
- Ensure no debris in drain pan, blower filters and casing.
- Unit's power supply and controls are properly connected and unit is properly grounded.
- Water piping is properly connected with no leakage.
- Blowers are free to turn, filters are properly installed.
- All the pipes are insulated, valves are opened and air vent is closed.
- Units are installed at appropriate level, draining successfully

Start-Up Procedure

Starting the Fan Coil Unit

- i) Turn on the switch of water pump.
- ii) Start water chiller.
- iii) Operate the fan coil unit by turning on the fan and set the control switch to get the desired speed.
- iv) Inspect the duct and piping condition and rectify problem (e.g. vibration, noise, etc) if necessary.

Coil Venting

When water is first introduced into a coil, air is sometimes trapped in the coil tubing. This trapped air will reduce cooling capacity and create "bubbling" or "clanking" noise within the units. To release air trapped inside the coil, first remove the cover of the air vent and then press its head to release air from the air vent opening until a steady stream of water appears. Close the cover.

—— Servicing Methods ——

Fans

• A check on the fan/motor assembly is advisable to ascertain if any overheating of the motor is occurring and if the fan impeller is rotating freely and has not sustained any damages.

• If any overheating is occurring, check if the full load current of the motor is within the nameplate rated value, the impeller is rotating freely and that there is no obstruction upstream or downstream of the fan causing a high resistance with consequent lack of airflow.

• Check the security of the fan fixing bolts.

Colls

• Coils should be inspected, meanwhile as cleaning the filter, to ascertain if any solids or foreign matter has accumulated in between fins and that the coil connections are free from leaks.

• Should the coil found to be bloacked, the coil should be cleaned by using a soft brush and a mild solution of detergent. Great care must be taken not to damage the fins, not to introduce

liquid into fan windings or to soak the insulation. Vacuum cleaner and compressed air can be used to remove dirt from heat exchanger.

• Should the fins become contaminated too frequently it is advisable to check the air filter to ensure it is functioning correctly.

Air Filters

• The purpose of an air filter is to get rid of hazardous material such as dust, coal ash, pollen and other unwanted materials. Dirty filters will not only affect filtration, but also reduce the air

volume and hence, affecting the cooling or heating capability.

• Filters should be checked and cleaned at 3-month cycle basis. However filters should be cleaned more often when system is running at high load or dirty environment. The method of cleaning:

- Use a cleaner to clear dust from dirty filters
- Wash dirty filters with water
- The filter must be disinfected periodically, not less than 2 times a year to prevent forming of bacteria.

• It is prohibited to operate the unit without any filter to prevent rapid blockage of heat exchanger by dust and as a result, poor heat transfer. Thus, it is recommended to install filter at the return air duct to maintain cleanliness of aluminum fins for better and consistent heat exchange.

Drain Pan

- Drain pan must be checked and cleaned before unit operation to ensure it drains water properly.
- The condensate tray may be removed for cleaning independent of the coil and should be inspected annually.
- Should any debris be found, the condensate tray should be thoroughly cleaned. Also ensure the drain connection is free from obstructions.

Operating Range

• The highest working water pressure should not be greater than 2.0MPa, whereas the lowest working water pressure should be higher than the water pressure drop of the water system.

• Entering water temperature during summer should not be lower than 3°C and not higher than 65°C during winter.

The water must be treated and ensure it is clean for optimum performance. Otherwise, it may lead to system malfunction, corrosion and breeding of bacteria.

• It is not recommended to adopt control that allows flowing of cool water through heat exchanger with fan motor idle. This will cause extensive condensation not only on the heat exchanger but on the surface of casing due to very low air temperature in the unit. If the control do not prevent chilled water flowing through heat exchanger during idling of fan motor, it is recommended to close the water circuit through manual hand valve.

• When the unit is not going to be used for long period, the water pipes and heat exchanger should be filled with water to reduce internal corrosion. If the unit is going to be idle throughout the winter, the water pipe should be drained completely and anti-freeze procedure should be implemented to prevent water pipe breakages.

