

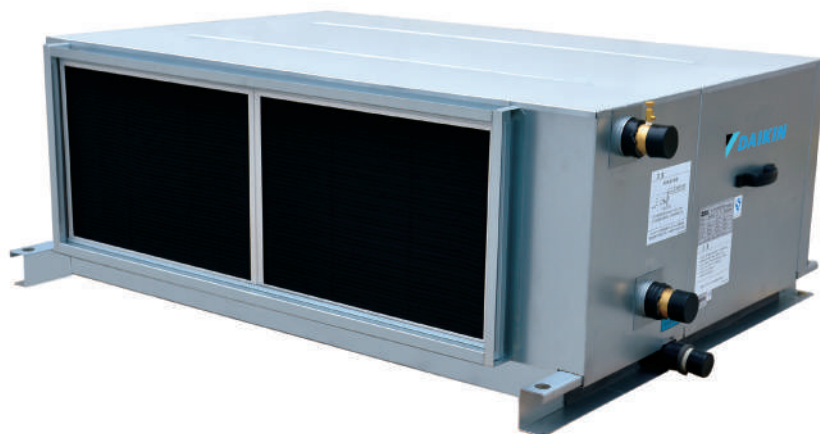
FUW Cabinet Air Handling Units

Horizontal Unit

Model: FUW020F-FUW150F
Air Flow: 2000m³/h-15000m³/h

Vertical Unit

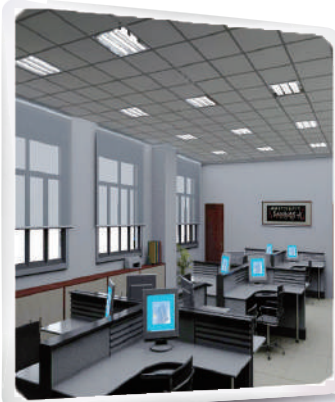
Model: FUW040V-FUW250V
Air Flow: 4000m³/h-25000m³/h





➤ Overview

DAIKIN FUW cabinet air handling unit adopts high-strength cabinet, professionally selected and precision machined coil, efficient fan with low noises and filter to better meet wide customers' requirements for air handling units and save the indoor space for customers. FUW products showcase the characteristics such as high external total pressure, large cooling capacity, compact size and low noises and can be widely applied to central air conditioning projects such as hotels, shopping malls, airports, hospitals, factories and office buildings, especially suitable for occasions where the installation space is restricted, the noise requirement is high, and an old house is reconstructed.



Commercial office building



Shopping mall



Light industrial workshop

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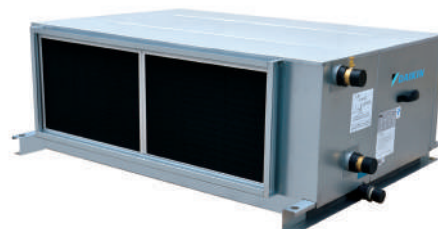
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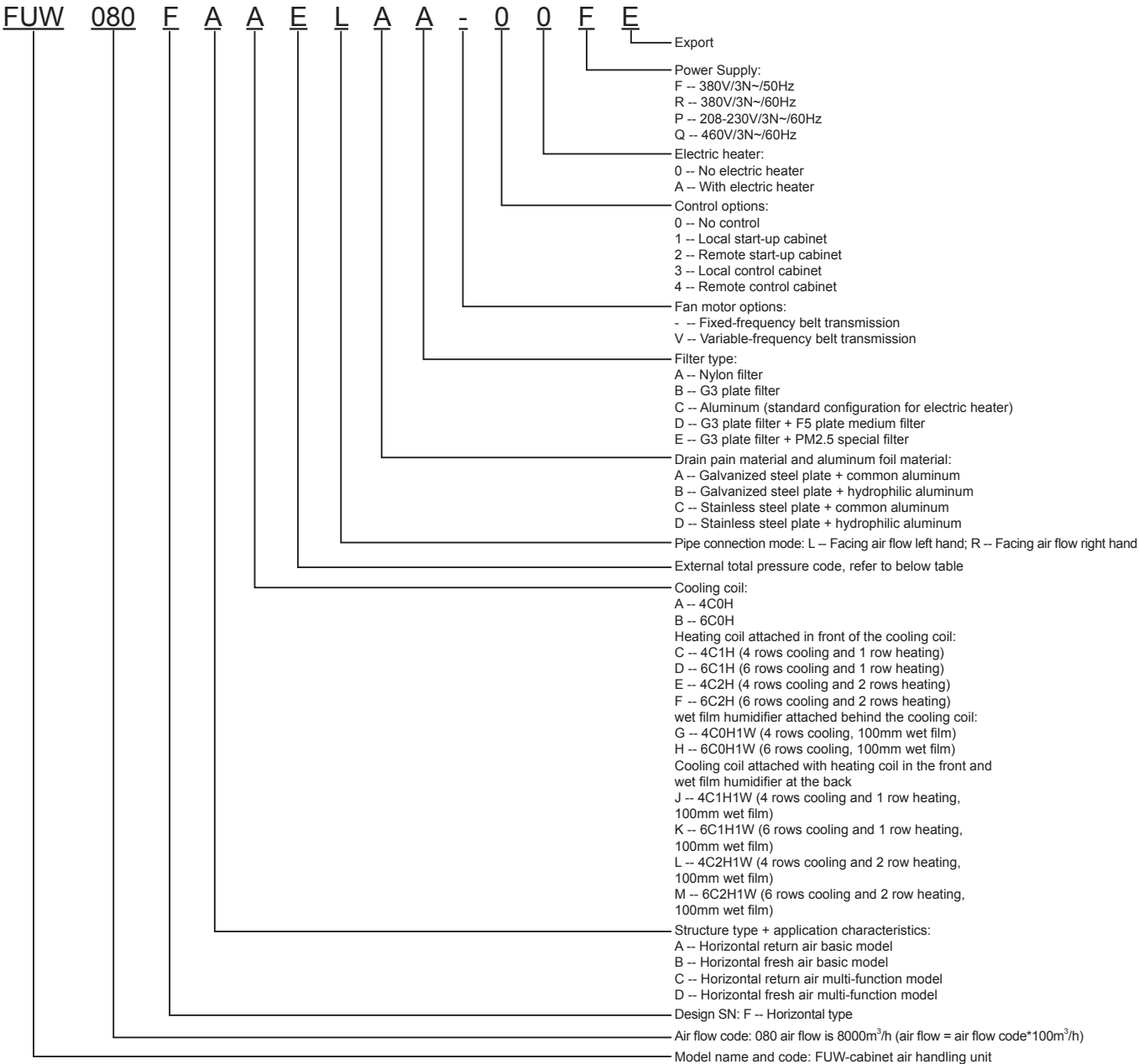
➤ FUW horizontal cabinet air handling unit

Ten models of FUW horizontal cabinet air handling units are available, with the unit air flow in the range of 1000 to 15000m³/h, cooling capacity in the range of 11.4 to 260.2kW, and the external total pressure in the range of 75 to 850 Pa. The unit provides a lot of optional functions such as primary/medium-efficiency filter, heating coil, electric heater and wet film humidifier to meet various air handling systems.





Nomenclature



Unit: Pa

A	B	C	D	E	F	G	H	J
75	100	125	150	175	200	225	250	275
K	L	M	N	P	Q	R	S	
300	350	400	450	500	550	600	650	

Where:
 For the FUW020~070 models, the standard external total pressure of unit is 150, 225, or 300 Pa.
 For the FUW080~150 models, the standard external total pressure of unit is 225, 300, or 400Pa.

- Basic model configuration: primary filter (digit 13: A) + cooling coil + fan
- Multi-function model configuration: primary filter + (medium filter) + (heating coil + electric heater) + cooling coil + (wet film) + fan; The function section in () is optional.
- The above nomenclature applies only to the standard units. For a unit of which the model is selected by the software, the nomenclature is automatically generated.

Unit features

Excellent cabinet performance

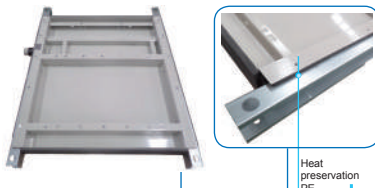
- The cabinet adopts quality galvanized steel plates, antirust and corrosion resistant; the specially selected new type XPE heat preservation material is attached inside, with superexcellent thermal insulation and sound-absorbing effect. We also supply high strength galvanized steel sheets coated with electrostatic epoxy spraying for option.

Excellent anti-cold bridge performance

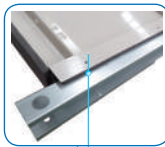
- The unit baseplate is designed as an intergrated drain pain, heat insulating material is attached outside the whole surface of air output plate, thoroughly avoiding cold bridge.
- Heat insulating material is attached between the external parts such as flange and the panel so that the unit is free of condensation even in a high humidity environment.

Excellent tightness

- Pressure-proof and wear-proof seal ring is filled in at all the joints between the cabinet and exposed parts and mechanically fixed to effectively reduce air leakage.



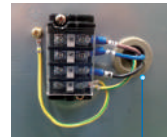
Heat preservation PE attached outside the overall drain pan



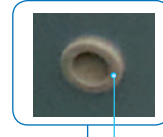
Heat preservation PE



Heat preservation PE attached between the flange and panel



Seal ring attached to the panel wiring hole



Seal ring



Header pipe sealing

Seal ring

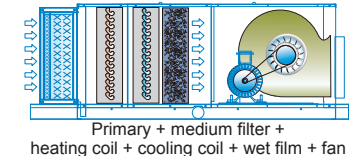
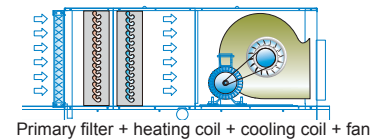
Different assembly to meet requirements of various air handling systems

Common comfortable system

- Two-pipe system and four-pipe system for option to serve various air handling system of various scenarios
- Electric heater optional, winter fresh air pretreatment to prevent cracking of the coil
- Able to meet the temperature control requirement of comfortable places

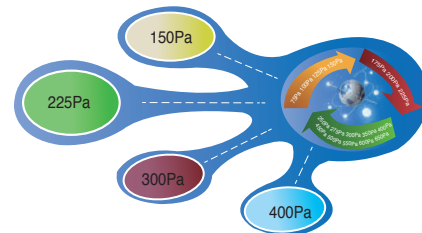
Common cleaning system

- Two stage air purification to achieve higher purification
- Wet film humidifier to improve indoor dry air
- Serving places with general requirements for the air purification, temperature and humidity



Multiple external total pressures and parts for selection

- Multiple standard external total pressures are available, and multiple optional parts can also be provided: primary/medium-efficiency filter (G3/aluminum/F5/PM2.5) for filtration and purification, four-pipe system coil, fresh air preheated electric heater, wet film humidifier, stainless steel drain pan, etc., making selection more rapid, convenient and flexible.





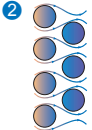
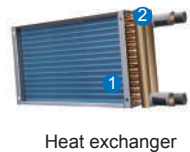
Available assembly of Function Sections

Function section	Basic model configuration			Optional configuration of the multi-function model											
	Primary filter section	Cooling coil section		Fan section	Primary filter section	Medium filter section		Heating coil section	Cooling coil section		Electric heater section	Wet film humidifying section	Fan section		
Optional parts	Nylon	4 rows	6 rows	Fan	Aluminum	G3	F5 flat type	PM2.5 special filter	1 row	2 rows	4 rows	6 rows	Electrical heating tube	100mm wet film humidifier	Fan
Diagrams															

Note: ● When the unit select electric heater section, the filter must be aluminum filter; heating coil and electric heater section can't be selected at the same time.
 ● The external total pressure, dimensions, and weight of the unit vary with requirements of the optional function section. For details, see our selection software.

