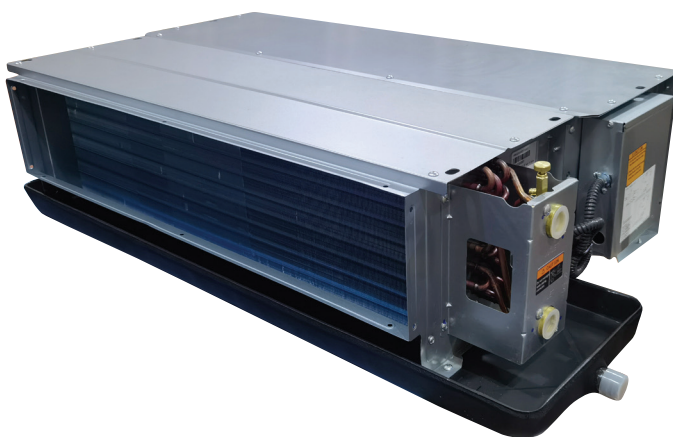


## Horizontal Type Chiller Water Fan Coil Unit with DCBL Motor

FWW-V (Air flow: 200~1400CFM)

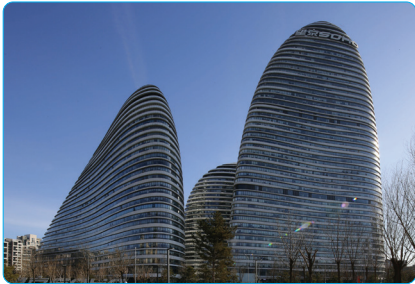
FWW-T (Air flow: 1000~2000CFM)

FUW-FE (Air flow: 2000~6000CMH)



# Introduction

For years, DAIKIN has been providing the society with multiple types of high quality air handling systems and has made remarkable achievements in related fields. Integrating the advanced air conditioner manufacturing technology and process of DAIKIN, DAIKIN fan coil units showcase more compact structure, more convenient installation and maintenance, more efficient performance and lower noises, and have been widely used in public buildings, hospitals, office buildings, hotels, high-end residences, etc.



Galaxy SOHO (Beijing)



Palm Jumeirah (Dubai, UAE)



White Swan Hotel (Guangzhou)

In this community, DAIKIN is renowned for its complete product series, covering the full range of air-conditioning, purifying and refrigeration equipment. More importantly, DAIKIN boasts the most complete fan coil series and realizes product experience covering units, valves and controls. It is easier to use for customers.

# About FWW-V/T fan coil unit

FWW-V/T series fan coil units are manufactured in ISO and OHSAS certified factory.

These units are AHRI certified.

Our professional software can provide the precise selection based on customer required air flow to realise exact match.



ISO 9001



ISO 14001



ISO 45001



AHRI

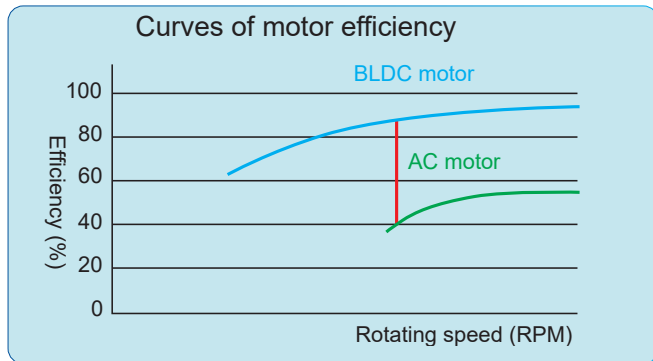
# CONTENTS

DCBL FCU Benefit .....	03	Air flow curve .....	22
FWW-V performance .....	04	Wiring diagram .....	25
FWW-T performance .....	11	Guide specification .....	28
FUW-FE performance .....	17		

# DCBL FCU Benefit

The efficiency of DCBL motor is much higher than AC motor. Its stepless speed adjustment can make a quick response to indoor load demand and then change the speed quietly. This product is energy-saving, environmentally friendly, quiet, and comfortable, and can be widely used in villas, apartments, high-end hotels, hospitals, office buildings, and other public places.

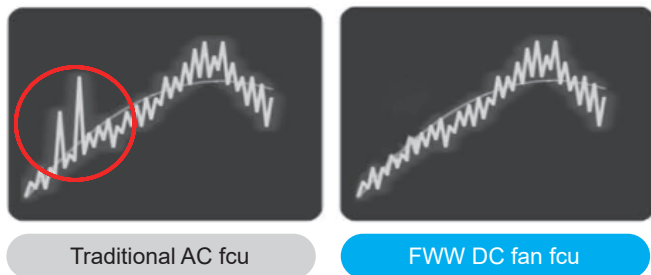
## ► High efficiency and Energy saving



Compared with a traditional AC motor, a permanent magnet DC motor greatly improves the efficiency. The average power consumption of this DC motor is only 50–70% of that of an AC motor. With automatic stepless regulation, a unit using a permanent magnet DC motor can better respond to load changes and further reduce energy consumption. Users can set the air flow and fan speed based on the demands.

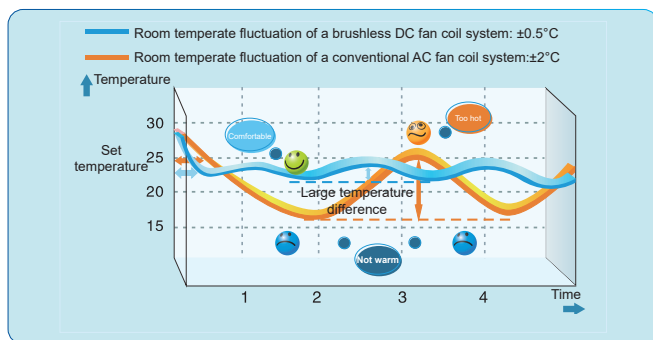
The motor protection grade is IP44 for FWW-V series, which means that the motor features better dust-proof and waterproof performance and can ensure efficient and reliable operation of the unit in a long term.

## ► Low noise



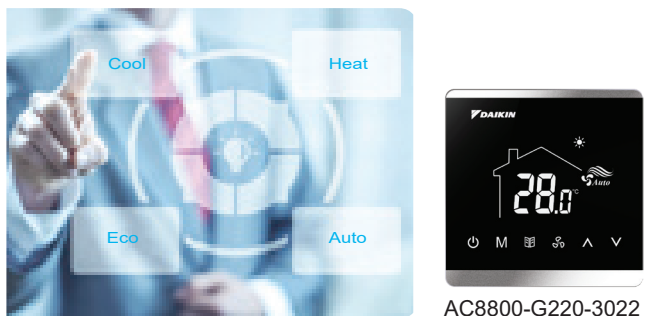
The unit realizes the stepless regulation of air flow in a wide range. It boasts lower-speed operation, lower noise under partial load, and small electromagnetic noise in the low frequency band. It excels at noise quality.

## ► More comfortable



The unit adopts advanced control components and technologies, and uses a proportional logic to control motor output to achieve a temperature control precision of  $\pm 0.5^{\circ}\text{C}$ . It solves the problem of unstable temperature of conventional air conditioners and creates a comfortable indoor environment. The stepless speed regulation technology excels at noise quality and provides customers with a quieter environment.

## ► Intelligent control



The unit supports 0–10 V input signals for control, It can couple with DAIKIN dedicate 0~10V thermostat to realizes stepless adjustment of air flow, and freely sets the fan speed. With extra 3-speed modular, it is compatible with traditional 3-speed thermostat.

# FWW-V Horizontal Ceiling Concealed Fan Coil Unit

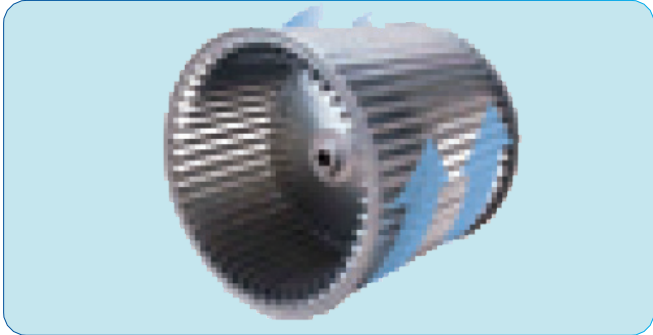
## Product features

Our FWW-V series fan coil adopts efficient heat exchange design and standardized production process. With the advanced motor control technology, the precise operation of the fan coil unit is guaranteed. All components of the unit are subject to selection of quality material and strict inspection to provide intelligent control products and centralized control solutions. The unit widely applies to all kinds of public, commercial and civil buildings.



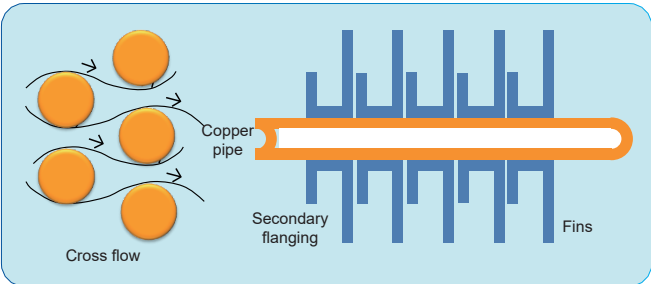
### ► Ingenious and thin body

The unit, light, shapely, thin and compact, can be even mounted in a narrow ceiling, occupying less mounting space. With a hidden design, the unit can match with a variety of decoration modes and perfectly fix to different architecture styles.



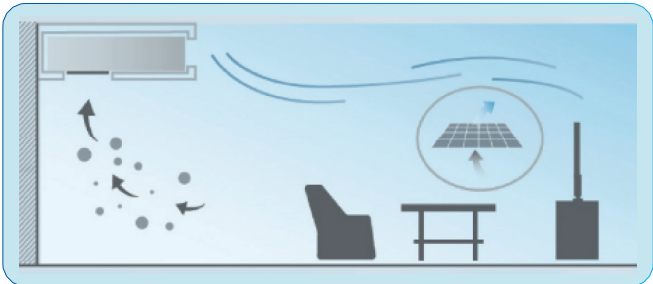
### ► Quiet operation, comfort and enjoyment

The unit is equipped with a low-noise, wide-impeller, and low-speed fan. Moreover, each fan is checked and inspected before delivery. The interior of the fan is adhered with efficient damping and heat insulating material to ensure quiet and efficient operation of the unit.



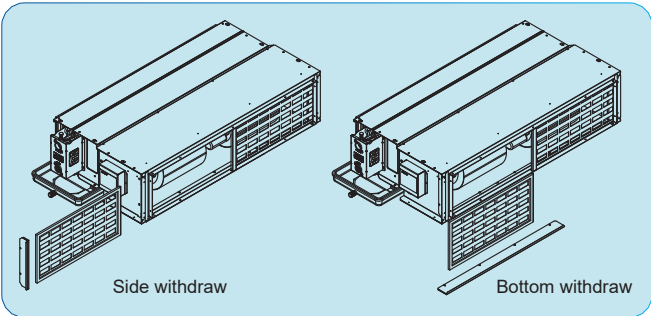
### ► Efficient heat exchange and excellent performance

By covering quality copper pipes with hyperbolic louver type hydrophilic aluminum fins and combining a quasi-counter flow design, the unit has great performance in heat exchange. The wide-impeller design lowers the noise of the unit.



### ► Abundant configuration, safety and reliability

The unit may be equipped with a lift pump, a PTC electric heater, an air purification component, or other devices to meet a variety of function requirements, and be assisted by an intelligent control mode, thus being flexible and safe.



### ► Easy maintenance

With unique design, the filter can be withdraw from either bottom or side. Users can clean or replace the filter much easier.



### ► Authoritative certificate

For the whole series, we comply with AHRI 440 Standard. For district cooling unit. Eurovent certificate is granted.

## Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
F	W	W	1	0	0	0	V	A	N	R	E	F	P	A	0	U	E

- ▶ Sales region: E: for export
- ▶ Power supply:  
U-220V-240V~/50Hz/60Hz
- ▶ E-heater power: 0-None 1-1kW 2-2kW .....\*
- ▶ Drain pan:  
A-Standard drain pan  
E-SUS drain pan  
C-Extended drain pan  
G-Extended SUS drian pan
- ▶ Motor type: "P"-DCBL motor with 0-10V control  
"T"-DCBL motor with 3-speed module
- ▶ Filter:  
F-8mm nylon filer  
H-25mm AL filter  
G-25mm G4 filter
- ▶ Return air plenum:  
E-Back type (5mmXPE)  
F-Back type (15mmPU)
- ▶ Pipe orientation: (Facing to the air flow)  
L-Left  
R-Right
- ▶ Rated ESP code: 50Pa
- ▶ Coil type:  
C-3rows  
F-4rows  
H-3rows+1row  
A-4rows (District cooling)
- ▶ Series: V-V series
- ▶ Unit model: 200 300 400.....1400 CFM
- ▶ Horizontal type ceiling concealed FCU

\*E-heater option:

E-heater power	1kw	2kw	3kw	4kw
FWW200V	√			
FWW300V	√			
FWW400V	√	√	√	
FWW500V	√	√	√	
FWW600V	√	√	√	
FWW700V	√	√	√	
FWW800V	√	√	√	
FWW1000V	√	√	√	
FWW1200V		√	√	√
FWW1400V			√	√

Remark: The E-heater may effect the unit air flow, please refer to the selection software for more details.

