



## Product Catalog

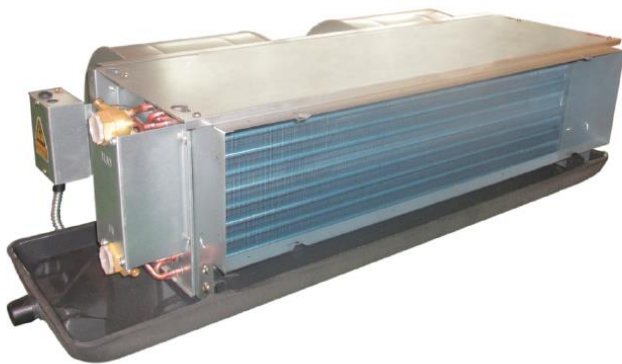
# HFCF/ HFXF/ FWC/ FWH

## Fan Coil Unit

HFCF/HFXF002-015 Fan Coil Unit

FWC003-015 Cassette Fan Coil Unit

FWH002-006 Hi Wall Fan Coil Unit



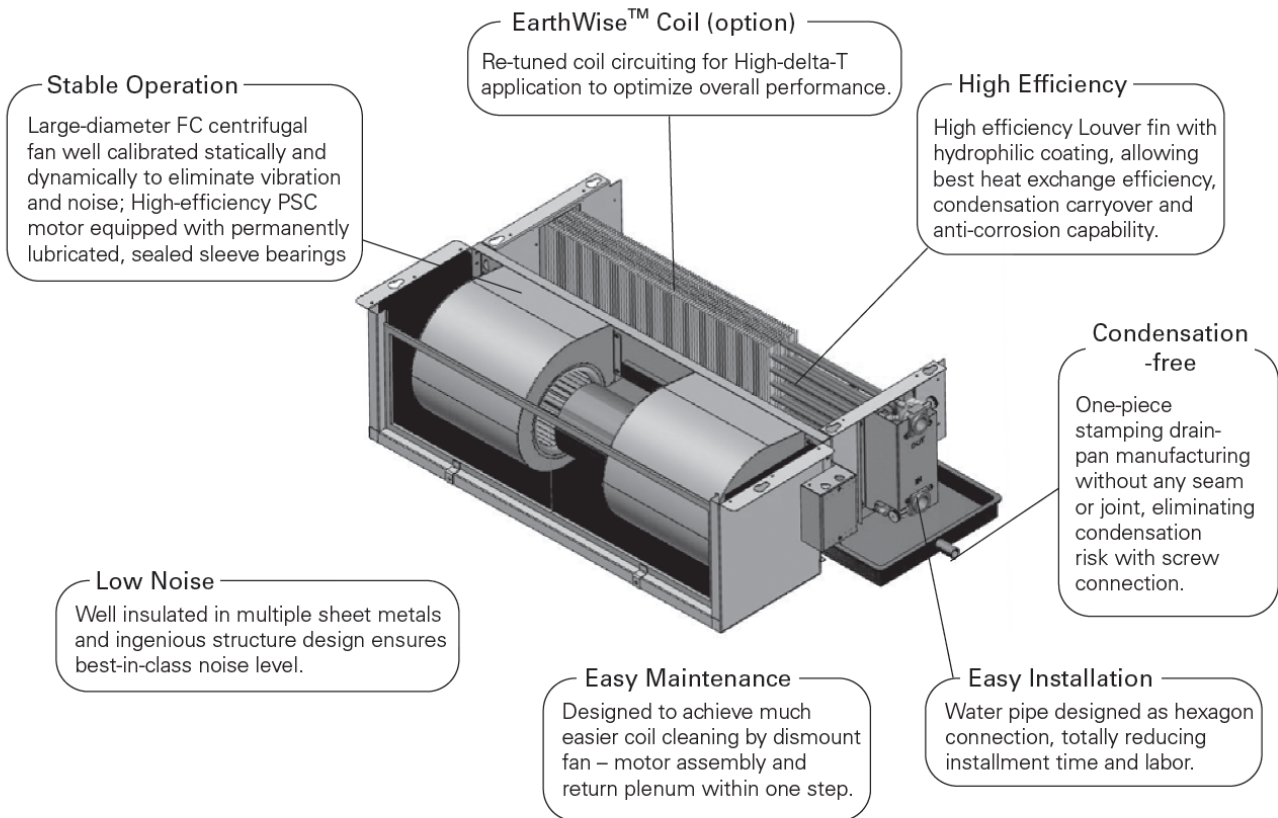
# Features and Benefits

## Overview

HFCF is another leap over the leading HFCF, working everywhere around the world. HFCF meets the standards of today's market, as well as the anticipated needs of tomorrow's market. The tradition that company founder Reuben Trane began in the 1930s continues with the latest generation of fan-coils from The Trane Company.