Heat exchanger

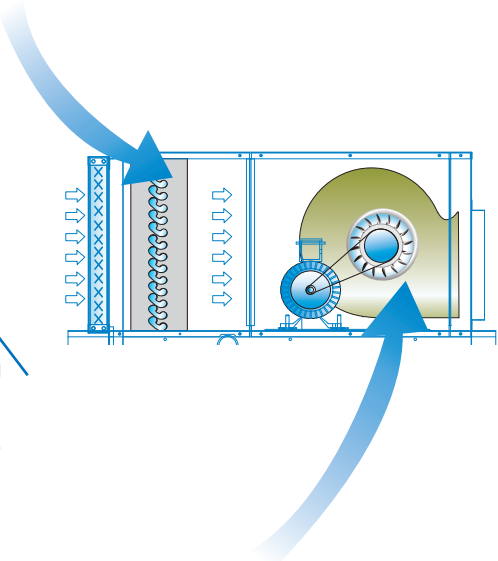
- The copper tubes with a thin wall and the latest type of fins are adopted, and mechanical expanding ensures close fit between the copper tubes and fins, thus achieving the optimal heat exchange efficiency of the coil.
- Before delivery, all the heat exchangers will do pressure leakage test by filling nitrogen according to the national standard requirements to avoid leakage.



- Quality copper tubes are laid out in the cross counterflow mode to enhance the air turbulence and improve the heat exchange.



- Fins are corrugated aluminium sheets, which increase the heat exchange area, optimize the heat exchange, make condensate water flow down easily and prevent water drops from being gathered on the fin surface.
- FPI, 11 to 14 fins can be selected.
- Hydrophilic aluminum foil is optional.



Fan motor

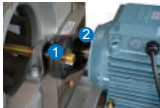
- The fan is a high-efficiency and low-noise forward DWDI fans, and the professional software ensures that all the fans operate in the safe and efficient status.
- The motor is a fully-enclosed three-phase asynchronous motor, with the protection grade up to IP55 and insulation grade F, applicable to adverse application environments.



- The impeller will be strict static and dynamic balanced, stable and low noise.



- Multiple motor type: single speed, double speed, and variable frequency.



- 1 The narrow V type belt of international famous brand is adopted;
- 2 Pulley and push structure to facilitate quick assembly and overhaul.



- 1 Flexible joint is adopted at the air outlet of fan to effectively isolate vibration.
- 2 The motor is configured with a slide rail regulating device, which can be adjusted to the best installation position to make maintenance convenient.



- 1 A door handle is installed at the access hole to facilitate access;
- 2 The motor junction box is far away from coil inlet and outlet to prevent leakage of electricity, safe and reliable.

Filter

- The anti-mildew primary nylon filter of stand configuration with low initial resistance greatly reduces the unit power consumption. It can be repeatedly cleaned and used easily and conveniently.
- A lot of filter forms are available, aluminum, G3, plate F5 with medium efficiency, and PM2.5 special filter.

PM2.5 special filter

- The charged filter material is used. Static electricity makes dust change the motion trail and crash into the obstacle, thus absorbing the dust. The filtering ratio of ultrafine particles with the diameter of 2.5um is over 99%*.

Note: *It is based on the test result provided by the heating ventilation and air conditioning laboratory of Tongji University. Test conditions: The dry bulb temperature is 25°C to 26°C, the relative humidity is 58% to 60%, and the air speed is lower than 2.5 m/s.

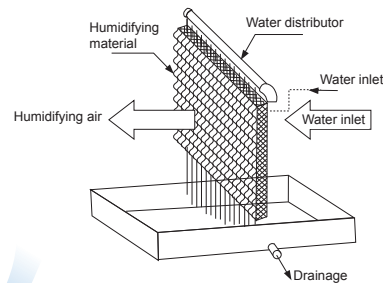


PM2.5 special filter

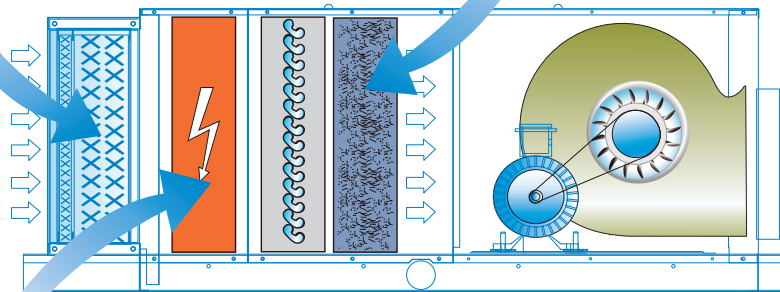
Wet film humidifier

Direct drainage working principle of wet film

- The clean tap water passing through the solenoid valve flows directly into the water distributor at the top of the wet film. After drop to the wet film material, it will be flowed down by the drain plug (water will not be recycled). "Hot air passing through the wet film is dampened and cooled (which is called equal enthalpy humidification). During this process, some water in the wet film is evaporated without consuming additional energy.
- The humidifier applies to humidification of civil buildings and industrial cooling and can satisfy places with common humidity requirements.



Wet film direct-drainage humidifier

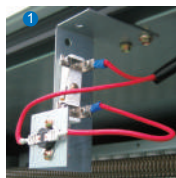


Electric heater

- It uses electric energy to heat air and the capacity can be adjusted by groups. The electric heater tube is made of stainless steel tube wrapped with stainless steel sheets.
- The electric heater section provides the triple protection device of over high temperature protector (fuse wire and temperature switch) and no-air power-off protector to eradicate the potential safety hazard arising from superheat of the heater.
- It applies to winter fresh air pretreatment and prevents frost cracking of the coil.



Electric heater section



Over high temperature protection device



No-air power-off protection device

Note: The standard power supply form is 380V/3N/50Hz. If the unit adopts other power supply, please contact the factory in advance.

FUW professional software

- Professional selection software of air handling units
- Providing multiple model selection configurations according to customers' requirements
- Automatically exporting unit performance parameters, CAD appearance drawings and quotations
- Chinese and English versions





Specifications (basic model)

Model		FUW020F	FUW030F	FUW040F	FUW050F	FUW060F	FUW070F	FUW080F	FUW100F	FUW120F	FUW150F	
Nominal air flow (m³/h)		2000	3000	4000	5000	6000	7000	8000	10000	12000	15000	
External total pressure (Pa)	I	150	150	150	150	150	150	225	225	225	225	
	II	225	225	225	225	225	225	300	300	300	300	
	III	300	300	300	300	300	300	400	400	400	400	
Nominal cooling capacity (kW)	4 rows (return air)	11.4	18.1	22.6	29.3	34.1	42.6	48.7	61.2	73.6	93.3	
	4 rows (fresh air)	28.8	41.6	53.8	65.3	75.0	95.3	104.9	138.3	163.7	201.7	
	6 rows (return air)	15.5	23.0	29.1	36.6	44.0	53.5	58.9	81.3	93.0	117.0	
	6 rows (fresh air)	35.3	53.8	66.6	89.1	101.1	130.4	142.5	177.3	210.4	260.2	
Nominal heating capacity (kW)	4 rows (return air)	18.9	28.8	35.1	48.1	55.3	68.0	75.7	102.2	122.7	153.3	
	4 rows (fresh air)	31.1	45.8	56.8	79.6	86.5	108.9	121.6	166.1	199.3	249.2	
	6 rows (return air)	21.8	32.3	40.9	54.9	61.6	78.0	86.9	122.9	144.8	180.9	
	6 rows (fresh air)	35.2	51.8	69.6	93.7	106.4	132.3	149.1	194.4	232.2	291.7	
Nominal chilled water flow (l/s)	4 rows (return air)	0.54	0.86	1.07	1.40	1.63	2.03	2.32	2.92	3.50	4.44	
	4 rows (fresh air)	1.37	1.98	2.56	3.11	3.57	4.54	5.00	6.59	7.79	9.60	
	6 rows (return air)	0.74	1.10	1.38	1.74	2.10	2.55	2.80	3.87	4.43	5.57	
	6 rows (fresh air)	1.68	2.56	3.17	4.24	4.81	6.21	6.79	8.44	10.02	12.39	
Nominal hot water flow (l/s)	4 rows (return air)	0.45	0.69	0.84	1.15	1.32	1.62	1.80	2.43	2.92	3.65	
	4 rows (fresh air)	0.74	1.09	1.35	1.89	2.06	2.59	2.89	3.96	4.75	5.93	
	6 rows (return air)	0.52	0.77	0.97	1.31	1.47	1.86	2.07	2.93	3.45	4.31	
	6 rows (fresh air)	0.84	1.23	1.66	2.23	2.53	3.15	3.55	4.63	5.53	6.94	
Nominal chilled water resistance (kPa)	4 rows (return air)	11.6	34.1	29.4	24.8	37.2	29.7	41.5	26.4	31.3	43.8	
	4 rows (fresh air)	55.6	29.4	62.3	15.0	25.7	27.9	39.6	71.3	75.7	83.7	
	6 rows (return air)	30.5	25.2	23.2	15.7	13.8	22.8	29.6	61.6	22.9	31.5	
	6 rows (fresh air)	20.0	55.6	40.8	67.5	96.0	95.0	125.0	81.0	74.8	82.6	
Coil	Type	Copper tube with a new type of corrugated aluminum fins										
	Piece/inch	12										
	Working pressure (MPa)	1.6										
	Inlet/outlet pipe	R1-1/2	R1-1/2	R1-1/2	R2	R2	R2	R2	R2-1/2	R2-1/2	R2-1/2	
	Condensing water pipe	R1-1/4										
Fan	Type/material	High-efficiency forward centrifugal fans with multiple wings/galvanized steel plates										
	Drive type	V-belt transmission										
	Air discharge	Front Invert discharge										
	Power supply	380V/3N ~ /50Hz										
Motor	Type	Three-phase asynchronous motor, insulation grade F and protection grade IP55										
	Power (kW)	I	0.55	0.55	0.75	1.1	1.1 (1.5)	1.5	2.2	3	3	4
		II	0.55	0.55 (0.75)	0.75 (1.1)	1.5	1.5	1.5	2.2	3	3 (4)	5.5
		III	0.55	0.75	1.1	1.5	1.5 (2.2)	2.2	2.2 (3)	4	4	5.5
Filter	Type	Nylon filter with primary efficiency										
	Thickness (mm)	8										
Cabinet	Type	Quality galvanized steel plate, with efficient soundproof and heat insulating material XPE attached inside										
	Dimension of basic model	Length (mm)	870	870	870	870	870	900	900	990	990	
Weight of basic model (kg)	Width (mm)	800	1040	1300	1550	1800	1720	1800	2180	2270	2490	
	Height (mm)	498	498	498	498	498	620	620	620	715	740	
	4 rows	77	99	123	128	142	166	174	232	280	318	
Weight of basic model (kg)	6 rows	80	103	129	135	151	176	185	247	298	340	

NOTE:

- THE ABOVE PARAMETERS ARE FOR BASIC MODEL ONLY; IN CASE OF ANY SPECIAL REQUIREMENT, DAIKIN WILL PROVIDE A SPECIAL DESIGN.
- NOMINAL RETURN AIR COOLING CONDITION: 27°C (DB)/19.5°C (WB); NOMINAL FRESH AIR COOLING CONDITION: 35°C (DB)/28°C (WB); NOMINAL CHILLED WATER INLET AND OUTLET TEMPERATURES: 7°C (WATER INLET); 12°C (WATER OUTLET);
- NOMINAL RETURN AIR HEATING CONDITION: 21°C (DRY BULB); NOMINAL FRESH AIR HEATING CONDITION: 0°C (DRY BULB); NOMINAL HEATING WATER INLET AND OUTLET TEMPERATURES: 60°C (WATER INLET); 50°C (WATER OUTLET);
- THE WEIGHT LISTED IN THE ABOVE TABLE IS NET WEIGHT OF UNIT. THE OPERATING WEIGHT MAY INCREASE BY ABOUT 20%;
- VALUE INSIDE () IN THE ABOVE TABLE IS THE MOTOR POWER OF UNIT WITH 6 ROWS OF COILS;
- FOR THE MAXIMUM EXTERNAL TOTAL PRESSURE CORRESPONDING TO MOTOR POWER, SEE P21;
- THE COIL CIRCUIT FOR UNITS WITH FULL RETURN AIR (THE BASIC MODEL IS "A") AND UNITS WITH FULL FRESH AIR (THE BASIC MODEL IS "B") MAY BE DIFFERENT. PLEASE SPECIFY THE INLET AIR WORKING CONDITIONS WHILE PLACING ORDERS. DAIKIN CAN PROVIDE COMPUTER-AIDED MODEL SELECTION TO MEET SPECIAL REQUIREMENTS. FOR DETAILED PARAMETERS, PLEASE REFER TO THE MODEL SELECTION RESULTS.



Specifications (Optional parts parameters of the multi-function model)

Model		FUW020F	FUW030F	FUW040F	FUW050F	FUW060F	FUW070F	FUW080F	FUW100F	FUW120F	FUW150F		
Nominal air flow (m³/h)		2000	3000	4000	5000	6000	7000	8000	10000	12000	15000		
Heating coil	Nominal heating capacity (kW)	1 row (return air)	5.8	9.5	13.0	18.0	22.1	25.2	29.1	35.4	42.4	53.9	
		1 row (fresh air)	10.7	16.4	21.8	30.6	37.4	42.6	49.0	60.3	72.3	90.4	
		2 rows (return air)	11.3	17.9	24.6	31.3	38.0	44.0	50.6	53.7	77.1	97.2	
		2 rows (fresh air)	19.7	28.7	31.6	52.4	63.5	69.7	76.3	105.5	126.6	155.7	
	Nominal heating water flow (l/s)	1 row (return air)	0.14	0.23	0.31	0.43	0.53	0.60	0.69	0.84	1.01	1.28	
		1 row (fresh air)	0.25	0.39	0.52	0.73	0.89	1.01	1.17	1.44	1.72	2.15	
		2 rows (return air)	0.27	0.43	0.59	0.75	0.91	1.05	1.21	1.28	1.83	2.31	
		2 rows (fresh air)	0.47	0.68	0.75	1.25	1.51	1.66	1.82	2.51	3.02	3.71	
	Nominal heating water resistance (kPa)	1 row (return air)	0.5	0.7	1.4	3.3	5.5	4.8	6.4	7.5	6.6	9.3	
		1 row (fresh air)	1.2	2.2	4.4	9.6	15.3	13.4	17.9	20.0	17.3	23.8	
		2 rows (return air)	1.7	4.3	8.9	16.3	27.0	22.8	30.3	33.6	32.2	44.5	
		2 rows (fresh air)	4.3	10.5	14.7	43.3	70.7	66.2	68.6	75.3	63.2	70.1	
	Coil	Type	Copper tube with a new type of corrugated aluminum fins										
		Piece/inch	12										
		Working pressure (MPa)	1.6										
		Inlet/outlet pipe	R1-1/2	R1-1/2	R1-1/2	R1-1/2	R1-1/2	R1-1/2	R1-1/2	R1-1/2	R2	R2	R2
Condensing water pipe		R1-1/4											
Electric heater	Maximum electric heater power (kW)	6.7	10.1	13.4	16.8	20.1	23.5	26.8	33.5	40.2	50.3		
Wet film humidifier	Maximum humidifying capacity (kg/h)	9.1	13.4	18.1	22.5	27.0	32.0	33.8	41.8	49.3	60.9		
Filter	Type	G3 / aluminum / plate F5 with medium efficiency / PM2.5 filter											
	Thickness (mm)	21 / 21 / 96 / 65											
Multi-function cabinet dimensions	Type I	Length (mm)	970	970	970	970	970	970	1000	1000	1090	1090	
		Width (mm)	800	1040	1300	1550	1800	1720	1800	2180	2270	2490	
		Height (mm)	498	498	498	498	498	498	620	620	620	715	740
	Type II	Length (mm)	1100	1100	1100	1100	1100	1100	1100	1081	1102	1220	1220
		Width (mm)	800	1040	1300	1550	1800	1720	1800	2180	2270	2490	
		Height (mm)	498	498	498	498	498	498	498	620	620	620	715

NOTES:

- THE ABOVE TABLE PROVIDES THE PARAMETERS OF ALL OPTIONAL PARTS FOR MULTI-FUNCTION MODELS; THE UNIT APPEARANCE DIMENSIONS, UNIT WEIGHT, AND TOTAL EXTERNAL TOTAL PRESSURE VARY WITH THE REQUIREMENTS OF OPTIONAL FUNCTION SEGMENTS. FOR DETAILS, SEE THE MODEL SELECTION SOFTWARE OF DAIKIN;
- NOMINAL RETURN AIR HEATING CONDITION: 21°C (DRY BULB); NOMINAL FRESH AIR HEATING CONDITION: 0°C (DRY BULB); NOMINAL HEATING WATER INLET AND OUTLET TEMPERATURES: 60°C (WATER INLET); 50°C (WATER OUTLET);
- THE MULTI-FUNCTION TYPE- I CABINET DOES NOT CONTAIN THE HEATING SECTION (ELECTRIC HEATER OR HEATING COIL).

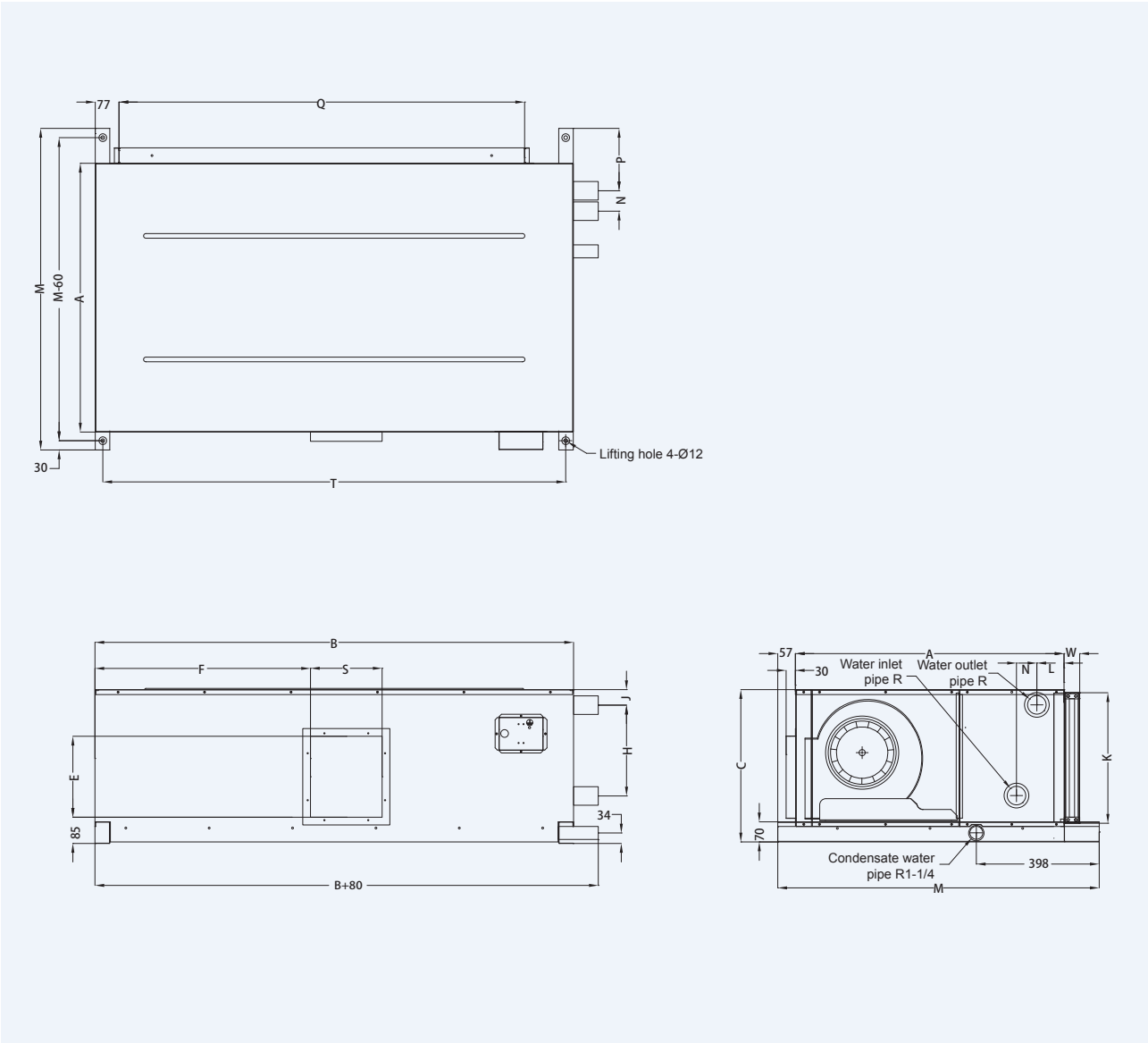
Quick reference table of part resistance								
Part	Nylon	Aluminum	G3	F5	PM2.5	1 row	2 rows	Wet film humidifier (100 mm)
Resistance (Pa)	25	50	92	128	119	21	49	50

NOTE:

- THE RESISTANCE VALUE OF ABOVE PART IS THE AVERAGE VALUE OF EACH MODEL UNDER THE NOMINAL AIR FLOW. FOR THE DETAILED RESISTANCE UNDER SPECIFIED AIR FLOW, SEE THE MODEL SELECTION RESULT.