# FWW-V Horizontal Ceiling Concealed Fan Coil Unit

## Standard Unit / 2-Pipe / 3 Rows

	Model	FWW200VC	FWW300VC	FWW400VC	FWW500VC	FWW600VC	FWW700VC	FWW800VC	FWW1000VC	FWW1200VC	FWW1400VC
Air Flow	m <sup>3</sup> /h	350	530	660	875	985	1175	1400	1710	1925	2240
	CFM	206	312	388	515	579	691	824	1006	1132	1318
ESP	Pa	50									
	in.wg.	0.2									
Total Cooling Capacity	W	2150	3230	3960	5070	5840	6480	8330	9160	10520	11760
	Btu/h	7336	11021	13512	17299	19926	22110	28422	31254	35894	40125
Water Flow Rate	m <sup>3</sup> /h	0.37	0.55	0.68	0.87	1	1.11	1.43	1.57	1.8	2.02
	USGPM	1.63	2.42	2.99	3.83	4.40	4.88	6.29	6.91	7.92	8.89
Water Pressure drop	kPa	18	19	19	28	24	33	38	39	28	41
	in.wg.	72	76	76	112	96	133	153	157	112	165
Rated Power Input	W	29	40	50	77	87	109	119	159	179	198
Rated Running Current	A	0.25	0.33	0.41	0.6	0.69	0.83	0.9	1.17	1.33	1.6
Sound Pressure Level	dB(A)	38.5	38.5	41	42.5	43	46	44	46.5	47	48
Filter	Type	8mm Nylon Filter									
	Access	Both Side & Bottom Withdraw									
Coil	Row No.	3									
	Working Pressure	2.0 MPa									
	Material	Copper tube & Hydrophilic Aluminum									
	Water Volume	L	0.48	0.68	0.74	0.83	0.93	0.99	1.35	1.4	1.62
Fan	Type	Galvanized Steel Centrifugal Fan ( Forward)									
	Quantity	1	2	2	2	2	2	3	3	4	4
Motor	Type	Brushless DC motor									
	Quantity	1	1	1	1	1	1	2	2	2	2
	IP/Insulation	IP44 / ≥B									

### NOTES:

- 1) All performance is tested under 230V~/50Hz, High speed and unit couple with return air plenum and 8mm nylon filter.
- 2) The air flow, power input, sound data is tested on standard air condition without water in coil.
- 3) The capacity is tested under below condition:  
---Cooling capacity: Entering air DB/WB: 27°C/19.5°C, water inlet 7°C, water outlet 12°C
- 4) The sound pressure is measured according to GB/T 19232-2019 (1m below the unit bottom),
- 5) DC fcu can meet customer requirement exactly by adjusting input fan control voltage. Please refer to the software for more details.

# FWW-V Horizontal Ceiling Concealed Fan Coil Unit

## Standard Unit / 2-Pipe / 4 Rows

Model		FWW200VF	FWW300VF	FWW400VF	FWW500VF	FWW600VF	FWW700VF	FWW800VF	FWW1000VF	FWW1200VF	FWW1400VF
Air Flow	m <sup>3</sup> /h	350	530	660	875	985	1175	1400	1710	1925	2240
	CFM	206	312	388	515	579	691	824	1006	1132	1318
ESP	Pa	50									
	in.wg.	0.2									
Total Cooling Capacity	W	2620	3880	4560	5380	6480	7150	9060	10720	11350	12490
	Btu/h	8939	13239	15559	18357	22110	24396	30913	36577	38726	42616
Water Flow Rate	m <sup>3</sup> /h	0.45	0.67	0.78	0.92	1.11	1.23	1.55	1.84	1.95	2.14
	USGPM	1.98	2.95	3.43	4.05	4.88	5.41	6.82	8.10	8.58	9.42
Water Pressure drop	kPa	32	38	32	27	41	36	33	41	40	40
	in.wg.	129	153	129	108	165	145	133	165	161	161
Rated Power Input	W	29	40	50	77	87	109	119	159	179	198
Rated Running Current	A	0.25	0.33	0.41	0.6	0.69	0.83	0.9	1.17	1.33	1.6
Sound Pressure Level	dB(A)	38.5	38.5	41	42.5	43	46	44	46.5	47	48
Filter	Type	8mm Nylon Filter									
	Access	Both Side & Bottom Withdraw									
Coil	Row No.	4									
	Working Pressure	2.0 MPa									
	Material	Copper tube & Hydrophilic Aluminum									
	Water Volume	L	0.64	0.91	0.98	1.1	1.25	1.32	1.8	1.87	2.16
Fan	Type	Galvanized Steel Centrifugal Fan ( Forward)									
	Quantity	1	2	2	2	2	2	3	3	4	4
Motor	Type	Brushless DC motor									
	Quantity	1	1	1	1	1	1	2	2	2	2
	IP/Insulation	IP44 / ≥B									

### NOTES:

- 1) All performance is tested under 230V~/50Hz, High speed and unit couple with return air plenum and 8mm nylon filter.
- 2) The air flow, power input, sound data is tested on standard air condition without water in coil.
- 3) The capacity is tested under below condition:  
 ---Cooling capacity: Entering air DB/WB: 27°C/19.5°C, water inlet 7°C, water outlet 12°C
- 4) The sound pressure is measured according to GB/T 19232-2019 (1m below the unit bottom),
- 5) DC fcu can meet customer requirement exactly by adjusting input fan control voltage. Please refer to the software for more details.

# FWW-V Horizontal Ceiling Concealed Fan Coil Unit

## Standard Unit / 4-Pipe / 3+1 Rows

	Model	FWW200VH	FWW300VH	FWW400VH	FWW500VH	FWW600VH	FWW700VH	FWW800VH	FWW1000VH	FWW1200VH	FWW1400VH
Air Flow	m <sup>3</sup> /h	350	530	660	875	985	1175	1400	1710	1925	2240
	CFM	206	312	388	515	579	691	824	1006	1132	1318
ESP	Pa	50									
	in.wg.	0.2									
Total Cooling Capacity	W	2160	3270	3860	5070	5700	6470	8080	9140	10280	11280
	Btu/h	7370	11157	13170	17299	19448	22076	27569	31186	35075	38487
Water Flow Rate	m <sup>3</sup> /h	0.37	0.56	0.66	0.87	0.98	1.11	1.39	1.57	1.76	1.93
	USGPM	1.63	2.46	2.90	3.83	4.31	4.88	6.12	6.91	7.74	8.49
Water Pressure drop	kPa	21	27	20	33	27	34	34	41	29	37
	in.wg.	84	108	80	133	108	137	137	165	116	149
Heating Cooling Capacity	W	2090	3000	3520	4590	4630	5730	7190	7920	9030	9800
	Btu/h	7131	10236	12010	15661	15798	19551	24532	27023	30810	33438
Heating Water Flow Rate	m <sup>3</sup> /h	0.18	0.26	0.3	0.39	0.4	0.49	0.62	0.68	0.77	0.84
	USGPM	0.79	1.14	1.32	1.72	1.76	2.16	2.73	2.99	3.39	3.70
Heating Water Pressure drop	kPa	32	13	19	30	32	19	31	34	23	29
	in.wg.	129	52	76	120	129	76	124	137	92	116
Rated Power Input	W	29	40	50	77	87	109	119	159	179	198
Rated Running Current	A	0.25	0.33	0.41	0.6	0.69	0.83	0.9	1.17	1.33	1.6
Sound Pressure Level	dB(A)	38.5	38.5	41	42.5	43	46	44	46.5	47	48
Filter	Type	8mm Nylon Filter									
	Access	Both Side & Bottom Withdraw									
Coil	Row No.-Cooling	3									
	Row No.-Heating	1									
	Working Pressure	2.0 MPa									
	Material	Copper tube & Hydrophilic Aluminum									
Water Volume-Cooling	L	0.48	0.68	0.74	0.83	0.93	0.99	1.35	1.4	1.62	1.79
	L	0.16	0.23	0.25	0.28	0.31	0.33	0.45	0.47	0.54	0.6
Fan	Type	Galvanized Steel Centrifugal Fan ( Forward)									
	Quantity	1	2	2	2	2	2	3	3	4	4
Motor	Type	Brushless DC motor									
	Quantity	1	1	1	1	1	1	2	2	2	2
	IP/Insulation	IP44 / ≥B									

### NOTES:

- 1) All performance is tested under 230V~/50Hz, High speed and unit couple with return air plenum and 8mm nylon filter.
- 2) The air flow, power input, sound data is tested on standard air condition without water in coil.
- 3) The capacity is tested under below condition:
  - Cooling capacity: Entering air DB/WB: 27°C/19.5°C, water inlet 7°C, water outlet 12°C
  - Heating capacity: Entering air DB: 21°C, water inlet 60°C, water outlet 50°C
- 4) The sound pressure is measured according to GB/T 19232-2019 (1m below the unit bottom),
- 5) DC fcu can meet customer requirement exactly by adjusting input fan control voltage. Please refer to the software for more details.

# FWW-V Horizontal Ceiling Concealed Fan Coil Unit

## District Cooling Unit / 2-Pipe / 4 Rows

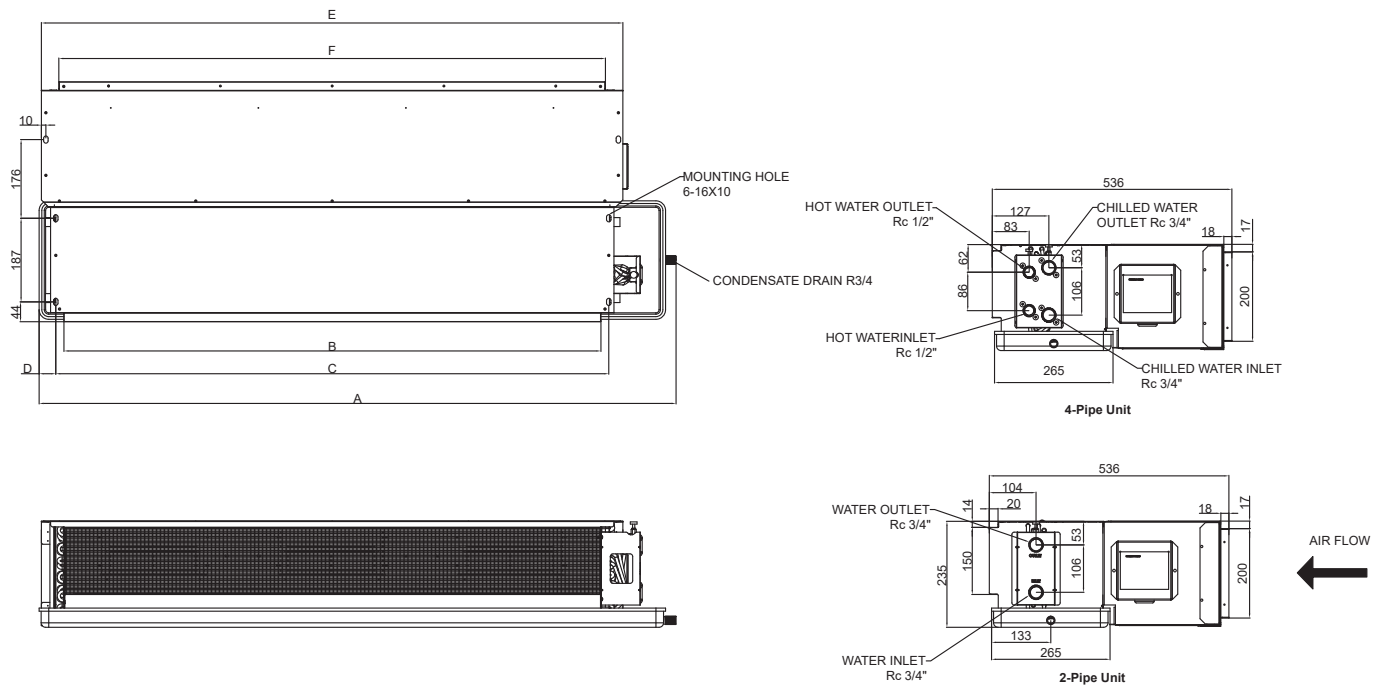
Model		FWW200VA	FWW300VA	FWW400VA	FWW500VA	FWW600VA	FWW700VA	FWW800VA	FWW1000VA	FWW1200VA	FWW1400VA
Air Flow	m <sup>3</sup> /h	350	530	660	875	985	1175	1400	1710	1925	2240
	CFM	206	312	388	515	579	691	824	1006	1132	1318
ESP	Pa	50									
	in.wg.	0.2									
Total Cooling Capacity	W	1890	2720	3310	4070	4820	5480	6640	7780	9020	10580
	Btu/h	6449	9281	11294	13887	16446	18698	22656	26545	30776	36099
Water Flow Rate	m <sup>3</sup> /h	0.18	0.26	0.32	0.39	0.46	0.52	0.63	0.74	0.86	1.01
	USGPM	0.79	1.14	1.41	1.72	2.02	2.29	2.77	3.26	3.78	4.44
Water Pressure drop	kPa	21	15	23	17	25	31	19	27	26	37
	in.wg.	84	60	92	68	100	124	76	108	104	149
Rated Power Input	W	29	40	50	77	87	109	119	159	179	198
Rated Running Current	A	0.25	0.33	0.41	0.6	0.69	0.83	0.9	1.17	1.33	1.6
Sound Pressure Level	dB(A)	38.5	38.5	41	42.5	43	46	44	46.5	47	48
Filter	Type	8mm Nylon Filter									
	Access	Both Side & Bottom Withdraw									
Coil	Row No.	4									
	Working Pressure	2.0 MPa									
	Material	Copper tube & Hydrophilic Aluminum									
	Water Volume	L	0.64	0.91	0.98	1.1	1.25	1.32	1.8	1.87	2.16
Fan	Type	Galvanized Steel Centrifugal Fan ( Forward)									
	Quantity	1	2	2	2	2	2	3	3	4	4
Motor	Type	Brushless DC motor									
	Quantity	1	1	1	1	1	1	2	2	2	2
	IP/Insulation	IP44 / ≥B									

**NOTES:**

- 1) All performance is tested under 230V~/50Hz, High speed and unit couple with return air plenum and 8mm nylon filter.
- 2) The air flow, power input, sound data is tested on standard air condition without water in coil.
- 3) The capacity is tested under below condition:  
 ---District Cooling capacity: Entering air DB/WB: 24°C/18°C, water inlet 5.5°C, water outlet 14.5°C.
- 4) The sound pressure is measured according to GB/T 19232-2019 (1m below the unit bottom),
- 5) DC fcu can meet customer requirement exactly by adjusting input fan control voltage. Please refer to the software for more details.