—— Standard Maintenance Guide —— The maintenance guide below is the general guide line. The contents may change according to the running/installation conditions.

ltem	Task Description								
Air filter	Clean or renew. (Part of the three monthly								
	(nominal) maintenance)								
	Vacuum and clean internally								
	Condensate tray -								
	clean and check drainage								
	Inspect fan impeller(s) and bearings for wear								
Unit cabinet and	and movement								
	Check heater element electrical connections for								
component	tightness								
	Check all wiring for insulation damage and								
	tightness of connections								
	Inspect unit suspension fittings for secureness								
	and signs of failure								
Earth wiring and	Check connections								
connections									
Fan(s)	Check for noise or vibration								
Condensate pump	Carry out maintenance								
(if fitted)	and check operation								
Electrical Heater (if fitted)	Overload setting								
	Cooling ON/OFF temperature control								
Control functions	Heating ON/OFF temperature control								
	Temperature set point								
Finalising									
preventive	Restore temperature control to its normal value								
maintenance									
checks	Record return air temperature								

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		Alpspection-Adjustment						0	Rep	a	:e	Par	ts			Wa	shi	ing		•	Rep	ad	æm	en	t	Cleaning																				
Hours	5000h 10000					00h	ih 15000h								200	001	h			250	OOh			3	8000)0h			ş	350	00h				400)00h	45000h									
Fan												C	כ					0	5					[]					C	J					٦				
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Insulation																											~																			
Casing																																														
Terminal Board]			[C	כ		C			C	5					[C]		•	,		C	נ		C	ו		٢						[
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4. Maintenance of motor shall be conducted by professionals.

—— Troubleshooting ——

When any malfunction of the fan coil unit is noted, immediately switch off the supply to the unit.

Check for the following fault conditions and causes for some simple troubleshooting tips.

Faults	Possible Causes	Remedial Actions								
		Check supply and wiring continuity								
		Check motor for fault and renew if necessary								
	Fan and motor failure	Check for fan free rotation, bearings for wear and adequate clearance								
	ran and motor failure	Check fan resistance for stall conditions in ducts etc								
No air flow		Check for capacitor faulty and renew if necessary								
		Check for power supply transformer and renew if necessary								
	Duct blockage	Clear blockage								
	Damper(s) partially closed	Reposition damper(s) to give correct air flow								
	Fan impeller loose on its shaft	Renew fan								
	Dirty air filter	Clean or renew the filter								
	Blocked ducting	Clear blockage								
	Doors and windows opened	Keep the conditioned area closed								
Low air flow	Regulated temperature is not high	Change the right temperature								
	Air duct leakage	Repair leakage point								
	Duct resistance exceeds design	Increase fan speed setting at the 3-speed switch								
High air flow	Air duct leakage	Repair leakage point								
	Missing air filter	Install air filter								
	Duct resistance below design	Lower fan speed setting at the 3-speed switch								
Discharge cirflew has had	Odour may be caused by cigarettes,									
Discharge airflow has bad	smoke particles, perfume etc, which	Coil Cleaning								
odour	might have adhered onto coil surface									
	Water chilling plant faulty	Repair or renew if necessary								
	Temperature setting too high	Lower setting temperature								
	Thermostat faulty	Replace if necessary								
Insufficient cooling capacity	Flow control valve fault	Replace new flow control valve								
	Airlock present in system	Check system design - correct as necessary								
	Water system blockage	Clear blockage								
	Strainer choked	Replace new strainer								
	Blocked drain line	Clear blockage								
	Pump (if fitted) inoperative or faulty	Repair or renew if faulty. Refer to manufacturer's instructions								
Condensate Leak	Dirty air filter	Clean or renew air filter								
	High lateral resistance	Check system design - correct as necessary								
	Leaking condensate tray	Repair or renew the condensate tray								
Condensation on the front air	Caused by air humidity after an									
grille	extended long period of time									
grine	Temperature setting too low	Increase setting temperature with high fan speed								

– Delivery & Packaging ——

- 100% test before deliverying products.
- Products catalogue, installation & operation manual will be sent together.
- Tracking number will be sent to customer as soon as we ship the products.
- Item shipped in 25 working days against payment depends on the quantity.
- Four steps of pakacges, plastic film, foam, carton and plywood for stable transporation.
- Ocean shipping, railway shipment and air transportation are acceptable according to customer demand.

— You May Like ——



Feel free to contact us to receive further information about our products and energy solutions.

Notes:

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