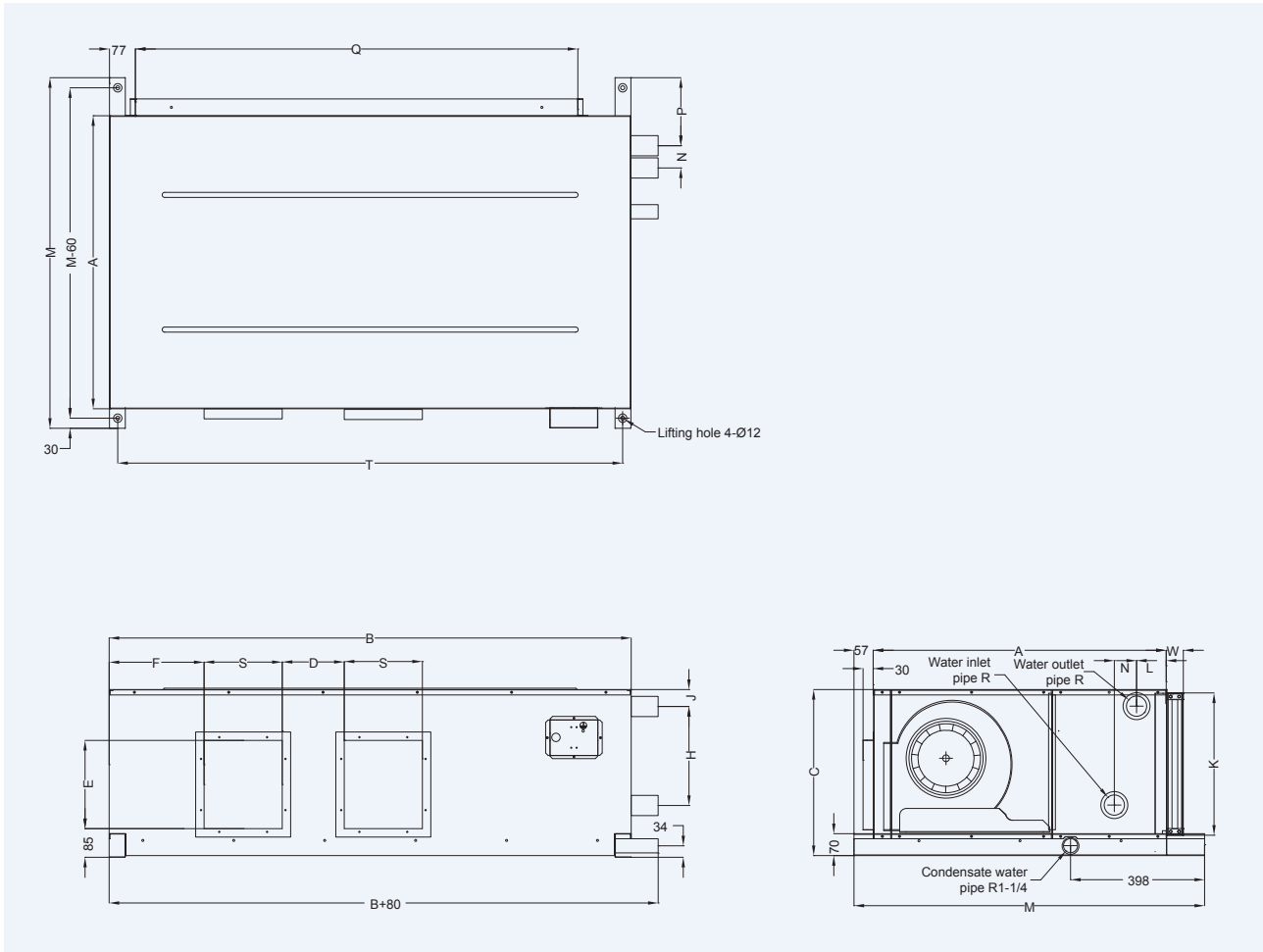
Dimensions of FUW horizontal cabinet air handling unit (basic model)



Dimensions	Cabinet dimensions			Lifting holes		Connection pipe								Return air inlet		Supply air outlet			Filter frame (optional)		
	A	B	C	M	T	H	J	L (4R)	N (4R)	P (4R)	L (6R)	N (6R)	P (6R)	R	K	Q	F	E	S	W (nylon)	W (G3/aluminum)
FUW020F	870	800	498	1041	749	294	50	88	66	202	88	110	202	R1-1/2	423	564	155	262	232	51	66
FUW030F	870	1040	498	1041	989	294	50	88	66	202	88	110	202	R1-1/2	423	804	209	262	298	51	66

NOTES:
 ■ THE UNIT OF CONNECTION PIPE (R) IS INCH, AND OTHER UNITS ARE MM.
 ■ 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.

Dimensions of FUW horizontal cabinet air handling unit (basic model)

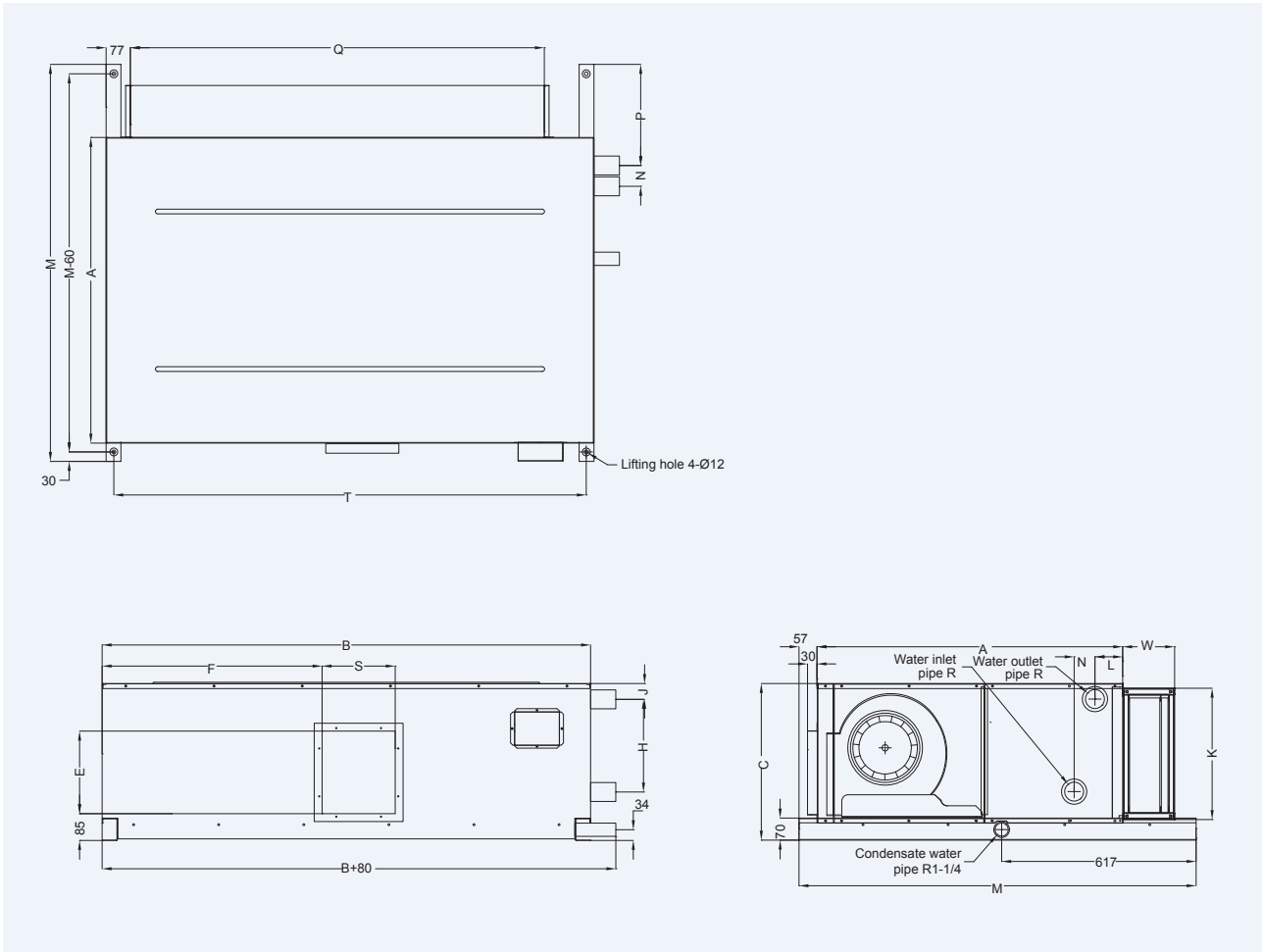


Dimensions	Cabinet dimensions			Lifting holes		Connection pipe								Return air inlet		Supply air outlet				Filter frame (optional)		
	A	B	C	M	T	H	J	L (4R)	N (4R)	P (4R)	L (6R)	N (6R)	P (6R)	R	K	Q	D	F	E	S	W (nylon)	W (G3/aluminum)
FUW040F	870	1300	498	1041	1249	294	50	88	66	202	88	110	202	R1-1/2	423	1064	184	166	262	232	51	66
FUW050F	870	1550	498	1041	1499	294	50	88	66	202	88	110	202	R2	423	1314	184	282	262	232	51	66
FUW060F	870	1800	498	1041	1749	294	50	88	66	202	88	110	202	R2	423	1564	244	307	262	298	51	66
FUW070F	870	1720	620	1041	1669	395	60	88	66	202	88	110	202	R2	545	1484	214	312	289	265	51	66
FUW080F	900	1800	620	1071	1749	395	60	88	66	202	88	110	202	R2	545	1564	264	272	289	331	51	66
FUW100F	900	2180	620	1071	2129	392	64	91	137.5	205	83	137.5	197	R2-1/2	545	1924	244	476	341	309	51	66
FUW120F	990	2270	715	1161	2219	456	65	91	137.5	205	83	137.5	197	R2-1/2	640	2013	294	416	404	373	51	66
FUW150F	990	2490	740	1161	2439	519	64	91	137.5	205	83	137.5	197	R2-1/2	665	2223	294	516	404	373	51	66

NOTES:

- THE UNIT OF CONNECTION PIPE (R) IS INCH, AND OTHER UNITS ARE MM.
- 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.

Dimensions of FUW horizontal cabinet air handling unit (type-I cabinet of multi-function model)