# FWW-V Horizontal Ceiling Concealed Fan Coil Unit

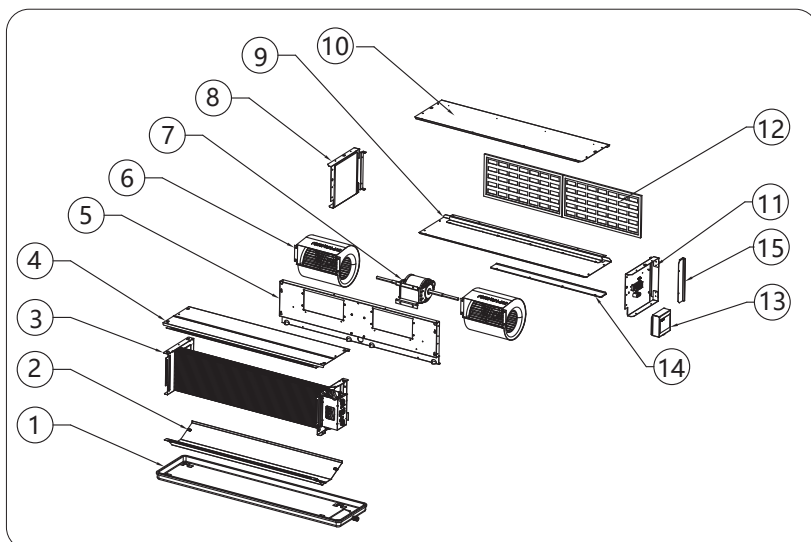
## Dimensions



Unit: mm

Model	A		B	C	D	E	F	Package Dimension (L*D*H) mm	Net Weight (kg)		Gross Weight (kg)	
	Standard drain pan	Extend drain pan							3 rows	4 rows / 3+1 rows	3 rows	4 rows / 3+1 rows
FWW200V	625	825	401	437	37	501	423	641*250*558	13	13.5	15	15.4
FWW300V	815	1015	591	627	37	691	613	831*250*558	16.4	17	18.6	19.4
FWW400V	865	1065	641	677	37	741	663	881*250*558	18	18.7	20.3	21
FWW500V	945	1145	721	757	37	821	743	961*250*558	19.6	20	22	22.5
FWW600V	1045	1245	821	857	37	921	843	1061*250*558	21	21.6	23.8	24.3
FWW700V	1095	1295	871	907	37	971	893	1111*250*558	21.8	23	24.5	25.7
FWW800V	1425	1625	1201	1237	37	1301	1223	1441*250*558	30	31.5	33.5	35
FWW1000V	1475	1675	1251	1289	37	1351	1273	1491*250*558	32.2	33.8	35.8	37.5
FWW1200V	1675	1875	1451	1487	37	1551	1473	1691*250*558	37.2	39	41.2	43
FWW1400V	1825	2025	1601	1637	37	1701	1623	1841*250*558	41.3	43.3	45.5	47.6

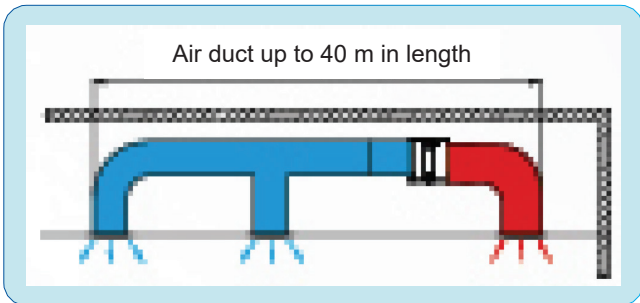
## Exploded-View & Part List



Items	Description
1	Drain pan
2	Deflector
3	Coil
4	Top panel
5	Fan deck
6	Fan
7	DC Motor
8	Air plenum left plate
9	Air plenum bottom plate
10	Air plenum top plate
11	Air plenum right plate
12	Filter
13	Wiring box
14	Bottom filter cover
15	Side filter cover

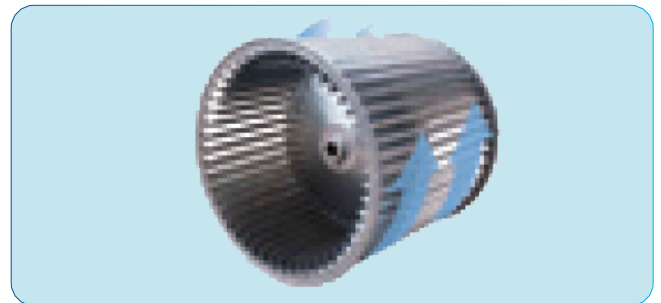


## FWW-T Large Air Flow Fan Coil Unit



### ► Wide application

By using the large air flow and high static pressure design, the unit can meet requirements for large air flow and high static pressure, and flexibly meet application requirements on different occasions.



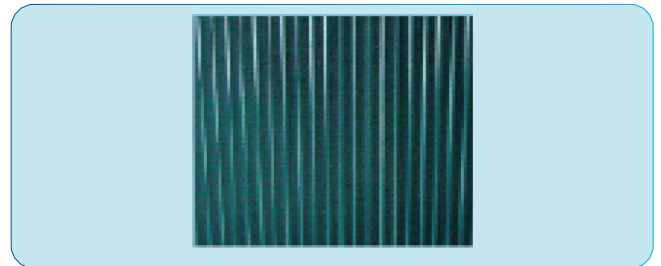
### ► Quiet operation

The unit is equipped with a low-noise, wide-impeller, and low-speed fan. Moreover, each fan is checked and inspected before delivery. The interior of the fan is adhered with efficient damping and heat insulating material to ensure quiet and efficient operation of the unit.



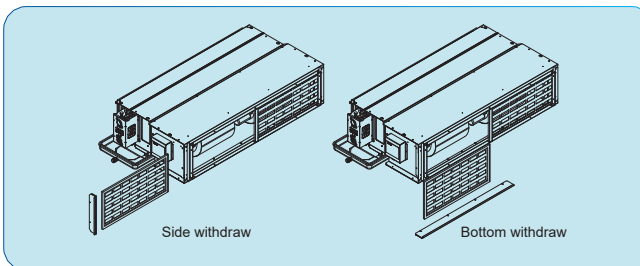
### ► Compact and space-saving structure

By using a compact structure design, the unit requires a small space for each unit, therefore saving the mounting space.



### ► High efficiency and reliability

The coil fin, made of hydrophilic aluminum and made through precision machining, ensures good heat exchange. The standard configuration includes a one-piece rubber insulating tilt drain pan that is molded to avert condensation and leakage.



### ► Easy maintenance

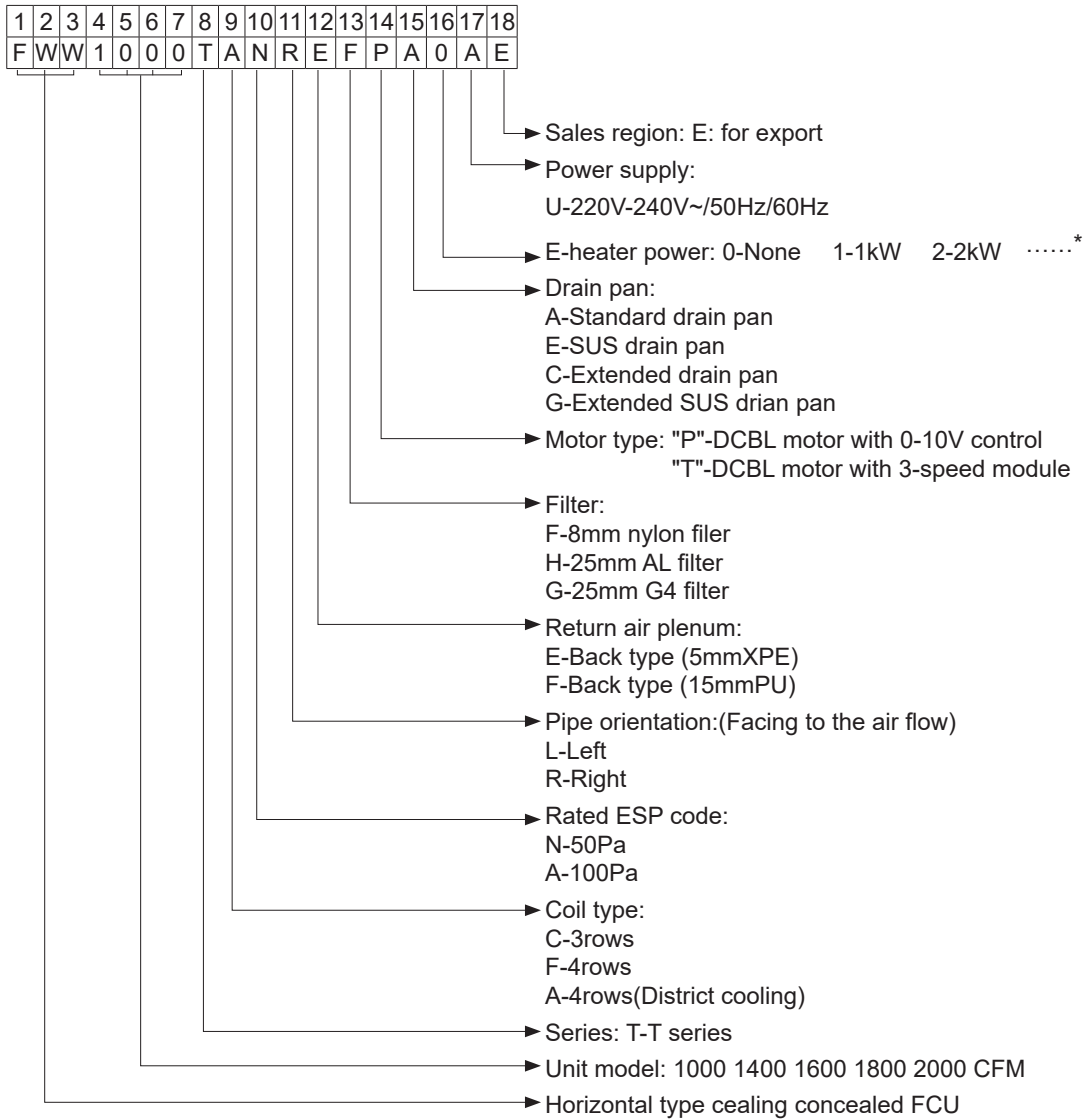
With unique design, the filter can be withdraw from either bottom or side. Users can clean or replace the filter much easier.



### ► Authoritative certificate

For the whole series, we comply with AHRI 440 Standard. For district cooling unit, Eurovent certificate is granted.

## Nomenclature



\*E-heater option:

E-heater power	1kw	2kw	3kw	4kw	5kw
FWW1000T	√	√	√	√	
FWW1400T			√	√	
FWW1600T			√	√	√
FWW1800T			√	√	√
FWW2000T				√	√

Remark: The E-heater may effect the unit air flow, please refer to the selection software for more details.

# FWW-T Ceiling Concealed Fan Coil Unit

## Standard Unit / 2-Pipe / 3 Rows

		Model	FWW1000TC	FWW1400TC	FWW1600TC	FWW1800TC	FWW2000TC
Air Flow		m <sup>3</sup> /h	1700	2200	2750	3150	3600
		CFM	1000	1294	1618	1853	2118
Total Cooling Capacity		W	8980	11580	13900	15150	18050
		Btu/h	30640	39511	47427	51692	61587
Water Flow Rate		m <sup>3</sup> /h	1.54	1.99	2.38	2.6	3.09
		USGPM	6.78	8.76	10.47	11.44	13.60
Water Pressure drop		kPa	31	45	51	31	59
		in.wg.	124	181	205	124	237
Rated Power Input	50Pa	W	167	205	322	395	455
	100Pa	W	218	270	390	493	544
Rated Running Current	50Pa	A	1.25	1.71	2.56	3.1	3.53
	100Pa	A	1.58	2.16	3.01	3.72	4.18
Sound Pressure Level	50Pa	dB(A)	48.5	49.5	53	55	54.5
	100Pa	dB(A)	50.5	51	55	56.5	56
Filter	Type		8mm Nylon Filter				
	Access		Both Side & Bottom Withdraw				
Coil	Row No.		3				
	Working Pressure		2.0 MPa				
	Material		Copper tube & Hydrophilic Aluminum				
	Water Volume	L	1.29	1.51	1.66	1.89	2.29
Fan	Type		Galvanized Steel Centrifugal Fan ( Forward)				
	Quantity		2	2	2	2	2
Motor	Type		Brushless DC motor				
	Quantity		1	1	1	1	1
	IP/Insulation		IP20 / ≥B				

### NOTES:

- 1) All performance is tested under 230V~/50Hz, High speed and unit couple with return air plenum and 8mm nylon filter.
- 2) The air flow, power input, sound data is tested on standard air condition without water in coil.
- 3) The capacity is tested under below condition:  
---Cooling capacity: Entering air DB/WB: 27°C/19.5°C, water inlet 7°C, water outlet 12°C
- 4) The sound pressure is measured according to GB/T 19232-2019 (1m below the unit bottom),
- 5) DC fcu can meet customer requirement exactly by adjusting input fan control voltage. Please refer to the software for more details.