The best design we are offering by HFCF:

- Louver fin to drive higher heat transfer efficiency
- Larger diameter fan to further improve noise level
- Various ESP (External Static Pressure) motor options to provide more precise match
- Dedicated EarthWise™ (large delta T application) coil option
- Full AQP in design and production process to ensure quality delivery
- Many newly patented designs to deliver unique comfort



Note: HFCF11, 13, 15 are not AHRI certified.



**Smart Control**  
Every unit can be equipped with TM series smart network thermostat, which precise temperature control (within  $\pm 0.5^\circ\text{C}$ ) at stable condition. Thermostat casing is Trane patented design with aesthetic appearance, and has multiple color choices to perfectly fit in the indoor decoration.





# Model Number Descriptions

## HFCF Horizontal Concealed FCU

**H F C F 0 2 L 3 0 1 1 0 0 0 A 0 2 A**  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

<b>Digits 1-4</b>	Unit Type H Horizontal F Fan Coil Unit C Concealed F Platform Version	<b>Digit 12</b>	Valve 0 None A 2-way Valve (2-pipe) B 3-way Valve (2-pipe) C Two 2-way Valves (4-pipe)
<b>Digits 5-6</b>	Size--Nominal CFM 02 200 CFM 03 300 CFM 04 400 CFM 05 500 CFM 06 600 CFM 07 700 CFM 08 800 CFM 10 1000 CFM 11 1100 CFM 12 1200 CFM 13 1300 CFM 14 1400 CFM 15 1500 CFM	<b>Digit 13</b>	Control 0 No Control A LCD Thermostat (TM50) 5 LCD network Thermostat, (Black, TM-A10B) 6 LCD network Thermostat, (White, TM-A10W)
<b>Digit 7</b>	Connection Side L Left Hand Connection R Right Hand Connection	<b>Digit 14</b>	Plenum Filter 0 None A Rear Return Air Plenum B Rear Return Air Plenum w/ 6mm Nylon Filter C Rear Return Air Plenum w/ 20mm AI Filter D Bottom Return Air Plenum E Bottom Return Air Plenum w/ 6mm Nylon Filter F Bottom Return Air Plenum w/ 20mm AI Filter G Rear Return Air Plenum w/ Plug in PCO H Rear Return Air Plenum w/ Plug in PCO w/20mm AI Filter J Bottom Return Air Plenum w/ Plug in PCO K Bottom Return Air Plenum w/ Plug in PCO w/20mm AI Filter L Rear Return Air Plenum w/PM2.5 Filter M Rear Return Air Plenum w/Carbon Filter N Bottom Return Air Plenum w/PM2.5 Filter P Bottom Return Air Plenum w/Carbon Filter
<b>Digit 8</b>	Coil Rows 2 2 rows 3 3 rows 4 4 rows A 2+1 rows(Without HFCF07) B 3+1 rows C 3 rows (EarthWise) D 4 rows (EarthWise) E 3+1 rows (EarthWise) H 3 rows hi-capacity (EarthWise) 6 2 rows, [2.5MPa] 7 3 rows, [2.5MPa] 8 4 rows, [2.5MPa] P 2+1 rows, [2.5MPa] (Without HFCF07) Q 3+1 rows, [2.5MPa] R 3 rows (EarthWise), [2.5MPa] S 4 rows (EarthWise), [2.5MPa] T 3+1 rows (EarthWise), [2.5MPa] W 3 rows hi-capacity (EarthWise), [2.5MPa]	<b>Digit 15</b>	Drain Pan A Cold-roll Steel, PE Insulation B Cold-roll Steel, PE Insulation (+200mm) C Cold-roll Steel, PE Insulation (+310mm) D Stainless Steel, PE Insulation E Stainless Steel, PE Insulation (+200mm) F Stainless Steel, PE Insulation (+310mm) G Cold-roll Steel, Non-flammable Insulation H Cold-roll Steel, Non-flammable Insulation (+200mm) J Cold-roll Steel w/ Non-flammable Insulation (+310mm) K Stainless Steel w/ Non-flammable Insulation L Stainless Steel w/ Non-flammable Insulation (+200mm) M Stainless Steel w/ Non-flammable Insulation (+310mm) N Cold-roll Steel, PE Insulation + aux drain pan P Cold-roll Steel, PE Insulation (+200mm) + aux drain pan Q Cold-roll Steel, PE Insulation (+310mm) + aux drain pan R Stainless Steel, PE Insulation + aux drain pan S Stainless Steel, PE Insulation (+200mm) + aux drain pan T Stainless Steel, PE Insulation (+310mm) + aux drain pan U Cold-roll Steel, Non-flammable Insulation + aux drain pan V Cold-roll Steel, Non-flammable Insulation (+200mm) + aux drain pan W Cold-roll Steel w/ Non-flammable Insulation (+310mm) + aux drain pan X Stainless Steel w/ Non-flammable Insulation + aux drain pan Y Stainless Steel w/ Non-flammable Insulation (+200mm) + aux drain pan Z Stainless Steel w/ Non-flammable Insulation (+310mm) + aux drain pan
<b>Digit 9</b>	Electric Heater 0 No Electric Heater 1 With Electric Heater (w/ Relay in Terminal Box) 2 With Electric Heater (w/o Relay in Terminal Box) A Anion (Bacteriostatic fin coil)	<b>Digit 16</b>	IAQ Option 0 No IAQ Option
<b>Digit 10</b>	Motor Type 1 PSC Motor-ESP 12Pa 3 PSC Motor-ESP 30Pa 5 PSC Motor-ESP 50Pa A PSC Motor-ESP 100Pa	<b>Digit 17</b>	Design Version 2 Design Version
<b>Digit 11</b>	Voltage/Hertz/Phase 1 220~240VAC/50Hz/1Phase 2 220~240VAC/60Hz/1Phase (Without HFCF07) 3 110~127VAC/60Hz/1Phase (Without HFCF07)	<b>Digit 18</b>	Region A APR B MAIR C LAR H HongKong V China