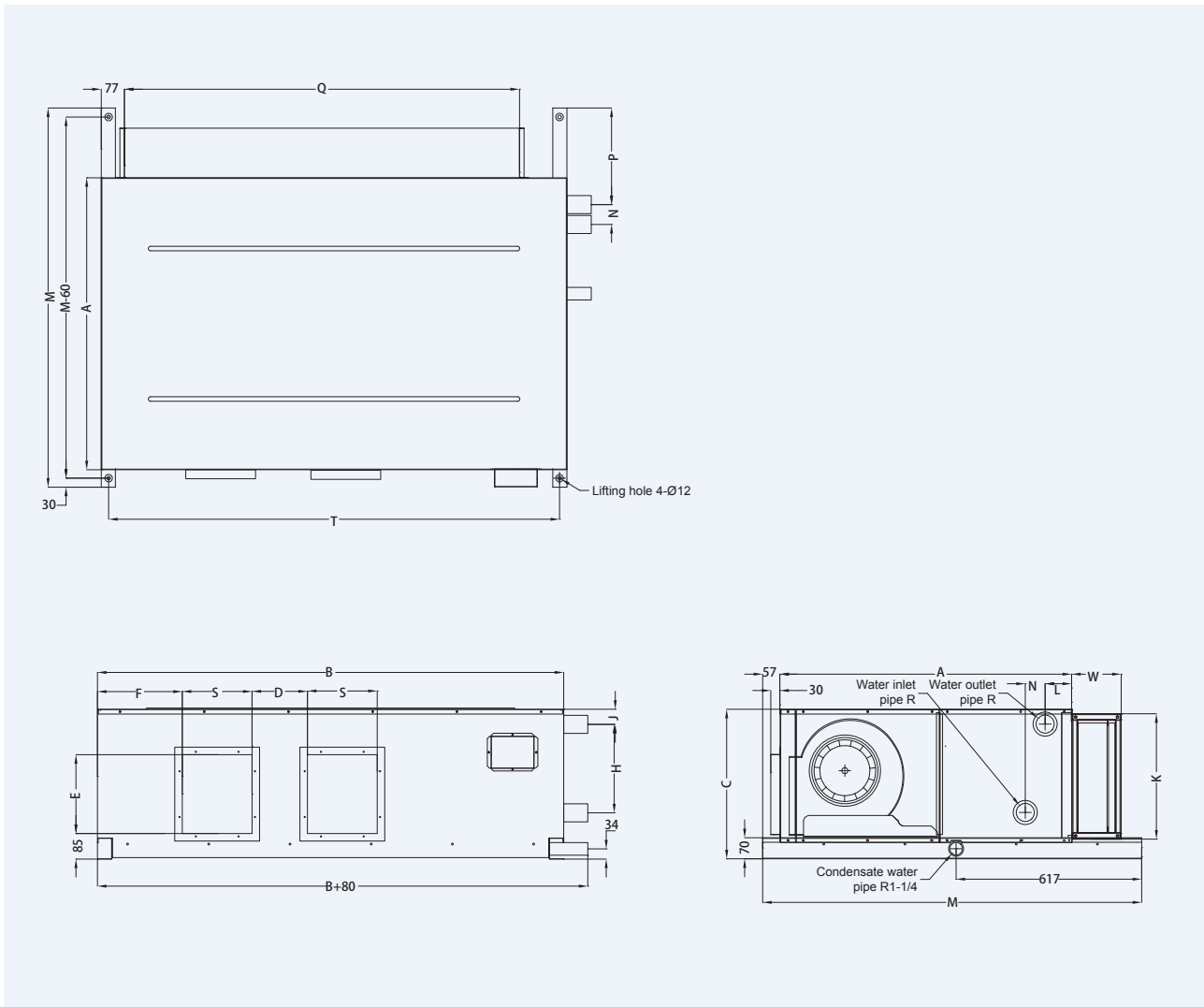


Dimensions	Cabinet dimensions			Lifting holes		Connection pipe							Return air inlet		Supply air outlet			Filter frame (optional)				
	A	B	C	M	T	H	J	L (4R)	N (4R)	P (4R)	L (6R)	N (6R)	P (6R)	R	K	Q	F	E	S	W (nylon)	W (G3/aluminum)	W (G3+F5/G3+PM2.5)
FUW020F	970	800	498	1230	749	294	50	88	66	187	88	110	187	R1-1/2	423	564	155	262	232	51	66	165
FUW030F	970	1040	498	1230	989	294	50	88	66	187	88	110	187	R1-1/2	423	804	209	262	298	51	66	165

NOTES:

- THE UNIT OF CONNECTION PIPE (R) IS INCH, AND OTHER UNITS ARE MM.
- 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.
- THE MULTI-FUNCTION TYPE- I CABINET DOES NOT CONTAIN THE HEATING SECTION (ELECTRIC HEATER OR HEATING COIL).

Dimensions of FUW horizontal cabinet air handling unit (type-I cabinet of multi-function model)



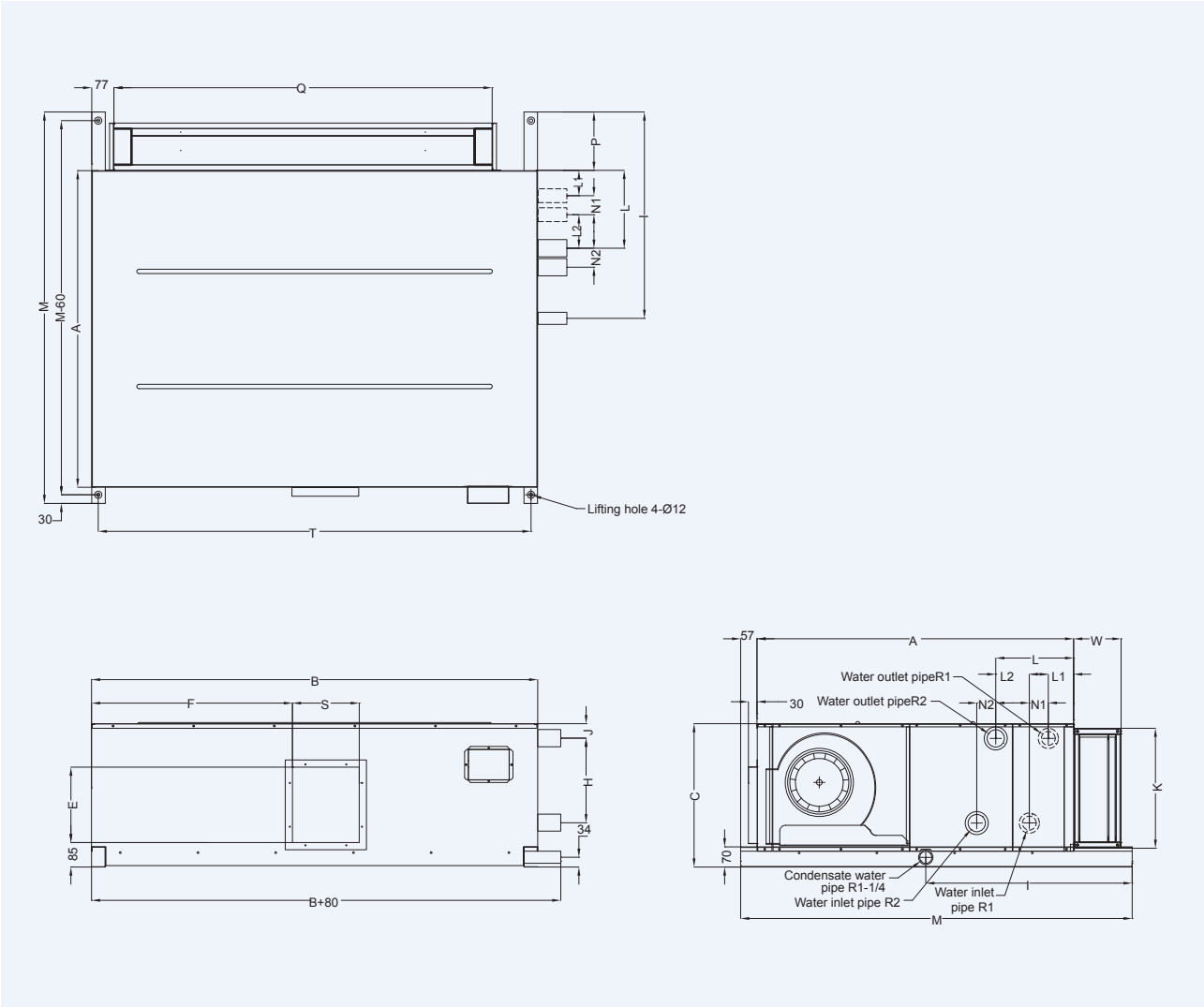
Dimensions	Cabinet dimensions			Lifting holes		Connection pipe							Return air inlet		Supply air outlet				Filter frame (optional)				
	A	B	C	M	T	H	J	L (4R)	N (4R)	P (4R)	L (6R)	N (6R)	P (6R)	R	K	Q	D	F	E	S	W (nylon)	W (G3/aluminum)	W (G3+F5/G3+PM2.5)
FUW040F	970	1300	498	1230	1249	294	50	88	66	187	88	110	187	R1-1/2	423	1064	184	166	262	232	51	66	165
FUW050F	970	1550	498	1230	1499	294	50	88	66	187	88	110	187	R2	423	1314	184	282	262	232	51	66	165
FUW060F	970	1800	498	1230	1749	294	50	88	66	187	88	110	187	R2	423	1564	244	307	262	298	51	66	165
FUW070F	970	1720	620	1230	1669	395	60	88	66	187	88	110	187	R2	545	1484	214	312	289	265	51	66	165
FUW080F	1000	1800	620	1260	1749	395	60	88	66	187	88	110	187	R2	545	1564	264	272	289	331	51	66	165
FUW100F	1000	2180	620	1260	2129	392	64	91	137.5	190.0	83	137.5	182	R2-1/2	545	1924	244	476	341	309	51	66	165
FUW120F	1090	2270	715	1350	2219	456	65	91	137.5	190.0	83	137.5	182	R2-1/2	640	2013	294	416	404	373	51	66	165
FUW150F	1090	2490	740	1350	2439	519	64	91	137.5	190.0	83	137.5	182	R2-1/2	665	2223	294	516	404	373	51	66	165

NOTES:

- THE UNIT OF CONNECTION PIPE (R) IS INCH, AND OTHER UNITS ARE MM.
- 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.
- THE MULTI-FUNCTION TYPE- I CABINET DOES NOT CONTAIN THE HEATING SECTION (ELECTRIC HEATER OR HEATING COIL).



Dimensions of FUW horizontal cabinet air handling unit (type-II cabinet of multi-function model)