# FWW-T Ceiling Concealed Fan Coil Unit

## Standard Unit / 2-Pipe / 4 Rows

		Model	FWW1000TF	FWW1400TF	FWW1600TF	FWW1800TF	FWW2000TF
Air Flow		m <sup>3</sup> /h	1700	2200	2750	3150	3600
		CFM	1000	1294	1618	1853	2118
Total Cooling Capacity		W	10310	13570	15940	17950	21450
		Btu/h	35178	46301	54387	61245	73187
Water Flow Rate		m <sup>3</sup> /h	1.77	2.33	2.73	3.08	3.68
		USGPM	7.79	10.25	12.01	13.55	16.19
Water Pressure drop		kPa	39	44	52	58	68
		in.wg.	157	177	209	233	273
Rated Power Input	50Pa	W	167	205	322	395	455
	100Pa	W	218	270	390	493	544
Rated Running Current	50Pa	A	1.25	1.71	2.56	3.1	3.53
	100Pa	A	1.58	2.16	3.01	3.72	4.18
Sound Pressure Level	50Pa	dB(A)	48.5	49.5	53	55	54.5
	100Pa	dB(A)	50.5	51	55	56.5	56
Filter	Type	8mm Nylon Filter					
	Access	Both Side & Bottom Withdraw					
Coil	Row No.	4					
	Working Pressure	2.0 MPa					
	Material	Copper tube & Hydrophilic Aluminum					
	Water Volume	L	1.72	2.01	2.21	2.52	3.06
Fan	Type	Galvanized Steel Centrifugal Fan ( Forward)					
	Quantity		2	2	2	2	2
Motor	Type	Brushless DC motor					
	Quantity		1	1	1	1	1
	IP/Insulation		IP20 / ≥B				

### NOTES:

- 1) All performance is tested under 230V~/50Hz, High speed and unit couple with return air plenum and 8mm nylon filter.
- 2) The air flow, power input, sound data is tested on standard air condition without water in coil.
- 3) The capacity is tested under below condition:  
---Cooling capacity: Entering air DB/WB: 27°C/19.5°C, water inlet 7°C, water outlet 12°C
- 4) The sound pressure is measured according to GB/T 19232-2019 (1m below the unit bottom),
- 5) DC fcu can meet customer requirement exactly by adjusting input fan control voltage. Please refer to the software for more details.

# FWW-T Ceiling Concealed Fan Coil Unit

## District Cooling Unit / 2-Pipe / 4 Rows

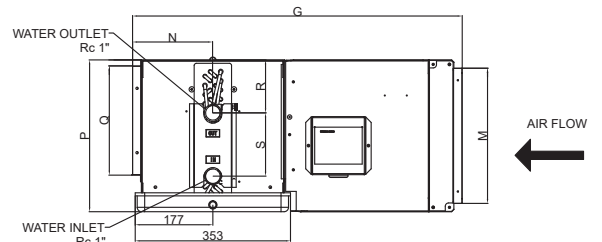
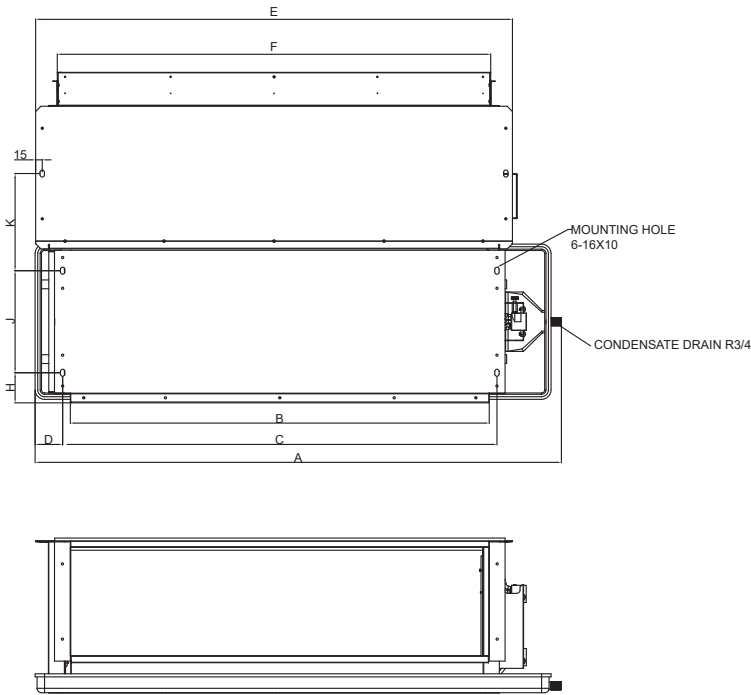
		Model	FWW1000TA	FWW1400TA	FWW1600TA	FWW1800TA	FWW2000TA
Air Flow	m <sup>3</sup> /h		1700	2200	2750	3150	3600
	CFM		1000	1294	1618	1853	2118
Total Cooling Capacity	W		8030	9940	12580	13650	15950
	Btu/h		27398	33915	42923	46574	54421
Water Flow Rate	m <sup>3</sup> /h		0.76	0.95	1.2	1.3	1.52
	USGPM		3.34	4.18	5.28	5.72	6.69
Water Pressure drop	kPa		30	45	49	44	37
	in.wg.		120	181	197	177	149
Rated Power Input	50Pa	W	167	205	322	395	455
	100Pa	W	218	270	390	493	544
Rated Running Current	50Pa	A	1.25	1.71	2.56	3.1	3.53
	100Pa	A	1.58	2.16	3.01	3.72	4.18
Sound Pressure Level	50Pa	dB(A)	48.5	49.5	53	55	54.5
	100Pa	dB(A)	50.5	51	55	56.5	56
Filter	Type		8mm Nylon Filter				
	Access		Both Side & Bottom Withdraw				
Coil	Row No.		4				
	Working Pressure		2.0 MPa				
	Material		Copper tube & Hydrophilic Aluminum				
	Water Volume	L	1.72	2.01	2.21	2.52	3.06
Fan	Type		Galvanized Steel Centrifugal Fan ( Forward)				
	Quantity		2	2	2	2	2
Motor	Type		Brushless DC motor				
	Quantity		1	1	1	1	1
	IP/Insulation		IP20 / ≥B				

**NOTES:**

- 1) All performance is tested under 230V~/50Hz, High speed and unit couple with return air plenum and 8mm nylon filter.
- 2) The air flow, power input, sound data is tested on standard air condition without water in coil.
- 3) The capacity is tested under below condition:  
 ---District Cooling capacity: Entering air DB/WB: 24°C/18°C, water inlet 5.5°C, water outlet 14.5°C.
- 4) The sound pressure is measured according to GB/T 19232-2019 (1m below the unit bottom),
- 5) DC fcu can meet customer requirement exactly by adjusting input fan control voltage. Please refer to the software for more details.

# FWW-T Ceiling Concealed Fan Coil Unit

## Dimensions

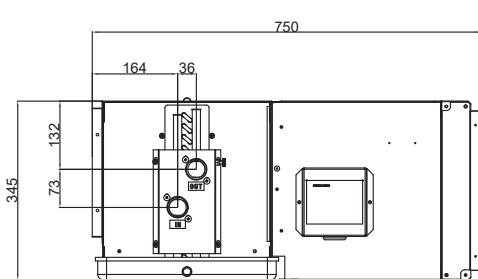


Model	A		G	P	B	C	D	E	F	H	J	K	M	N	Q	R	S
	Standard drain pan	Extend drain pan															
FWW1000T	1195	1395	585	290	952	987	48	1085	1006	65	150	227	254	127	202	66	143
FWW1400T	1195	1395	750	345	952	987	50	1085	985	68	232	221	307	183	248	123	143
FWW1600T	1295	1495	750	345	1053	1087	50	1185	1085	68	232	221	307	183	248	123	143
FWW1800T	1445	1645	750	345	1201	1237	50	1335	1235	68	232	221	307	183*	248	123	143
FWW2000T	1445	1645	780	390	1201	1237	50	1335	1235	68	232	266	354	183*	300	62	250

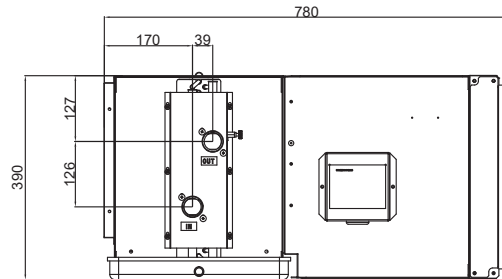
Unit: mm

Model	Package Dimension (L*D*H) mm	Net Weight (kg)		Gross Weight (kg)	
		3 rows	4 rows	3 rows	4 rows
FWW1000T	1211*305*608	35.3	36	39.3	40
FWW1400T	1211*360*773	52	53.2	56.5	57.6
FWW1600T	1311*360*773	54.2	55.3	59.4	60.5
FWW1800T	1461*360*773	60.6	61.7	66.3	67.4
FWW2000T	1461*405*803	64	65.4	69.8	71.3

Remark: The water pipe location of FWW1800TF and FWW2000TF is different. Please refer to below drawing.



\*Water pipe location for FWW1800TF



\*Water pipe location for FWW2000TF

# FUW-FE High ESP Cabinet Fan coil Unit



FUW cabinet fan coil units are high airflow and high static pressure units using high efficiency EC motors. The nominal airflow range is from 2000m<sup>3</sup>/h to 6000m<sup>3</sup>/h and the external static pressure range is from 100Pa to 250Pa.

This series adopts the high-strength cabinet, precision machined coil, efficient fan with low noise and filter to perfectly meet customers' needs for air handling units and save the indoor space. FUW products feature high external static pressure, large cooling capacity, compact size, low noise and easy installation. The units are widely used in hotels, shopping malls, airports, hospitals, factories and office buildings, and are especially ideal for scenarios with limited installation space and demanding noise limitation.

## FUW-FE Cabinet Fan Coil Unit

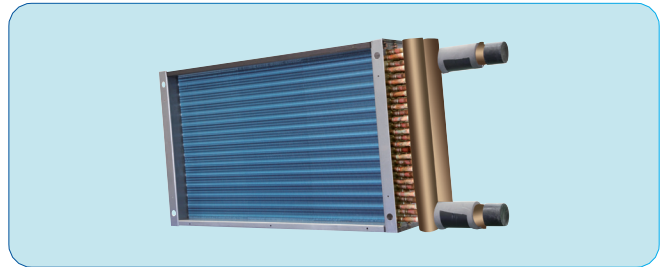
### ► Casing

- The cabinet adopts quality galvanized steel sheet with excellent corrosion protection. With a 10mm thick PE insulation layer, it features super heat insulation and sound absorption.
- The bottom plate is designed to be an intergrated drain pan. We will provide heat insulation for the entire drain pan, air outlet panel and area outside the drain pan, to avoid cold bridge.
- Stainless steel drain pan is optional.
- Insulation at end plate can better protect the unit



### ► Heat Exchanger

- Copper tubes and corrugated aluminum fins are adopted. Also, mechanical expanding ensures close fit between the copper tubes and fins, thus achieving the optimal heat exchange efficiency of the coil.
- All heat exchangers have passed the pressure testing with nitrogen before delivery as required by relevant national standard for a no-leak guarantee.
- Hydrophilic aluminum foil is optional.



### ► Fan Motor

- The EC motor (outer rotor) with the low noise fan features high efficiency, low noise, convenient speed regulation, stable and compact structure, and high reliability.



### ► Filter

- The unit comes standard with nylon filter which can reduce air resistance and anti-mildew.
- G4 filter is optional.