## Model Number Descriptions

### HFXF Horizontal Exposed FCU

H F X F 0 2 L 3 0 1 1 0 0 0 A 0 2 A  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

<b>Digit 1</b>	H	Horizontal	<b>Digit 11:</b>	Voltage/Hertz/Phase
<b>Digit 2</b>	F	Fan Coil Unit		1 220~240/50/1
<b>Digit 3</b>	X	Exposed		2 220~240/60/1(Without HFXF07)
<b>Digit 4</b>	F	Design Sequence		3 00~127/60/1(Without HFXF07)
<b>Digit 5, 6</b>		Size--Nominal Airflow	<b>Digit 12:</b>	Valve PACKAGE
	02	200 CFM		0 None
	03	300 CFM	<b>Digit 13:</b>	CONTROL
	04	400 CFM		0 No Control
	05	500 CFM		A LCD Thermostat (TM50)
	06	600 CFM		5 LCD network Thermostat, (Black, TM-A10B)
	07	700 CFM		6 LCD network Thermostat, (White, TM-A10W)
	08	800 CFM	<b>Digit 14:</b>	Plenum Filter
	10	1000 CFM		A Rear Return Air Plenum
	12	1200 CFM		B Rear Return Air Plenum w/6mm Nylon Filter
	14	1400 CFM		C Rear Return Air Plenum w/20mm Al
<b>Digit 7:</b>		Connection Side		G Rear Return Air Plenum w/ Plug in PCO
	L	Left Hand Connection		H Rear Return Air Plenum w/ Plug in PCO
	R	Right Hand Connection		w/20mm Al Filter
<b>Digit 8:</b>		Coil Rows	<b>Digit 15:</b>	Drain Pan
	3	3 Rows Cooling		A Cold-roll Steel w/ PE Insulation
	C	3 rows (EarthWise)		D Stainless Steel w/ PE Insulation
	H	3 rows hi-capacity (EarthWise)		G Cold-roll Steel, Non-flammable Insulation
	7	3 Rows Cooling, [2.5MPa]	<b>Digit 16:</b>	IAQ Option
	R	3 rows (EarthWise), [2.5MPa]		0 No IAQ Option
	W	3 rows hi-capacity (EarthWise), [2.5MPa]	<b>Digit 17:</b>	Design Version
<b>Digit 9:</b>		Electric Heater		2 Design Version
	0	No Electric Heater		S Design Version
	1	With Electric Heater	<b>Digit 18:</b>	Region
		(w/ Relay in Terminal Box)		A APR
<b>Digit 10:</b>		Motor Type		B MAIR
	1	PSC Motor-ESP 12Pa (ESP 0Pa)		C LAR
				H Hong Kong