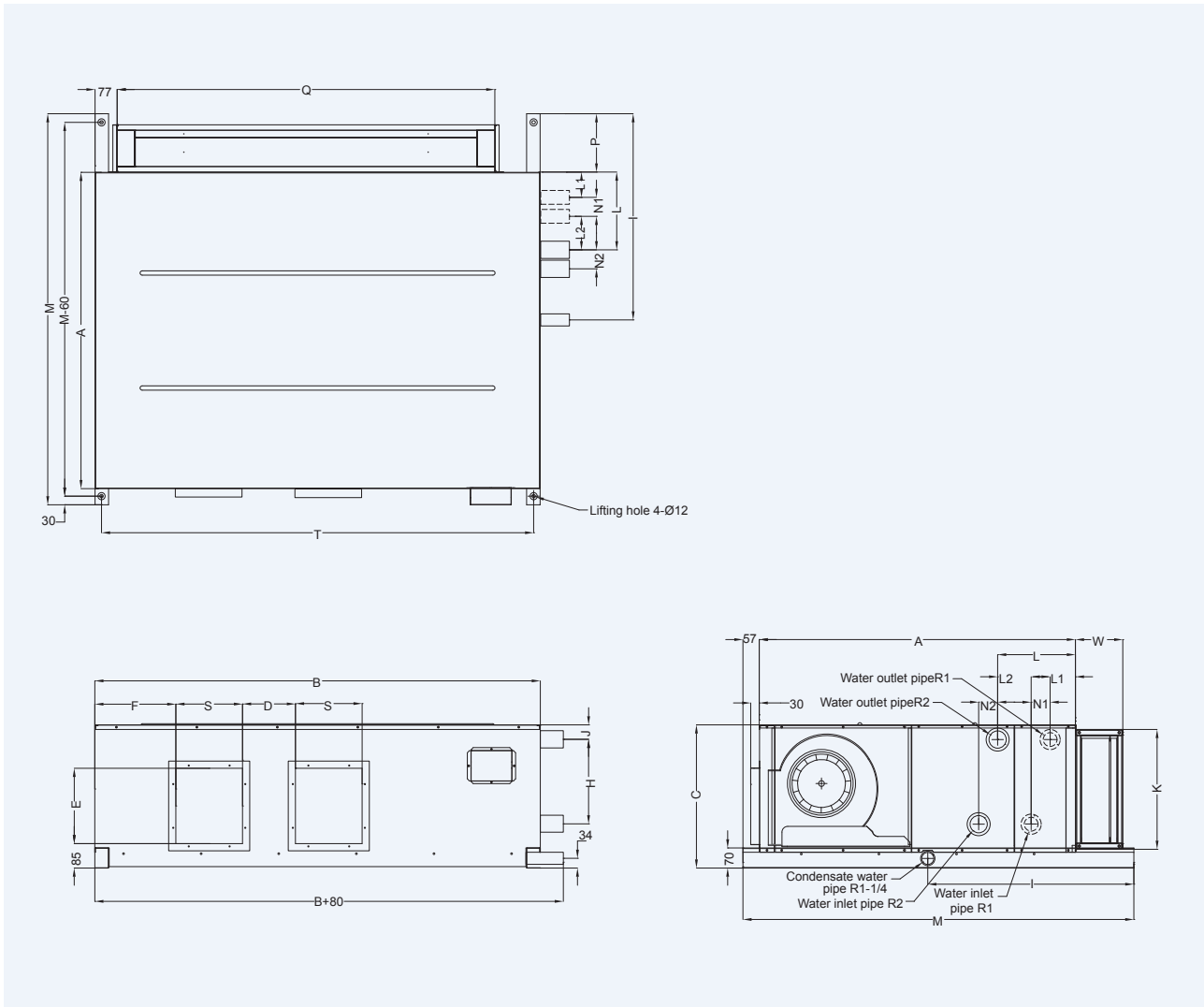


Dimensions	Cabinet dimensions			Lifting holes		Connection pipe										Return air inlet		Supply air outlet			Filter frame (optional)				
	A	B	C	M	T	H	I	J	L	L1	L2	N1 (1R, 2R)	N2 (4R)	N2 (6R)	P	R1	R2	K	Q	F	E	S	W (nylon)	W (G3/aluminum)	W (G3+F5/G3+PM2.5)
FUW020F	1100	800	498	1360	749	294	717	50	271	88	117	66	66	110	203	R1-1/2	R1-1/2	423	564	155	262	232	51	66	165
FUW030F	1100	1040	498	1360	989	294	717	50	271	88	117	66	66	110	203	R1-1/2	R1-1/2	423	804	209	262	298	51	66	165

NOTES:

- THE UNIT OF CONNECTION PIPE (R1/R2) IS INCH, AND OTHER UNITS ARE MM.
- 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.
- FOR HEATING SECTION SELECTION FOR THE MULTI-FUNCTION TYPE-II CABINET, ONLY ONE CAN BE SELECTED BETWEEN HEATING COIL AND ELECTRIC HEATER. WHEN ELECTRIC HEATER IS SELECTED, THE FILTER IS CONFIGURED WITH AN ALUMINUM ACCORDING TO THE STANDARD, AND THE INLET AND OUTLET WATER PIPES IN THE FIGURE ARE DOTTED LINES AND DO NOT EXIST; WHEN HEATING COIL IS SELECTED, THE INLET AND OUTLET WATER PIPES IN THE FIGURE ARE SOLID LINES AND EXIST. FOR THE DETAILED PIPE ORIENTATION DIMENSIONS, SEE THE ABOVE TABLE.

Dimensions of FUW horizontal cabinet air handling unit (type-II cabinet of multi-function model)



Dimensions	Cabinet dimensions			Lifting holes		Connection pipe										Return air inlet		Supply air outlet					Filter frame (optional)			
	A	B	C	M	T	H	I	J	L	L1	L2	N1 (1R, 2R)	N2 (4R)	N2 (6R)	P	R1	R2	K	Q	D	F	E	S	W (nylon)	W (G3/aluminum)	W (G3+F5/G3+PM2.5)
FUW040F	1100	1300	498	1360	1249	294	717	50	271	88	117	66	66	110	203	R1-1/2	R1-1/2	423	1064	184	166	262	232	51	66	165
FUW050F	1100	1550	498	1360	1499	294	717	50	271	88	117	66	66	110	203	R1-1/2	R2	423	1314	184	282	262	232	51	66	165
FUW060F	1100	1800	498	1360	1749	294	717	50	271	88	117	66	66	110	203	R1-1/2	R2	423	1564	244	307	262	298	51	66	165
FUW070F	1100	1720	620	1360	1669	395	717	60	271	88	117	66	66	110	203	R1-1/2	R2	545	1484	214	312	289	265	51	66	165
FUW080F	1081	1800	620	1352	1749	395	679	60	272	91	115	66	66	110	214	R1-1/2	R2	545	1564	264	272	289	331	51	66	165
FUW100F	1102	2180	620	1372	2129	392	699	64	277	84	111	82	137.5	137.5	213	R2	R2-1/2	545	1924	244	476	341	309	51	66	165
FUW120F	1220	2270	715	1480	2219	456	737	65	321	91	147	83	137.5	137.5	201	R2	R2-1/2	640	2013	294	416	404	373	51	66	165
FUW150F	1220	2490	740	1480	2439	519	737	64	321	83	155	83	137.5	137.5	203	R2	R2-1/2	665	2223	294	516	404	373	51	66	165

NOTES:

- THE UNIT OF CONNECTION PIPE (R1/R2) IS INCH, AND OTHER UNITS ARE MM.
- 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.
- FOR HEATING SECTION SELECTION FOR THE MULTI-FUNCTION TYPE-II CABINET, ONLY ONE CAN BE SELECTED BETWEEN HEATING COIL AND ELECTRIC HEATER. WHEN ELECTRIC HEATER IS SELECTED, THE FILTER IS CONFIGURED WITH AN ALUMINUM ACCORDING TO THE STANDARD, AND THE INLET AND OUTLET WATER PIPES IN THE FIGURE ARE DOTTED LINES AND DO NOT EXIST; WHEN HEATING COIL IS SELECTED, THE INLET AND OUTLET WATER PIPES IN THE FIGURE ARE SOLID LINES AND EXIST. FOR THE DETAILED PIPE ORIENTATION DIMENSIONS, SEE THE ABOVE TABLE.

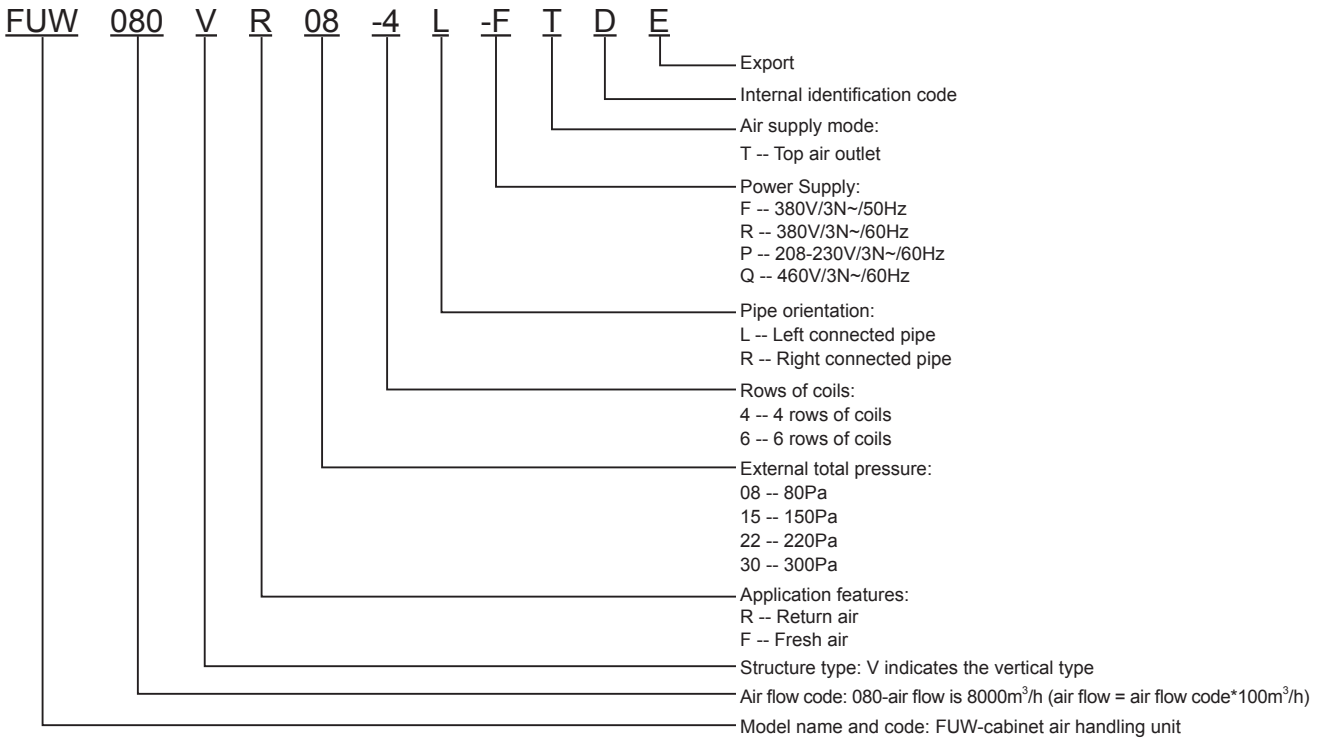


➤ FUW vertical cabinet air handling unit

The FUW vertical cabinet air handling unit adopts an electrostatic sprayed cabinet of high strength, and provides professional model selection and a lot of optional functions such as heating coil and wet film humidifier. It can meet requirements of wide customers. Ten models of FUW vertical cabinet air handling units are available, with the air flow in the range of 4000 to 25000 m³/h, cooling capacity in the range of 23 to 420 kW, and the external total pressure in the range of 90 to 550 Pa.



➤ Nomenclature



➤ Judgment of the left type and right type: if the pipe is connected on the left when you face the airflow direction, it is the left type; otherwise it is the right type.

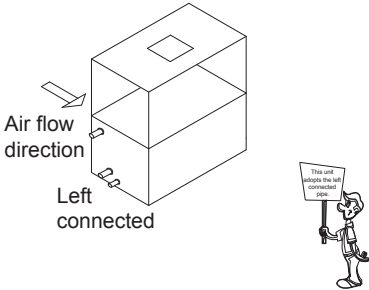


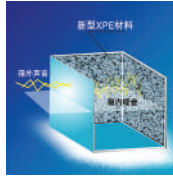
Diagram for judging the left/right type

Features

Quality materials and elaborate design

Cabinet

The electro galvanized plate treated with electrostatic spraying of pure polyester is used to realize efficient anticorrosion. The heat insulating material is new XPE material with excellent heat insulating and sound absorption effect, which does not absorb water and can effectively prevent cold bridge.



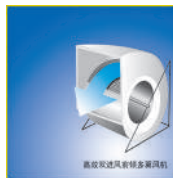
Heat exchanger

Mechanically expanded copper tubes with a thin wall and a new type of fins produced using leading-edge imported OAK manufacturing facilities achieve close fitting between copper tubes and fins, thus ensuring the optimal heat exchange efficiency of coils and paving the way for efficient operation of the unit.



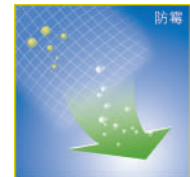
Fan

A high-efficiency forward fan with multiple wings provides a large air flow and stable and reliable performance with low noises. The fan bearing does not require adding lubricant, thus saving maintenance cost for customers.



Filter

It adopts the anti-mildew primary efficiency filter with low initial resistance, which greatly reduces the unit power consumption and can be easily cleaned and conveniently used.



Eradicating condensation dripping

- Heat preservation sponge attached to the inlet/outlet water pipe of coil
- Heat preservation sponge attached between the air outlet and air port plate



Performance

FUW units feature a high external total pressure, large cooling capacity, low noises, compact and simple structure, and easy installation and maintenance.