### ► Smart Control

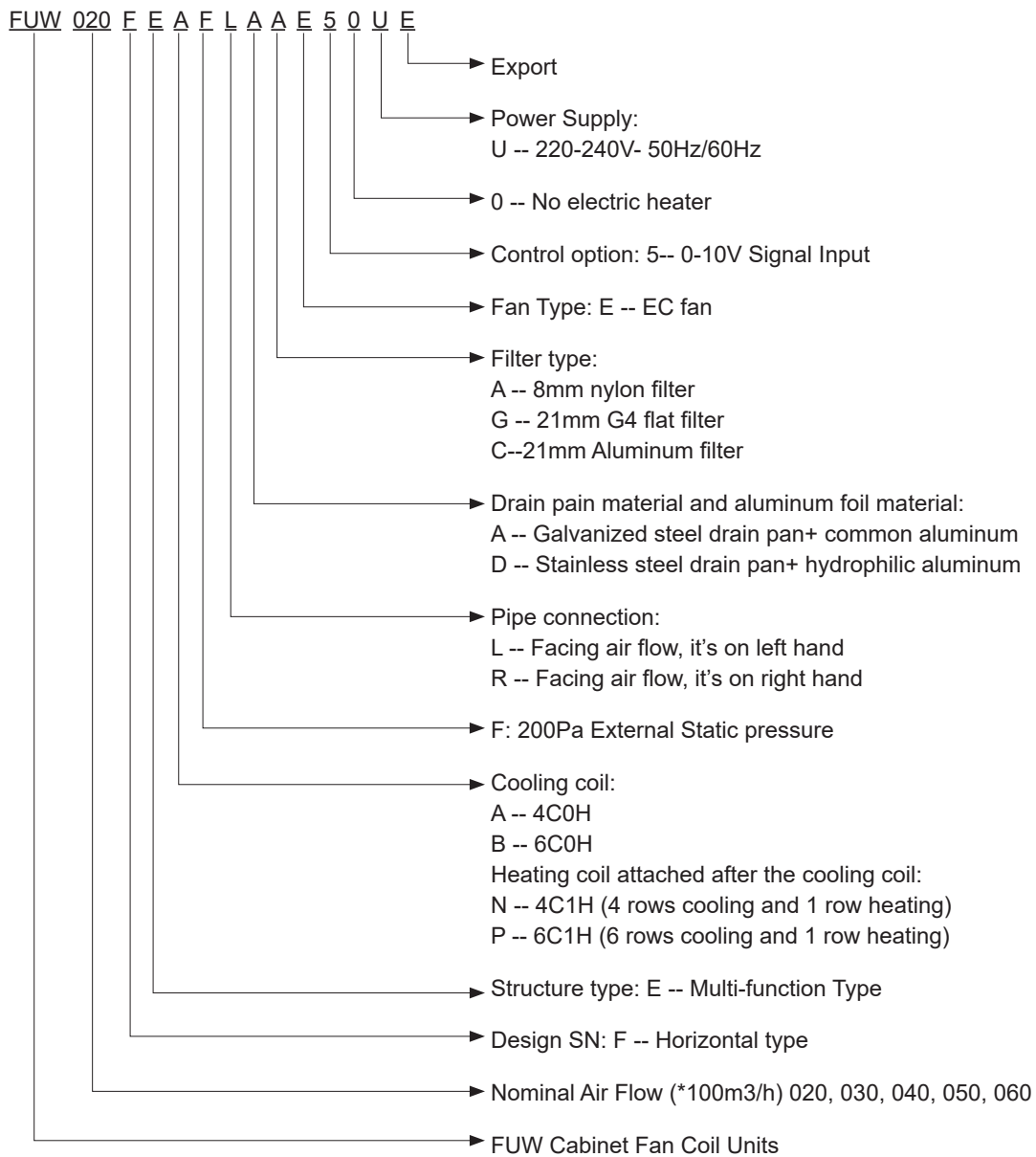
- The unit can not only achieve stepless adjustment of the fan speed and water valve, but also can be connected to centralized BMS control system. Please refer to wiring for details.
- Wired controller AC8800-H-0022 is optional.

Remark: AC8800-H-0022 comes without batteries. Therefore, customers need to prepare batteries themselves. Battery model: CR1220. Please refer to IOM for detailed specification instruction and setting method.



AC8800-H-0022

## Nomenclature



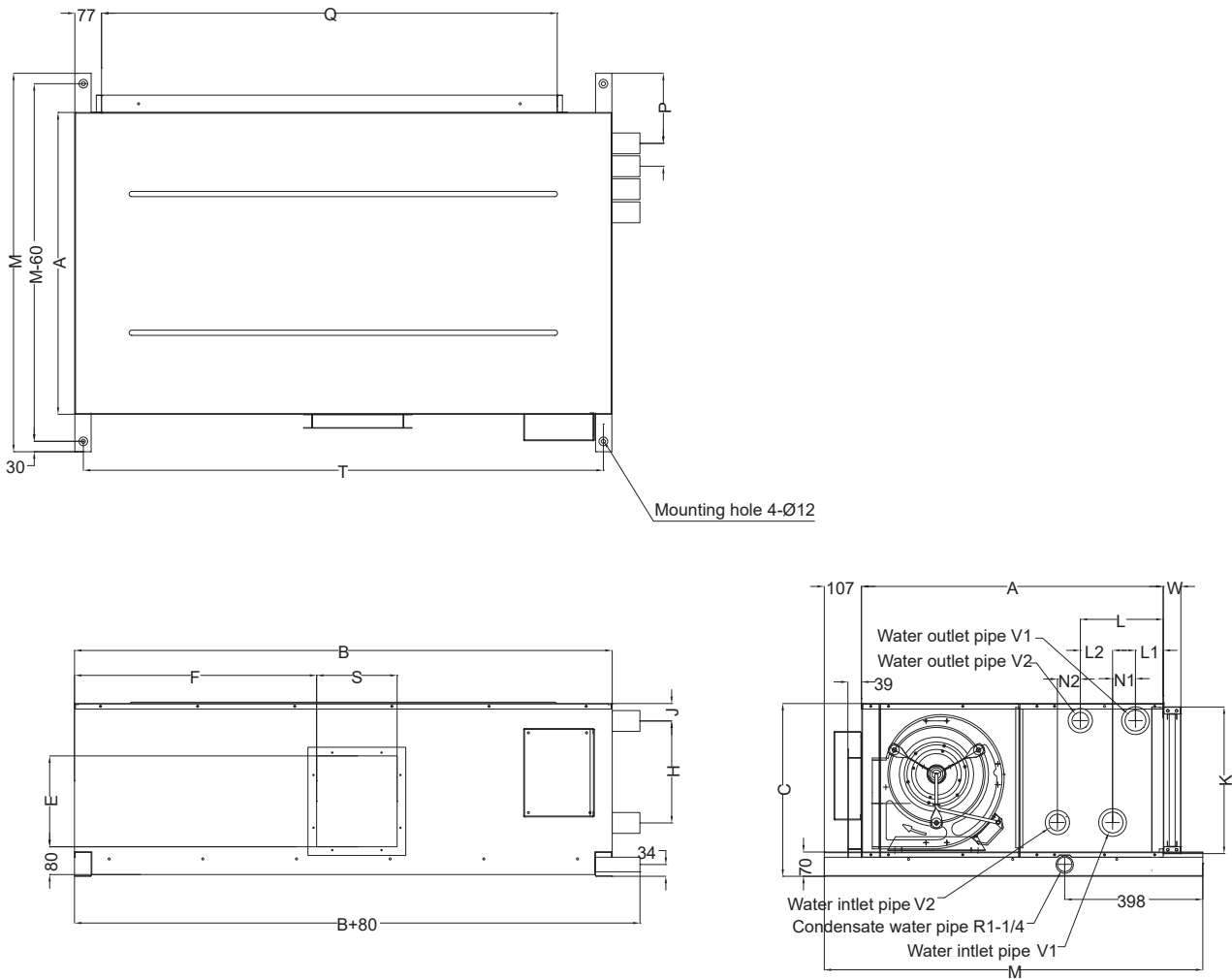
## District Cooling Unit/2-pipe/4 Rows

Model			FUW020FE	FUW030FE	FUW040FE	FUW050FE	FUW060FE
Nominal Air Flow		(m <sup>3</sup> /h)	2000	3000	4000	5000	6000
Nomina ESP		Pa	200	200	200	200	200
Nominal Capacity	Cooling Coil	4 Rows	6.0	10.6	14.6	18.2	22.5
		6 Rows	9.3	14.0	18.4	24.1	28.1
Water Flow Rate	Cooling Coil	4 Rows	0.21	0.36	0.50	0.62	0.77
		6 Rows	0.32	0.48	0.63	0.82	0.95
Water Pressure Drop	Cooling Coil	4 Rows	1.9	6.9	20.1	18.0	30.1
		6 Rows	6.4	22.3	15.1	28.6	21.2
Nominal Capacity	Heating Coil	1 Rows	9.6	14.9	20.1	27.2	33.5
Water Flow Rate	Heating Coil	1 Rows	0.11	0.18	0.24	0.32	0.40
Water Pressure Drop	Heating Coil	1 Rows	5.0	5.0	5.0	10.5	17.9
Coil	Type		Copper tube with corrugated aluminum fins				
	FPI		12				
	Max. Working Pressure		1.6MPa				
	Inlte/Outlet Pipe		R1-1/2	R1-1/2	R1-1/2	R2(R1-1/2)	R2(R1-1/2)
	Condensing Water Pipe		R1-1/4				
Fan	Type		Forward Curved Centrifugal Fan				
	Qty.		1	1	2	2	2
Motor	Type		External Rotor EC Motor				
	Qty.		1	1	2	2	2
	Rating Power	W	1*375	1*750	2*750	2*750	2*750
	Rating Amps	A	3.2	5.8	11.6	11.6	11.6
	Control Signal Input		0~10VDC				
Power Supply		220-240V~50/60Hz					
Sound Pressure Level	dB(A)		55.0	55.5	58.0	58.5	59.0
Unit Dimensions	Length	mm	870	870	870	870	870
	Width	mm	800	1040	1300	1550	1800
	Height	mm	498	498	498	498	498
Packing Dimensions	L*W*H	mm	1150*980*600	1220*1150*600	1480*1150*600	1730*1150*600	1980*1150*648
Weight of Unit c/w 8mm nylon filter	4 Rows	kg	65	78	106	117	126
	6 Rows	kg	68	83	112	124	136

### Notes:

- 1) All specifications are subject to change by the manufacturer without prior notice.
- 2) The air flow is tested at 20°C DB without water in coil and without filter.
- 3) The coil capacity are being tested under following condition:  
Cooling: entering DB/WB: 23°C/17°C, water inlet 7°C, water outlet 14°C  
Heating: entering DB: 21°C, water inlet 80°C, water outlet 60°C
- 4) Sound pressure value measured at 1m in front of the unit and 1m below the vertical center line of the unit, and tested in semi-anechoic room with background sound pressure level: 17.2dB(A)
- 5) Value inside ( ) in the above table is the size for heating coil.
- 6) The parameters above are measured at the altitude of 0m above sea level, and may vary with the altitude.
- 7) The weight listed in the above table is net weight of unit. The operating weight may increase by about 20%.
- 8) For detailed parameters, please refer to the selection software results.

## Unit Dimensions

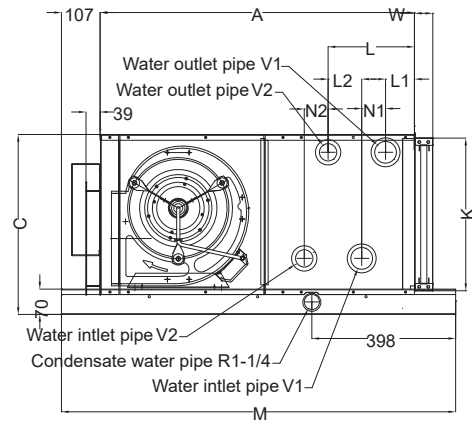
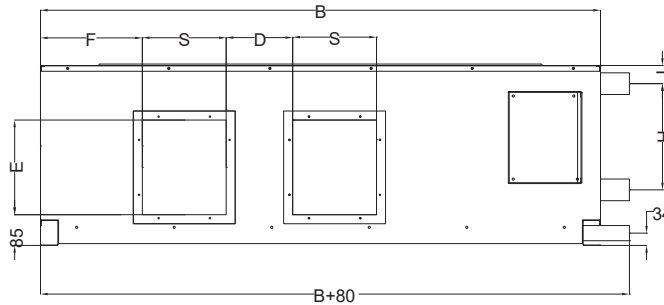
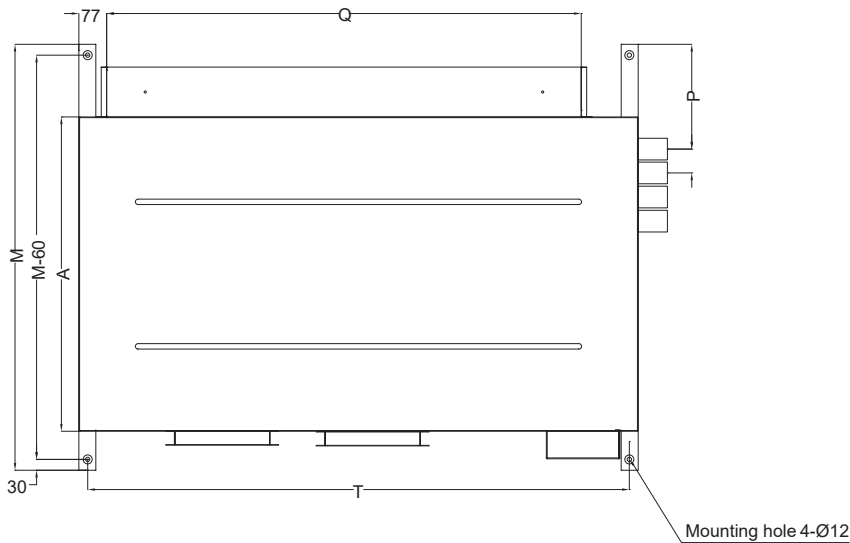


Dimensions	Cabinet dimensions			Lifting holes		Connection pipe										Return Air Inlet		Supply air outlet			Filter frame (optional)	
	Model	A	B	C	M	T	H	J	L1	L2	N1 (4R)	N1 (6R)	N2 (1R/2R)	P	V1	V2	K	Q	F	E	S	W (Nylon)
FUW020FE	870	800	498	1091	749	294	50	80	93	66	110	66	194	R1-1/2	R1-1/2	423	564	194	262	232	51	66
FUW030FE	870	1040	498	1091	989	294	50	80	93	66	110	66	194	R1-1/2	R1-1/2	423	804	371	262	298	51	66

**Notes:**

- 1) The unit of connection pipe (V1, V2) is inch, and other units are mm.
- 2) The cabinet dimensions exclude the protruding parts (such as the water pipe header, air vent, filter and hanging rod). For details, see the above figure.
- 3) Above drawing is for 4-pipe unit. If for 2-pipe unit, the rest datas are the same after ignoring the data of "L2,N2,V2".