# Performance Data

## 3 Row Unit (2-Pipe, 12/30/50Pa Motor)

			02	03	04	05	06	07	08	10	12	14
Air Flow	High Speed	CMH	340	510	680	850	1020	1190	1360	1700	2040	2380
	Middle Speed	CMH	280	410	550	690	830	970	1100	1360	1630	1900
	Low Speed	CMH	180	270	350	440	520	610	690	860	1020	1190
Normal Application <sup>(2)</sup>	Cooling Capacity	kW	2.21	3.16	4.17	5.06	6.10	7.00	8.00	9.30	11.10	13.00
	Heating Capacity	kW	3.50	5.20	6.70	8.12	9.70	11.35	13.00	15.50	18.00	20.80
	Heating Capacity (by E-heater) <sup>(5)</sup>	kW	0.50	1.00	1.40	1.60	1.80	2.3	2.80	3.20	3.60	4.60
	Water Flow	l/s	0.11	0.15	0.20	0.25	0.30	0.34	0.39	0.45	0.53	0.63
	Water Pressure Drop	kPa	25	24	25	30	40	33	35	35	40	50
EarthWise Application <sup>(3)</sup>	Cooling Capacity	kW	2.21	3.14	3.99	5.02	6.10	7.2	7.98	9.85	11.31	13.29
	Heating Capacity	kW	3.37	4.84	6.32	7.56	9.16	11	12.27	14.92	17.15	19.95
	Water Flow	l/s	0.07	0.10	0.12	0.16	0.20	0.21	0.24	0.29	0.34	0.40
	Water Pressure Drop	kPa	29	22	17	29	40	34	33	36	35	50
High Capacity EarthWise Application	Cooling Capacity	kW	-	2.06	2.70	3.39	4.20	4.6	5.41	6.53	7.49	8.87
	Heating Capacity	kW	-	3.61	4.73	5.93	7.35	10.8	9.47	11.43	13.11	15.52
	Water Flow	l/s	-	0.06	0.08	0.11	0.12	0.13	0.16	0.19	0.22	0.27
	Water Pressure Drop	kPa	-	28	20	30	22	30	40	35	35	48
Power Consumption	12Pa	220~240V/50Hz	26	39	45	68	96	109	115	152	189	228
		220~240V/60Hz	27	43	51	67	85	NA	109	142	178	213
		100~127V/60Hz	28	40	52	68	79	NA	106	145	179	201
	30Pa	220~240V/50Hz	41	55	71	87	108	119	142	174	212	253
		220~240V/60Hz	36	49	62	87	88	NA	119	163	193	311
		100~127V/60Hz	33	47	59	81	86	NA	119	166	191	336
	50Pa	220~240V/50Hz	48	64	84	99	118	129	158	210	230	290
		220~240V/60Hz	40	58	77	112	134	NA	149	242	273	333
		100~127V/60Hz	40	62	75	110	147	NA	149	239	277	374
		12Pa	34.5	35.5	36.5	40.5	45.0	44.0	44	46.5	49.0	51.0
Noise	30Pa	dBA	38.0	40.0	41.5	43.5	46.0	46.0	46.5	49.0	51.0	53.0
	50Pa	dBA	41.0	42.5	45.0	47.0	48.0	47.0	49.0	51.0	52.0	54.0
	Number of Motors		1	1	1	1	1	2	2	2	2	2
Working Pressure	1.8MPa											
Coil Type	Copper Tube / Hydrophilic Aluminum Fin											
Fan Type	Forward-Curve Centrifugal Fan											
Motor Type	Single-phase Permanent Split Capacitor											
Water Inlet/Outlet Diameter	Rc 3/4" (Female)											
Drain-pan Type	One-piece Stamping & Electrostatic Coating											
Drain-pan Connection Diameter	R 3/4" (Male)											
Options	Return Air Plenum, Filter, Thermostat, E-heater, Special Drain-pan											

1. Cooling and heating capacity, water flow and pressure drop data are based on high speed running of bare unit (i.e. without return air plenum).