FUW professional software for model selection

- Professional model selection software of air handling units
- Providing multiple model selection configurations according to customers' requirements
- Automatically exporting unit performance parameters, CAD appearance drawings and quotations
- Chinese and English versions



Optional parts for unit

Function section	Standard configuration			Optional configuration	
	Primary filter section	Cooling coil section	Fan section	Heating coil section	Wet film humidifying section
Combination type	✓	✓	✓	✓	✓

Notes:

- Non-woven fabric filters are available for the selected unit as needed (nylon filter is adopted for the standard configuration);
- Cooling coil and heating coil can't be selected at the same time.
- The unit power and external total pressure may be changed accordingly;
- The length of the unit may be increased as actually needed. The detailed parameters are subject to the software model selection results.



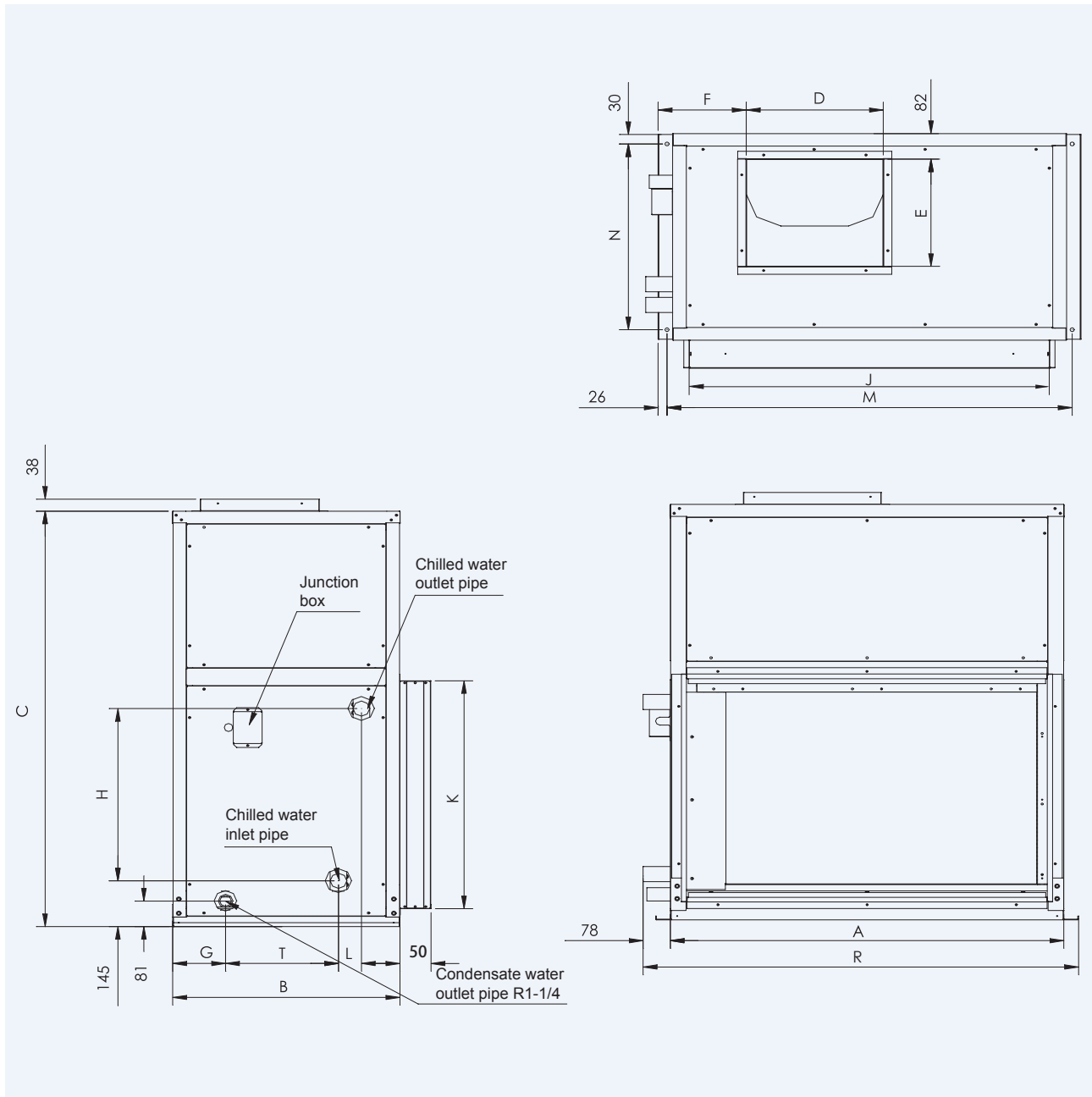
Specifications of FUW vertical cabinet air handling unit

Model	FUW040V	FUW050V	FUW060V	FUW080V	FUW100V	FUW120V	FUW150V	FUW180V	FUW200V	FUW250V		
Nominal air flow (m ³ /h)	4000	5000	6000	8000	10000	12000	15000	18000	20000	25000		
External total pressure (Pa)	I	-	80	-	-	-	-	-	-	-		
	II	150	150	150	150	150	150	-	150	150		
	III	220	220	220	220	220	220	220	220	220		
	IV	300	300	300	300	300	300	300	300	300		
Nominal cooling capacity (kW)	4 rows of coils (return air)	23	31	35	51	59	79	90	116	125	150	
	4 rows of coils (fresh air)	50	68	76	111	128	177	205	256	273	325	
	6 rows of coils (return air)	28	39	44	63	75	100	117	144	156	185	
	6 rows of coils (fresh air)	64	86	96	142	167	219	252	319	343	420	
Nominal heating capacity (kW)	4 rows of coils (return air)	36	48	55	82	97	126	149	185	201	245	
	4 rows of coils (fresh air)	58	76	87	129	153	199	237	294	319	398	
	6 rows of coils (return air)	44	57	66	95	115	145	176	214	234	289	
	6 rows of coils (fresh air)	69	90	105	150	182	229	279	338	369	461	
Nominal chilled water flow (l/s)	4 rows of coils (return air)	1.10	1.48	1.67	2.43	2.82	3.77	4.30	5.54	5.97	7.16	
	4 rows of coils (fresh air)	2.39	3.25	3.63	5.30	6.11	8.45	9.79	12.22	13.03	15.51	
	6 rows of coils (return air)	1.34	1.86	2.10	3.01	3.58	4.77	5.58	6.87	7.45	8.83	
	6 rows of coils (fresh air)	3.05	4.11	4.58	6.78	7.97	10.45	12.03	15.23	16.37	20.05	
Nominal heating water flow (l/s)	4 rows of coils (return air)	0.86	1.15	1.31	1.96	2.32	3.01	3.56	4.42	4.80	5.85	
	4 rows of coils (fresh air)	1.38	1.81	2.08	3.08	3.65	4.75	5.66	7.02	7.61	9.50	
	6 rows of coils (return air)	1.05	1.36	1.58	2.27	2.74	3.46	4.20	5.11	5.58	6.90	
	6 rows of coils (fresh air)	1.65	2.15	2.51	3.58	4.34	5.47	6.66	8.07	8.81	11.00	
Cooling conditions Water resistance (kPa)	4 rows of coils (return air)	40.9	62.8	78.5	35.0	44.7	30.7	38.8	56.0	63.9	36.3	
	4 rows of coils (fresh air)	68.1	41.1	50.5	22.7	29.1	45.0	58.1	67.7	67.6	76.9	
	6 rows of coils (return air)	29.1	45.0	56.9	26.4	35.1	48.4	63.9	41.8	48.2	30.9	
	6 rows of coils (fresh air)	62.2	79.0	78.8	49.3	65.3	81.5	81.3	74.1	84.6	95.0	
Coil	Type	Copper tube with a new type of corrugated aluminum fins										
	Piece/inch	12										
	Working pressure (MPa)	1.6										
	Size of inlet/outlet water pipe connector	R1-1/2	R1-1/2	R1-1/2	R2-1/2	R2-1/2	R2-1/2	R2-1/2	R2-1/2	R2-1/2	R2-1/2	
	Size of condensate water pipe connector	R1-1/4										
Fan	Type/material	High-efficiency forward-pitched centrifugal fans with multiple wings/galvanized steel plates										
	Transmission type	V-belt transmission										
	Air discharge	Top discharge										
Motor	Power supply	380V/3N ~ /50Hz										
	Type	Three-phase asynchronous motor, insulation grade F and protection grade IP55										
	Power (kW)	I	-	0.75(1.1)	-	-	-	-	-	-	-	
		II	1.1(1.1)	1.1(1.1)	1.5(2.2)	1.5(1.5)	2.2(3.0)	2.2(2.2)	-	4.0(4.0)	4.0(5.5)	5.5(5.5)
		III	1.1(1.5)	1.1(1.5)	1.5(2.2)	1.5(2.2)	3.0(3.0)	2.2(3.0)	4.0(4.0)	4.0(4.0)	5.5(5.5)	5.5(7.5)
IV		1.5(1.5)	1.5(1.5)	2.2(2.2)	2.2(2.2)	3.0(3.0)	3.0(3.0)	4.0(5.5)	5.5(5.5)	5.5(7.5)	7.5(7.5)	
Filter	Type	Nylon filter with primary efficiency										
	Thickness (mm)	8										
Cabinet	Type	Galvanized steel plate of electrostatic coating, with efficient soundproof and heat insulating material XPE attached inside										
	Unit cabinet dimensions	Length (mm)	935	1135	1135	1350	1350	1774	1774	2124	2124	2476
		Width (mm)	585	655	655	736	736	956	956	955	955	955
		Height (mm)	1082	1320	1320	1676	1676	2036	2036	2070	2070	2191
Unit weight (kg)	4 rows of coils	135	185	188	265	269	440	450	556	571	665	
	6 rows of coils	146	199	202	285	289	473	483	598	613	716	

NOTES:

- THE ABOVE PARAMETERS ARE STANDARD MODEL PARAMETERS; IN CASE OF ANY SPECIAL REQUIREMENT, DAIKIN WILL PROVIDE A SPECIAL DESIGN;
- NOMINAL RETURN AIR COOLING CONDITION: 27°C (DRY BULB)/19.5°C (WET BULB); NOMINAL FRESH AIR COOLING CONDITION: 34°C (DRY BULB)/28°C (WET BULB); NOMINAL CHILLED WATER INLET AND OUTLET TEMPERATURES: 7°C (WATER INLET); 12°C (WATER OUTLET);
- NOMINAL RETURN AIR HEATING CONDITION: 21°C (DRY BULB); NOMINAL FRESH AIR HEATING CONDITION: 0°C (DRY BULB); NOMINAL HEATING WATER INLET AND OUTLET TEMPERATURES: 60°C (WATER INLET); 50°C (WATER OUTLET);
- THE WEIGHT LISTED IN THE ABOVE TABLE IS THE NET WEIGHT OF UNIT. THE OPERATING WEIGHT WILL INCREASE BY ABOUT 20%;
- VALUE INSIDE () IN THE ABOVE TABLE IS THE MOTOR POWER OF UNIT WITH 6 ROWS OF COILS.
- FOR THE MAXIMUM EXTERNAL TOTAL PRESSURE CORRESPONDING TO MOTOR POWER, SEE P22;
- THE COIL CIRCUIT FOR UNITS WITH FULL RETURN AIR ("R") AND UNITS WITH FULL FRESH AIR ("F") MAY BE DIFFERENT. PLEASE SPECIFY THE INLET AIR WORKING CONDITIONS WHILE PLACING ORDERS. DAIKIN CAN PROVIDE COMPUTER-AIDED MODEL SELECTION TO MEET SPECIAL REQUIREMENTS. FOR DETAILED PARAMETERS, PLEASE SEE THE MODEL SELECTION RESULTS.