# FUW-FE High ESP Cabinet Fan coil Unit



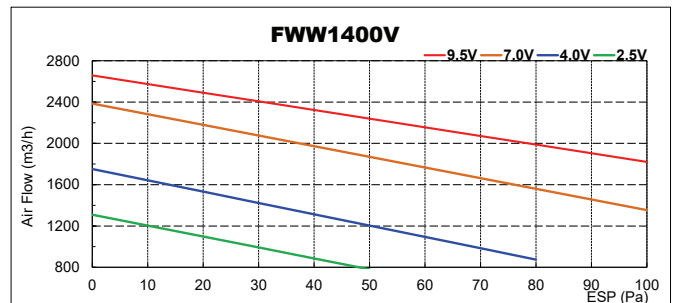
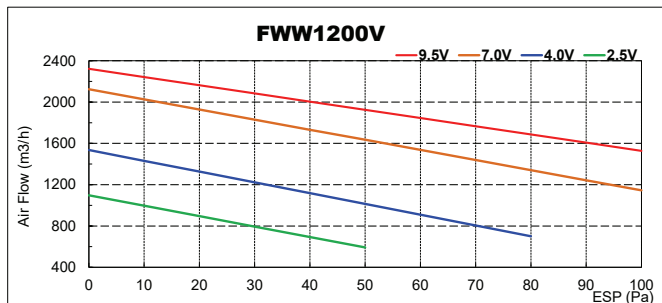
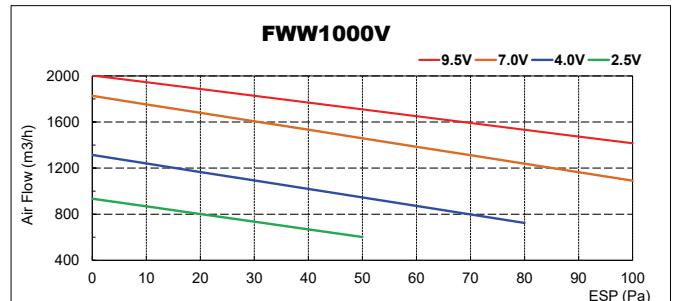
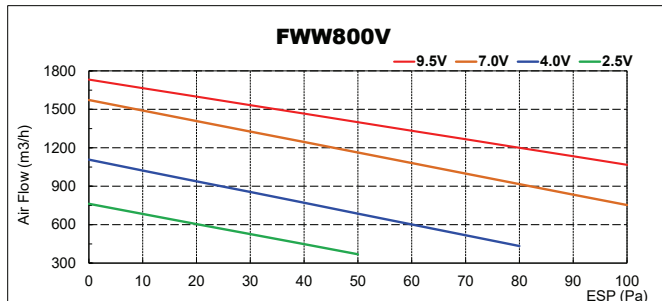
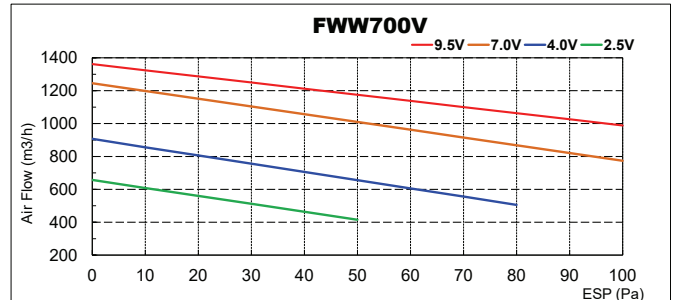
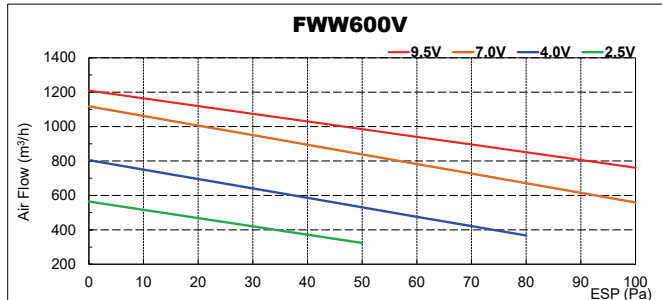
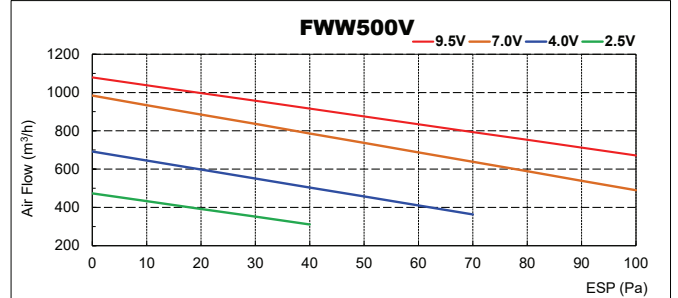
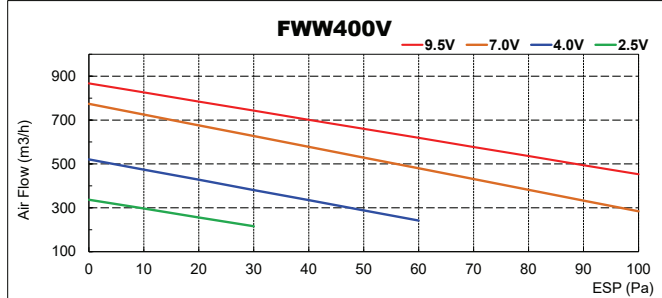
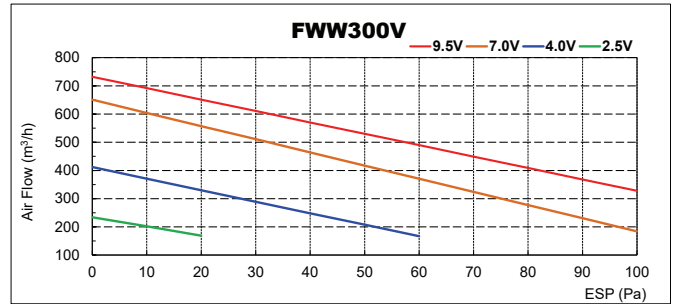
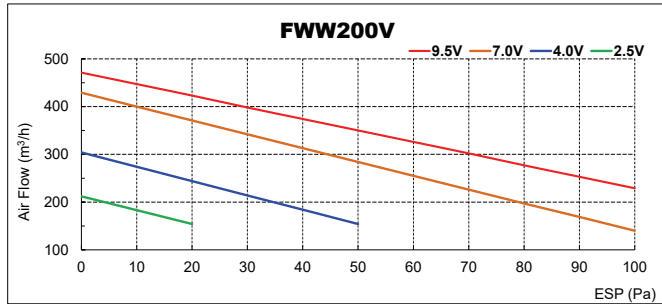
Dimensions	Cabinet dimensions			Lifting holes		Connection pipe								Return Air Inlet		Supply air outlet					Filter frame (optional)		
	A	B	C	M	T	H	J	L1	L2	N1 (4R)	N1 (6R)	N2 (1R/2R)	P	V1	V2	K	Q	D	F	E	S	W (Nylon)	W (G3/AL)
FUW040FE	870	1300	498	1091	1249	294	50	80	93	66	110	66	194	R1-1/2	R1-1/2	423	1064	238	224	262	232	51	66
FUW050FE	870	1550	498	1091	1499	294	50	80	93	66	110	66	194	R2	R1-1/2	423	1314	256	324	262	298	51	66
FUW060FE	870	1800	498	1091	1749	294	50	80	93	66	110	66	194	R2	R1-1/2	423	1564	306	449	262	298	51	66

**Notes:**

- 1) The unit of connection pipe (V1, V2) is inch, and other units are mm.
- 2) The cabinet dimensions exclude the protruding parts (such as the water pipe header, air vent, filter and hanging rod). For details, see the above figure.
- 3) Above drawing is for 4-pipe unit. If for 2-pipe unit, the rest datas are the same after ignoring the data of "L2,N2,V2".

# Air Flow Curve

## FWW-V

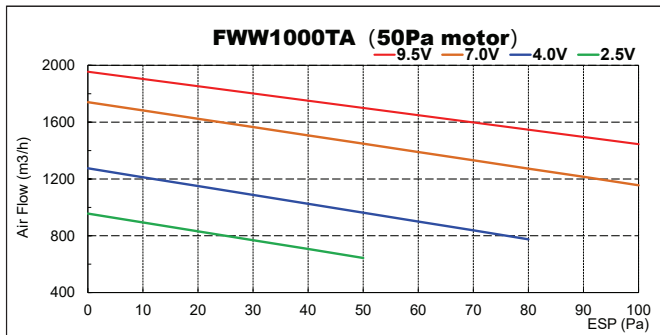


Remark:

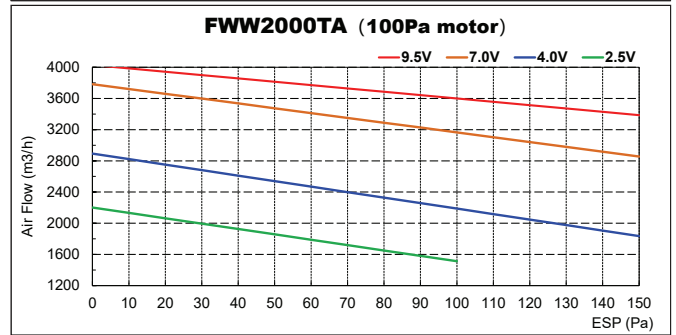
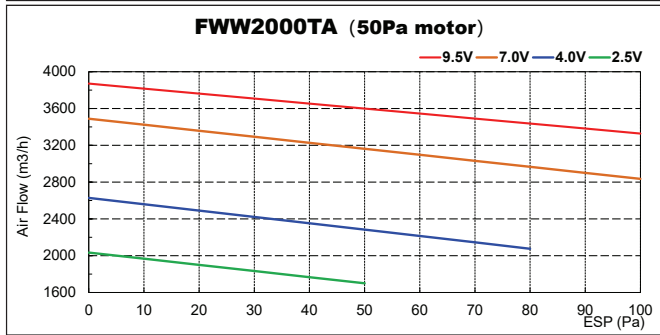
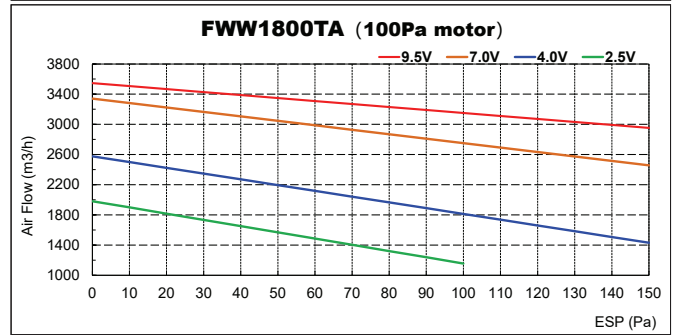
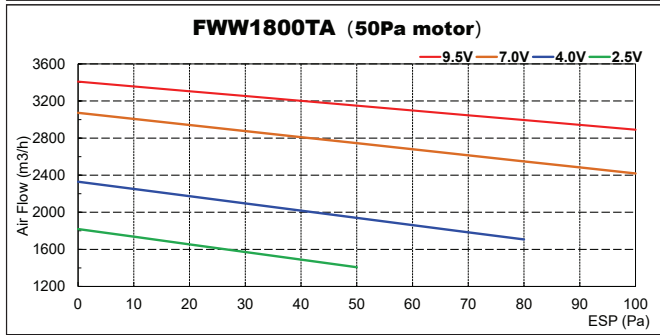
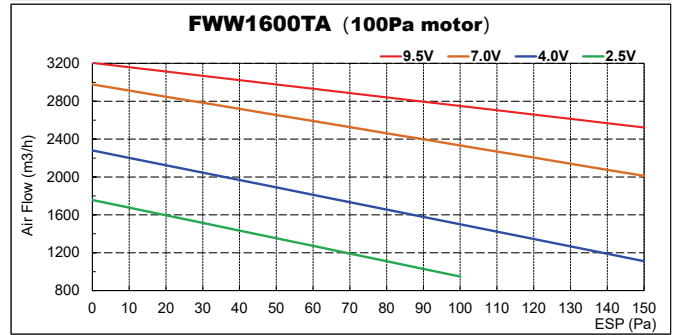
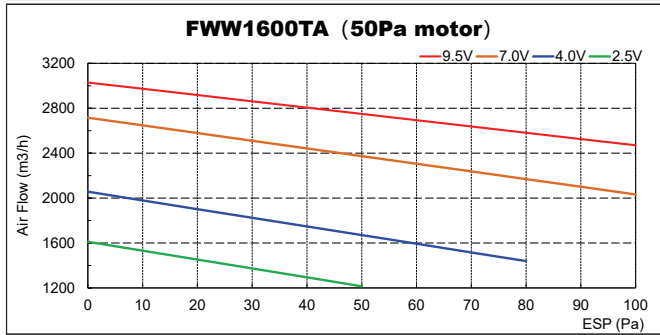
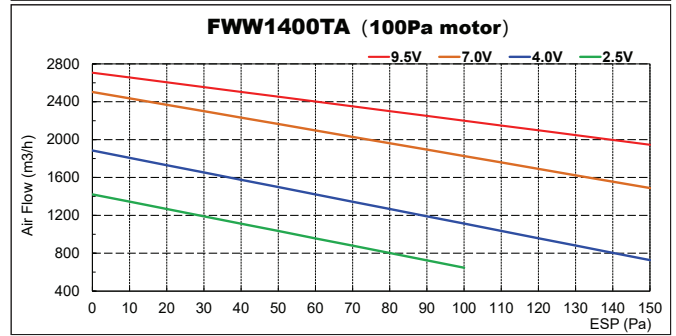
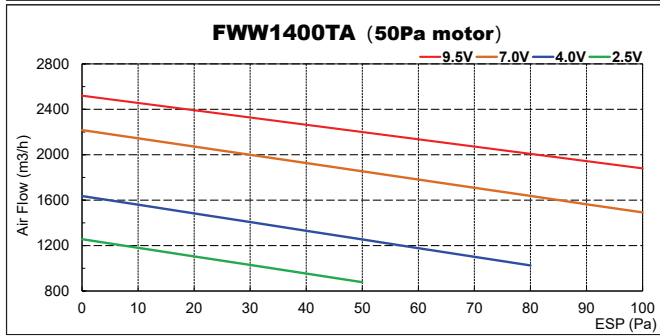
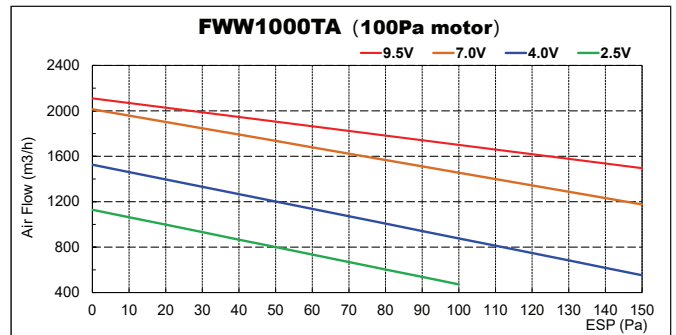
1. Below air flow curves are based on 4 rows coil unit with back return plenum with 8mm nylon filter.
2. Please use the selection software to get more details.