2. Normal Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 7/12;

- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

3. EarthWise Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 5/13;

- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

4. High Capacity EarthWise operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 26.7 °C/19.4 °C; water inlet/outlet temperature (°C): 7.2 °C/15.6 °C;

- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

5. Same performance for EarthWise application.

6. High capacity earthwise application data is based on medium speed. Other data is based on high speed.

## Performance Data

### 3 Row Unit (2-Pipe, 100Pa Motor)

			11	13	15
Air Flow	High Speed	CMH	1870	2210	2550
	Middle Speed	CMH	1700	1870	2040
	Low Speed	CMH	935	1105	1275
Normal Application	Cooling Capacity	kW	9.78	11.72	13.48
	Heating Capacity	kW	16.41	19.02	21.67
	Heating Capacity (by E-heater) <sup>5)</sup>	kW	3.20	3.60	4.60
	Water Flow	l/s	0.47	0.56	0.64
	Water Pressure Drop	kPa	38	44	53
EarthWise Application	Cooling Capacity	kW	10.42	11.96	13.80
	Heating Capacity	kW	15.81	18.12	20.73
	Water Flow	l/s	0.31	0.36	0.41
	Water Pressure Drop	kPa	40	38	53
High Capacity EarthWise Application	Cooling Capacity	kW	7.03	7.58	9.06
	Heating Capacity	kW	12.30	13.26	15.86
	Water Flow	l/s	0.20	0.22	0.27
	Water Pressure Drop	kPa	38	36	49
Power Consumption (220~240V/50Hz)	High Speed	W	296	303	376
	Medium Speed	W	254	286	312
	Low Speed	W	141	215	227
Power Consumption (220~240V/60Hz)	High Speed	W	319	359	400
	Medium Speed	W	296	318	354
	Low Speed	W	165	243	265
Noise	High Speed	dBA	56.0	57.0	58.0
	Medium Speed	dBA	55.0	55.5	55.5
	Low Speed	dBA	51.5	51.5	51.5
Number of Motors			2	2	2
Working Pressure			1.8MPa		
Coil Type			Copper Tube / Hydrophilic Aluminum Fin		
Fan Type			Forward-Curve Centrifugal Fan		
Motor Type			Single-phase Permanent Split Capacitor		
Water Inlet/Outlet Diameter			Rc 3/4" (Female)		
Drain-pan Type			One-piece Stamping & Electrostatic Coating		
Drain-pan Connection Diameter			R 3/4"(Male)		
Options			Return Air Plenum, Filter, Thermostat, E-heater, Special Drain-pan		

1. Cooling and heating capacity, water flow and pressure drop data are based on high speed running of bare unit (i.e. without return air plenum).

2. Normal Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 7/12;
- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

3. EarthWise Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 5/13;
- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

4. High Capacity EarthWise operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 26.7 °C/19.4 °C; water inlet/outlet temperature (°C): 7.2 °C/15.6 °C;
- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