Dimensions of FUW vertical cabinet air handling unit

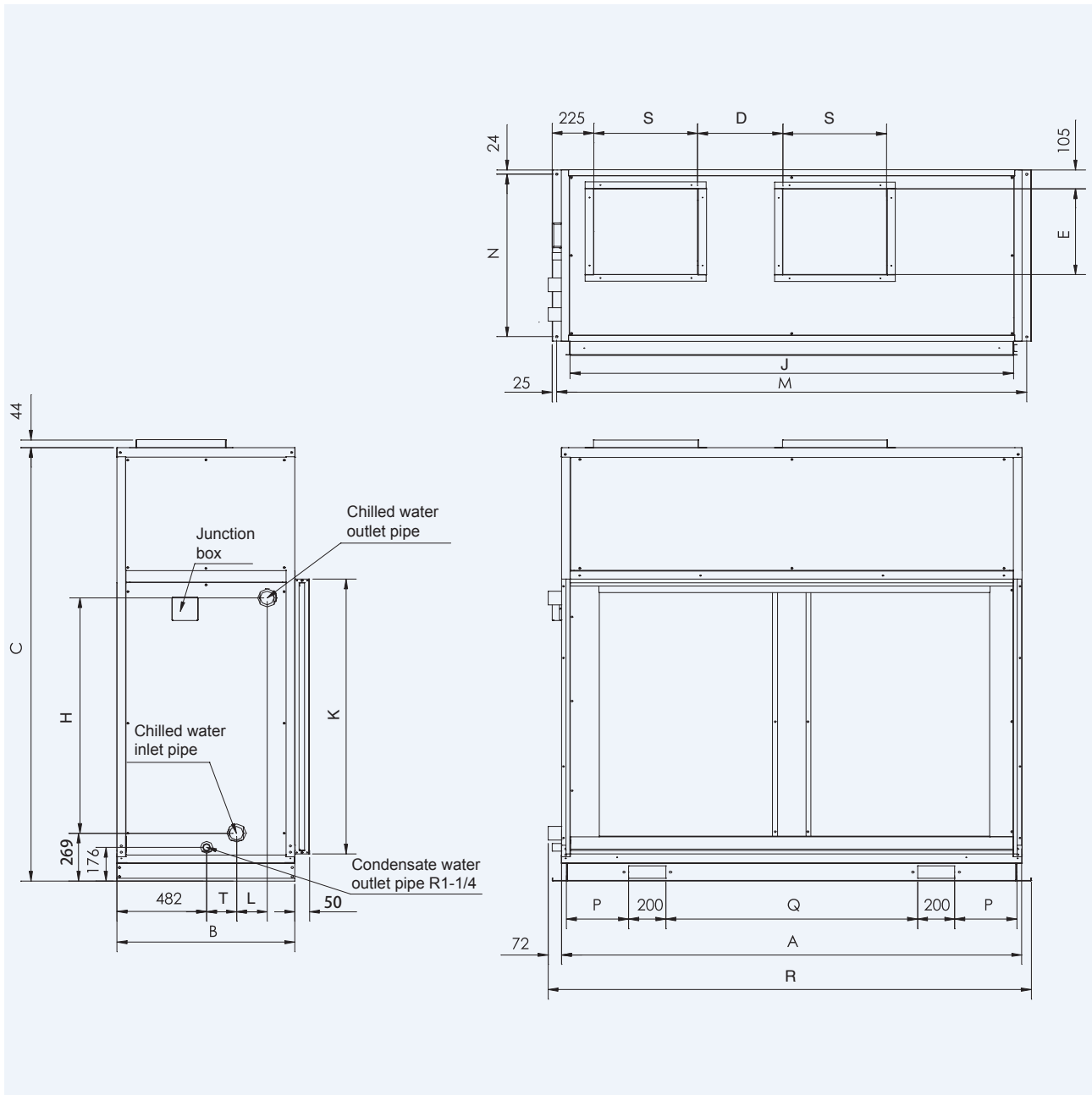


Unit: mm

Model	Cabinet dimensions			Supply air outlet dimensions			Return air inlet dimensions		Pipe orientation dimensions						Clearance length of unit	Base hole positioning dimensions	
	A (length)	B (width)	C (height)	D	E	F	J	K	H	G	L (4 rows)	L (6 rows)	T (4 rows)	T (6 rows)		R	M
FUW040V	935	585	1082	335	293	200	840	592	446	182	66	110	236	192	1055	968	520
FUW050V	1135	655	1320	395	341	254	1040	692	546	152	66	110	326	282	1255	1168	590
FUW060V	1135	655	1320	395	341	254	1040	692	546	152	66	110	326	282	1255	1168	590

NOTE: THE CABINET DIMENSIONS EXCLUDE THE PROTRUDING PARTS (SUCH AS THE WATER PIPE HEADER, DAMPER/FLANGE, FILTER AND HANGING ROD). FOR DETAILS, SEE THE ABOVE FIGURE.

Dimensions of FUW vertical cabinet air handling unit



Unit: mm

Model	Cabinet dimensions			Supply air outlet dimensions			Return air inlet dimensions		Pipe orientation dimensions				Forklift hole position	Clearance length of unit	Base hole positioning dimensions			
	A (length)	B (width)	C (height)	S	D	E	J	K	H	L (4 rows)	L (6 rows)	T (4 rows)			T (6 rows)	Q	R	M
FUW180V	2124	955	2070	476	382	406	2032	1253	1077	83	137	224	180	1003	2247	2175	907	334
FUW200V	2124	955	2070	476	382	406	2032	1253	1077	83	137	224	180	1003	2247	2175	907	334
FUW250V	2476	955	2191	561	454	478	2379	1253	1077	83	137	224	180	701	2597	2525	907	660

NOTE: 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.



➤ Motor power - Quick reference for maximum external total pressure

FUW horizontal cabinet air handling unit

Model	FUW020F	FUW030F	FUW040F	FUW050F	FUW060F	FUW070F	FUW080F	FUW100F	FUW120F	FUW150F	
Nominal air flow (m ³ /h)	2000	3000	4000	5000	6000	7000	8000	10000	12000	15000	
Rows	Motor power (kW)	External total pressure (Pa)									
4 rows of cooling coil	0.55	400	250	100							
	0.75	600	350	225							
	1.1		550	350	200	150	100				
	1.5			550	400	300	250	200			
	2.2				700	500	450	400	150	125	
	3					550	700	550	350	300	
	4						850		600	500	275
	5.5								800	765	550
6 rows of cooling coil	0.55	400	200								
	0.75	550	300	175							
	1.1		500	300	150	100					
	1.5			500	350	275	225	150			
	2.2				650	450	450	300		75	
	3					500	650	500	300	250	
	4						800		550	450	225
	5.5								750	715	500
									730	750	

NOTES:

- THE ABOVE TABLE PROVIDES THE MAXIMUM EXTERNAL TOTAL PRESSURE OF UNIT (INCLUDING THE STANDARD CONFIGURATION FILTER AND COOLING COIL) CORRESPONDING TO THE MOTOR POWER. TO ADD A FUNCTION SECTION, REDUCE THE RESISTANCE OF THE CORRESPONDING PART. FOR THE DETAILED RESISTANCE VALUES, SEE THE PARAMETER TABLE ON P8. FOR EXAMPLE, THE MOTOR POWER SELECTED FOR FUW040 IS 1.1KW, THERE ARE 4 ROWS OF COOLING COILS, AND THE CORRESPONDING MAXIMUM EXTERNAL TOTAL PRESSURE IS 350PA. IF FILTER F5 IS ADDED FOR THE UNIT, THE RESISTANCE OF F5 IS 128PA ACCORDING TO THE TABLE ON P8, AND THE CORRESPONDING MAXIMUM EXTERNAL TOTAL PRESSURE IS 350-128=222PA.

FUW vertical cabinet air handling unit

Model	FUW040V	FUW050V	FUW060V	FUW080V	FUW100V	FUW120V	FUW150V	FUW180V	FUW200V	FUW250V	
Nominal air flow (m ³ /h)	4000	5000	6000	8000	10000	12000	15000	18000	20000	25000	
Rows of coils	Motor power (kW)	External total pressure (Pa)									
4 rows of cooling coils	0.75		90								
	1.1	270	240	90							
	1.5	470	390	230	230						
	2.2			460	420	200	230				
	3					430	420	160			
	4							360	270	160	
	5.5								450	350	240
	7.5										430
6 rows of cooling coils	0.75										
	1.1	190	170								
	1.5	370	330	150	180						
	2.5			370	370	130	180				
	3					350	370				
	4							270	230		
	5.5								550	400	270
	7.5									500	360

➤ Precautions

FUW horizontal cabinet air handling unit

- Indicate the unit model, quantity, unit working conditions and structure type in the order.
 A—Basic model of horizontal return air B—Basic model of horizontal fresh air C—Multi-function model of horizontal air return
 D—Multi-function model of horizontal fresh air
- This model can be supplied according to the basic model or designed according to the customer's multi-function requirements. Please indicate this in the order.
- Indicate the orientation of the inlet/outlet water pipes for the unit in the order. Chilled water pipe orientation: R-Right connected pipe
 L-Left connected pipe.
- During unit installation, a proper water seal is needed to ensure smooth discharge of condensate water. Figure 1 shows the water seal installation.

FUW vertical cabinet air handling unit

- Indicate the unit model, quantity and unit working conditions in the order. For any special requirement of the unit, describe it in detail.
 Working conditions of use: R-Standard return air working conditions F-Standard fresh air working conditions
- Indicate the orientation of the inlet/outlet water pipes for the unit in the order. Chilled water pipe orientation: R-Right connected pipe
 L-Left connected pipe.
- This model can be supplied according to the standard model or designed according to the customer's non-standard requirements. Please indicate this in the order.
- During unit installation, a proper water seal is needed to ensure smooth discharge of condensate water. Figure 1 shows the water seal installation.

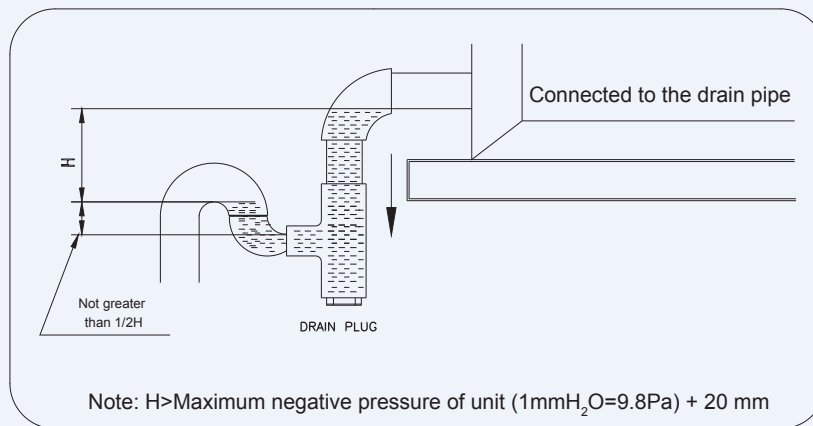


Figure 1 Water seal installation

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.



The air conditioners manufactured by Daikin Industries have received **ISO 9001 series** certification for quality assurance.

Certificate Number. FM 661837



The airconditioning factories of Daikin Industries have received environmental management system standard **ISO 14001** certification.

Certificate Number. EMS80362

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.

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