## FWW-T

50Pa Motor



100Pa Motor

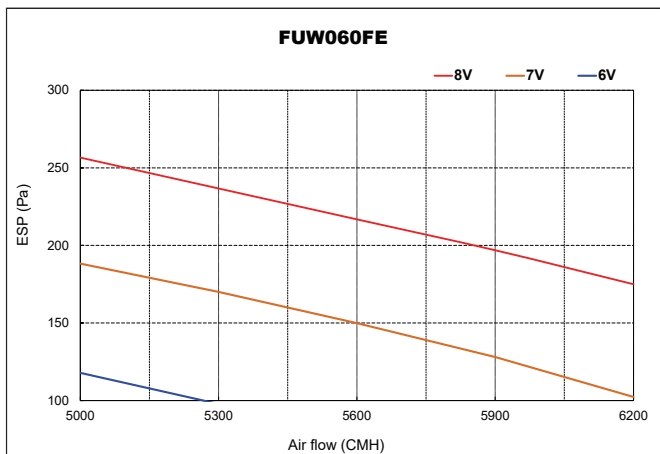
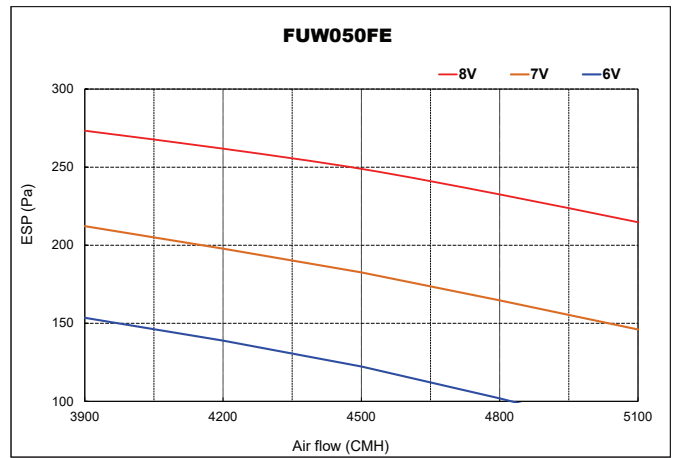
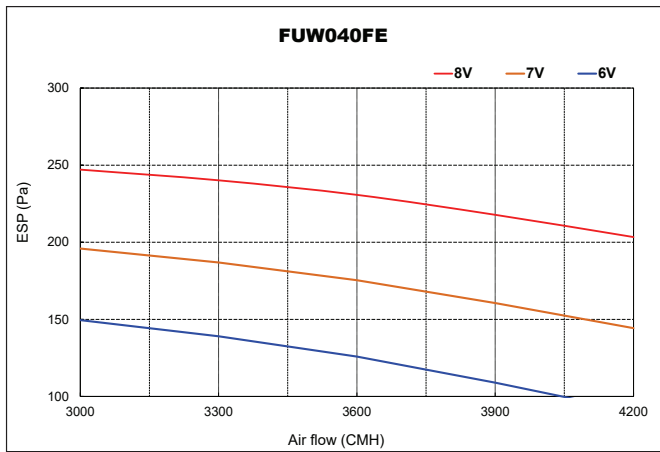
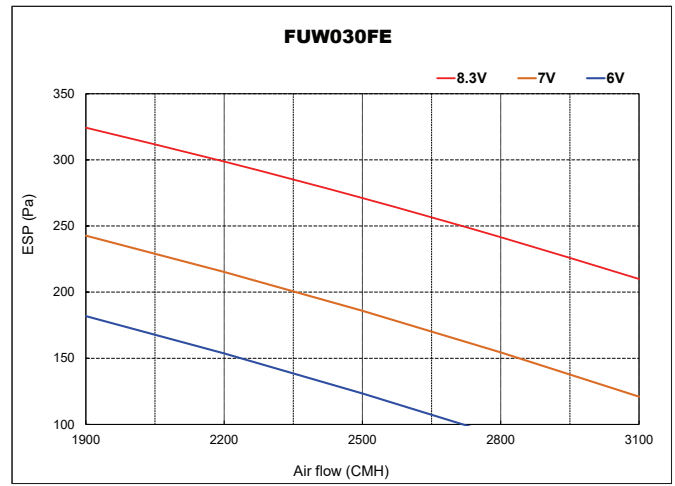
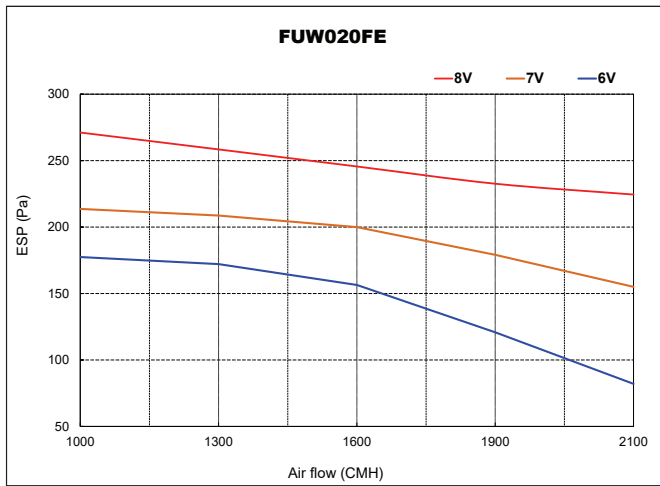


Remark:

1. Below air flow curves are based on 4 rows coil unit with back return plenum with 8mm nylon filter.
2. Please use the selection software to get more details.

# Air Flow Curve

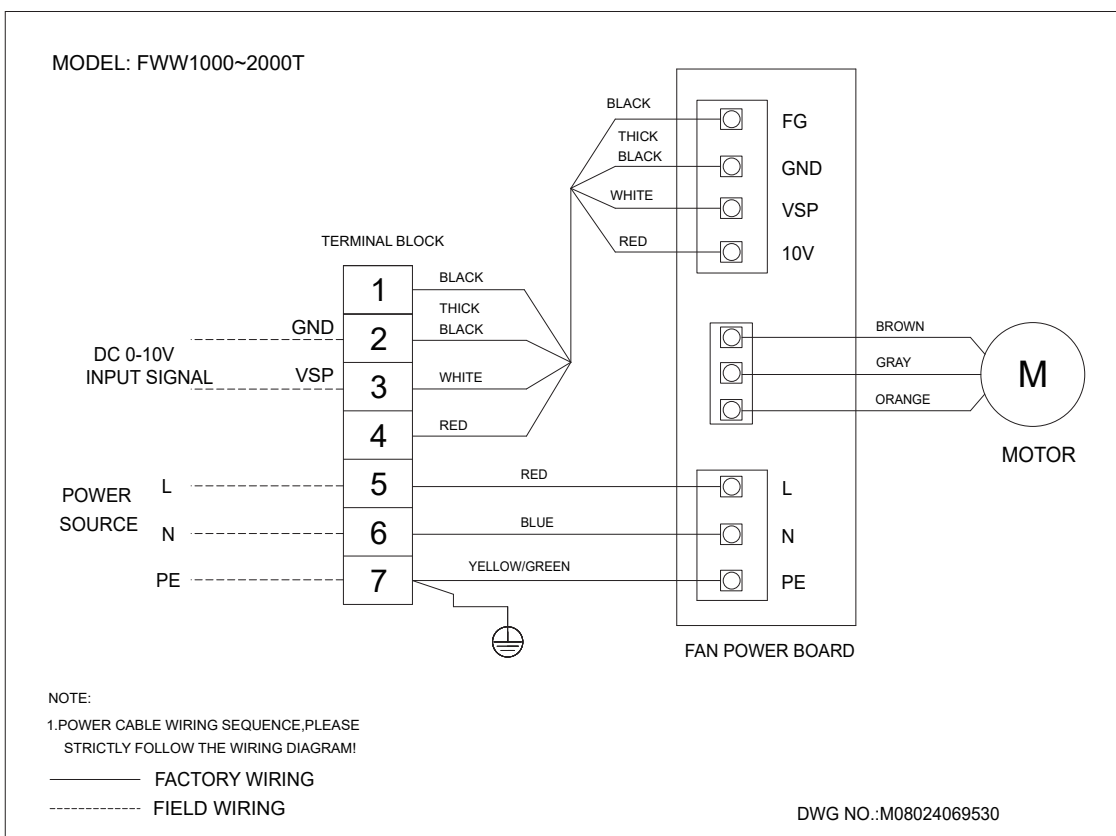
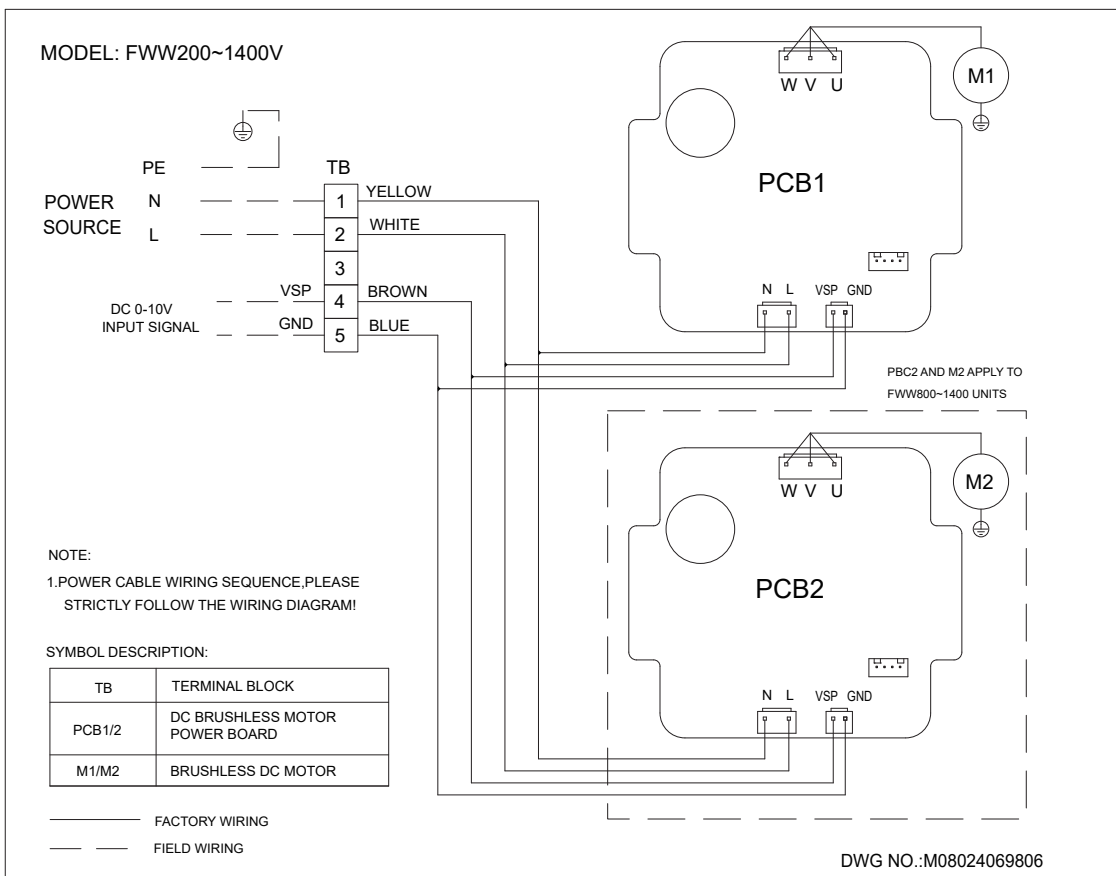
## FUW



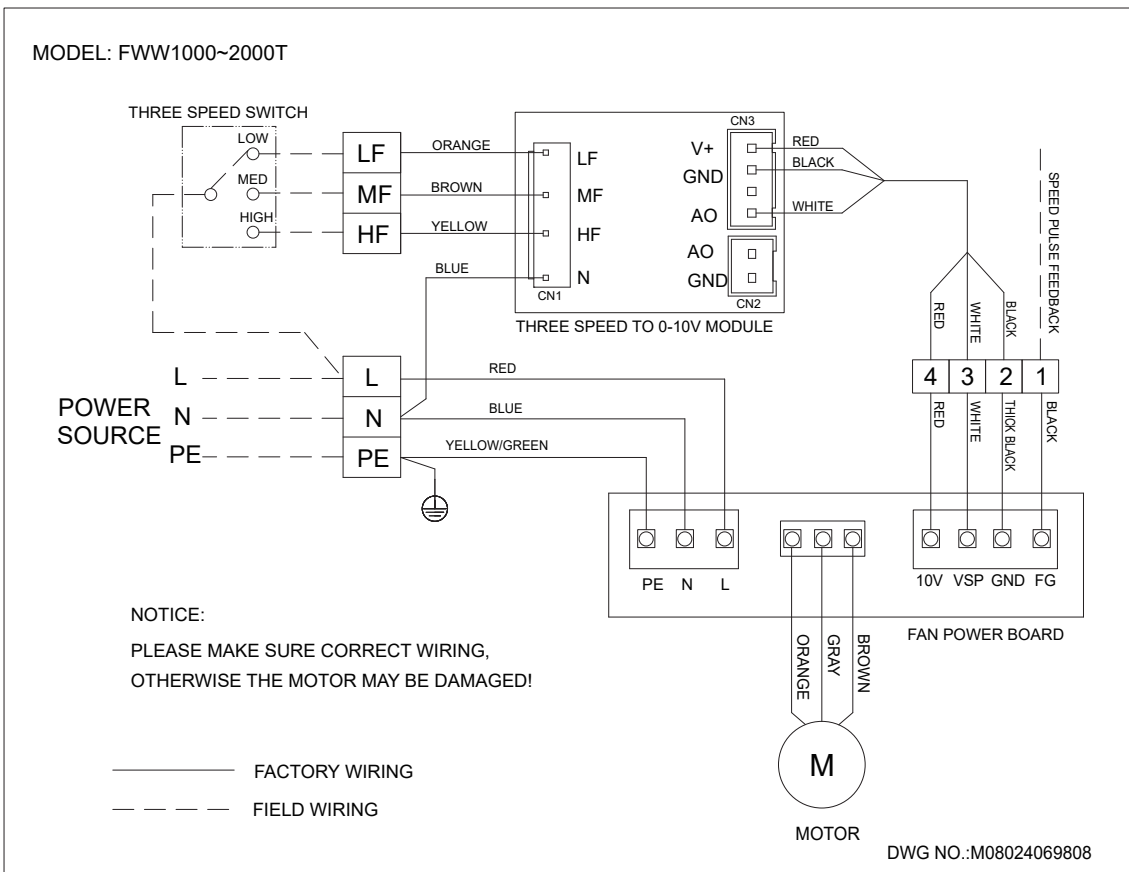
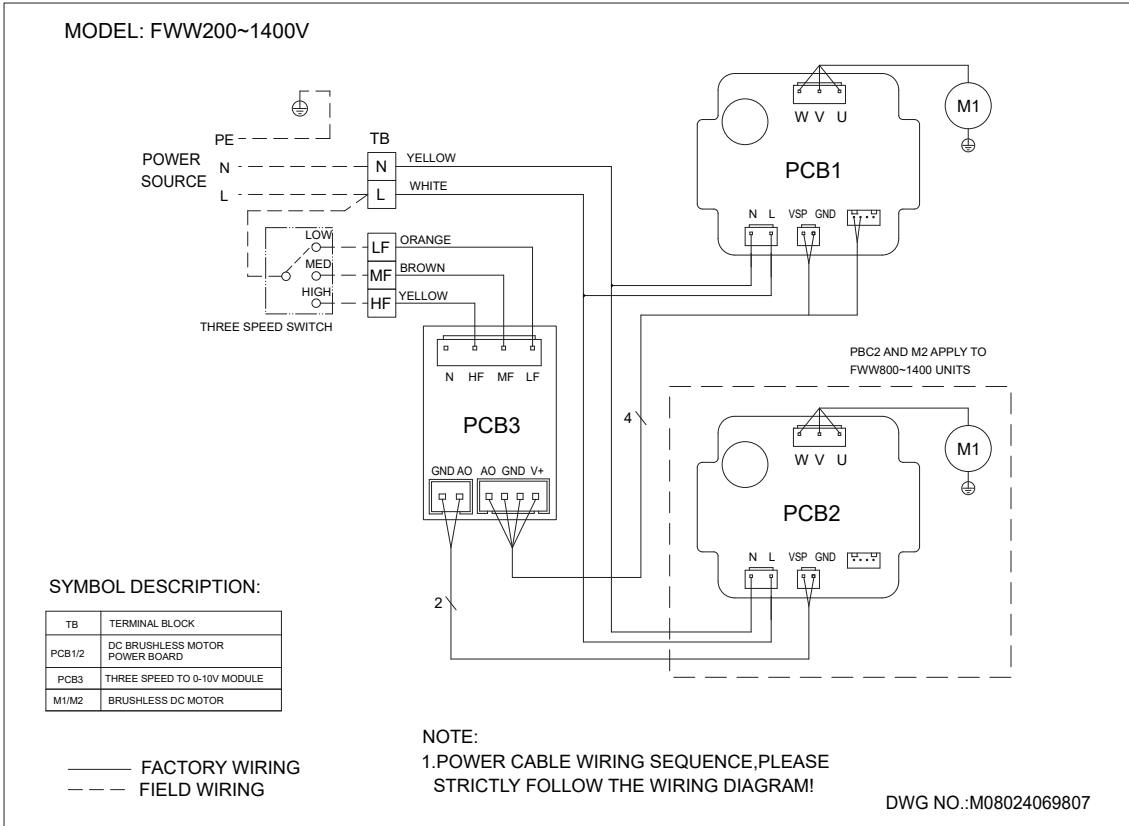
**Remark:**

1. Below air flow curves are based on 4 rows coil unit with 8mm nylon filter.
2. Please use the selection software to get more details.

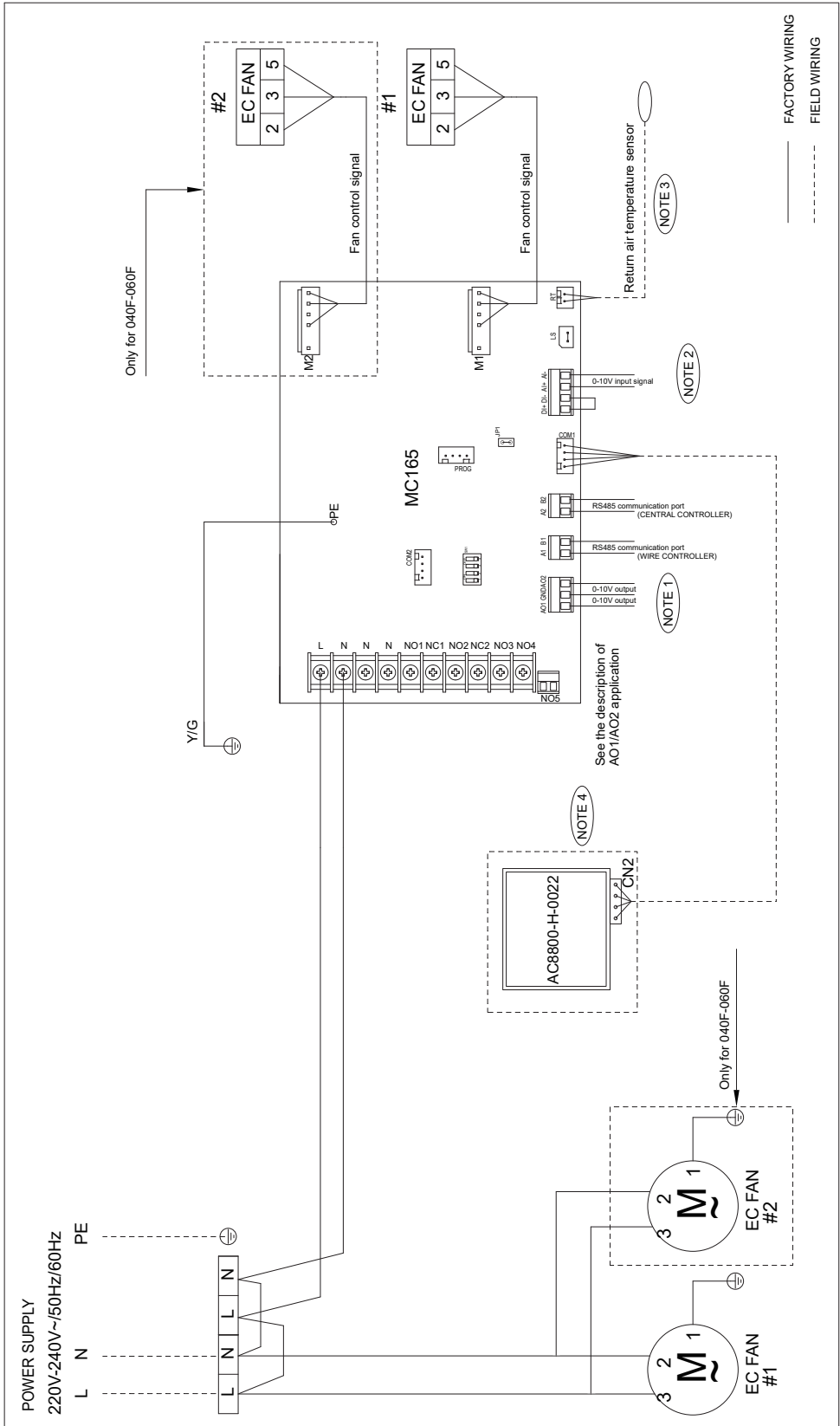
# Unit wiring (with 0~10V control port)



# Unit wiring (with 3-speed Module)



# Unit wiring (FUW-FE)



**DESCRIPTION:**

Unit type	Two-pipe	Four-pipe
solenoid valve/port	Cold/Hot water valve	Cold water valve
V1/A01	-	Hot water valve
V2/A02	-	-

- NOTE:**
1. AO1 and AO2 are reserved proportional valve ports.
  2. When the customer uses 0-10V input signal to control the fan, the PCB solenoid valve control signal port and room card function are invalid.
  3. RT port can be connected to return air temperature sensor, which is not standard.
  4. COM1 port can be connected to AC8800-H-0022 (wired controller), which is not standard.

2. L S port is shorted by default;
3. JP1 jumper is closed by default.

# Guide Specifications for FWW Unit

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## ► Unit Description

Factory-assembled, horizontal, galvanized casing, ceiling ducted fan coil unit is complete with water coil, fans, motors, drain pan, filters and all required wiring, with full access to internal components.

## ► Quality Assurance

Each coil is factory tested for leakage at 2.5MPa air pressure with coil submerged in water. Each unit and its moving components (fans and motors) are factory computer-tested and recorded after unit is complete and before it is packed.

## ► Factory shall be certified by following standard

1. ISO 9001:2015 certification for Quality Management Systems
2. ISO 14001:2015 certification for Environmental Management Systems
3. ISO 45001:2018 certification for Occupational Health and Safety

## ► Component Specifications

### 1. Casing:

Construction is galvanized steel, lined on the inside with thermal and acoustical insulation. Return air plenum is lined with XPE and has a collar for return duct connection. Supply duct connection also has a collar. Removable bottom panel is provided for access to the fan/motor assembly.

### 2. Coil:

Standard unit is equipped with a 3-rows, 4-rows or 3+1 rows coil for installation in a 2-pipe or 4-pipe system. Coil has seamless copper tubes, aluminum fins bonded to the tubes by mechanical expansion.

### 3. Fan:

Direct-driven centrifugal fan wheel has forward-curved blades which are statically and dynamically balanced.

The fan housing and blades are constructed of high quality hot-galvanized steel.

### 4. Motor:

Fan motor is permanent magnet rotor DCBL type with ball type bearing and build-in automatic reset thermal overload protection. Motors have permanently lubricated ball bearings.

### 5. Drain Pan

Drain pan shall be die-formed steel, sloped to the piping connection, which will be threaded for easy connection. Both its sides are sprayed and outer side insulated with 6mm NBR that complies with GB 8624 B1 class requirement. It extends under the full length and width of the coils and is pitched for positive drainage with features of high anti-corrosion, anti-condensation and high fire reluctance.

### 6. Filter

Filter is with washable type Nylon filter with 8mm thickness.

**Warning**

- Daikin Industries, Ltd.'s products are manufactured for export to numerous countries throughout the world. Daikin Industries, Ltd. does not have control over which products are exported to and used in a particular country. Prior to purchase, please therefore confirm with your local authorized importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorized parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

**Cautions on product corrosion**

1. The units should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the unit close to the sea shore, contact your local distributor.

**Dealer*****DAIKIN INDUSTRIES, LTD.***

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