5. Same performance for EarthWise application.

6. High capacity earthwise application data is based on medium speed. Other data is based on high speed.

### 4 Row Unit (2-Pipe, 12/30/50Pa Motor)

			02	03	04	05	06	07	08	10	12	14
Air Flow	High Speed		340	510	680	850	1020	1190	1360	1700	2040	2380
	Middle Speed		280	410	550	690	830	970	1100	1360	1630	1900
	Low Speed		180	270	350	440	520	610	690	860	1020	1190
Normal Application	Cooling Capacity	kW	2.54	3.66	4.73	5.55	7.01	7.9	9.21	11.16	13.07	14.93
	Heating Capacity	kW	4.00	5.69	7.20	8.82	10.73	12.1	14.17	17.61	20.16	23.43
	Heating Capacity (by E-heater) <sup>(5)</sup>	kW	0.50	1.00	1.40	1.60	1.80	2.3	2.80	3.20	3.60	4.60
	Water Flow	l/s	0.12	0.18	0.23	0.27	0.33	0.38	0.44	0.53	0.62	0.71
	Water Pressure Drop	kPa	16	20	30	30	34	33	35	40	40	50
EarthWise Application	Cooling Capacity	kW	2.47	3.56	4.58	5.60	7.24	7.8	8.79	10.76	13.05	15.17
	Heating Capacity	kW	3.76	5.40	6.72	8.43	10.37	11.7	13.35	16.64	18.87	21.79
	Water Flow	l/s	0.08	0.12	0.14	0.17	0.22	0.23	0.29	0.34	0.40	0.42
	Water Pressure Drop	kPa	16	30	28	24	40	30	40	40	40	50
Power Consumption	12Pa	220~240V/50Hz	26	39	45	68	96	109	115	152	189	228
		220~240V/60Hz	27	43	51	67	85	NA	109	142	178	213
		100~127V/60Hz	28	40	52	68	79	NA	106	145	179	201
	30Pa	220~240V/50Hz	41	55	71	87	108	119	142	174	212	253
		220~240V/60Hz	36	49	62	87	88	NA	119	163	193	311
		100~127V/60Hz	33	47	59	81	86	NA	119	166	191	336
	50Pa	220~240V/50Hz	48	64	84	99	118	129	158	210	230	290
		220~240V/60Hz	40	58	77	112	134	NA	149	242	273	333
		100~127V/60Hz	40	62	75	110	147	NA	149	239	277	374
Noise	12Pa	dBA	34.5	35.5	36.5	40.5	45.0	44.0	44	46.5	49.0	51.0
	30Pa	dBA	38.0	40.0	41.5	43.5	46.0	46.0	46.5	49.0	51.0	53.0
	50Pa	dBA	41.0	42.5	45.0	47.0	48.0	47.0	49.0	51.0	52.0	54.0
Number of Motors			1	1	1	1	1	2	2	2	2	2
Working Pressure			1.8MPa									
Coil Type			Copper Tube / Hydrophilic Aluminum Fin									
Fan Type			Forward-Curve Centrifugal Fan									
Motor Type			Single-phase Permanent Split Capacitor									
Water Inlet/Outlet Diameter			Rc 3/4" (Female)									
Drain-pan Type			One-piece Stamping & Electrostatic Coating									
Drain-pan Connection Diameter			R 3/4"(Male)									
Options			Return Air Plenum, Filter, Thermostat, E-heater, Special Drain-pan									

1.Cooling and heating capacity, water flow and pressure drop data are based on high speed running of bare unit (i.e. without return air plenum).

2.Normal Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 7/12;

- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

3.EarthWise Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 5/13;

- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

4.Please refer to model number description for more options.

5. Same performance for EarthWise application.



## Performance Data

### 4 Row Unit (2-Pipe, 100Pa Motor)

			11	13	15
Air Flow	High Speed	CMH	1870	2210	2550
	Middle Speed	CMH	1700	1870	2040
	Low Speed	CMH	935	1105	1275
Normal Application	Cooling Capacity	kW	11.83	13.81	15.58
	Heating Capacity	kW	18.72	21.43	24.51
	Heating Capacity (by E-heater) <sup>(5)</sup>	kW	3.20	3.60	4.60
	Water Flow	l/s	0.56	0.66	0.74
	Water Pressure Drop	kPa	45	45	55
EarthWise Application	Cooling Capacity	kW	11.49	13.80	15.80
	Heating Capacity	kW	17.63	20.06	22.78
	Water Flow	l/s	0.34	0.39	0.44
Power Consumption (220~240V/50Hz)	High Speed	W	296	303	376
	Medium Speed	W	254	286	312
	Low Speed	W	141	215	227
Power Consumption (220~240V/60Hz)	High Speed	W	319	359	400
	Medium Speed	W	296	318	354
	Low Speed	W	165	243	265
Noise	High Speed	dBA	56.0	57.0	58.0
	Medium Speed	dBA	55.0	55.5	55.5
	Low Speed	dBA	51.5	51.5	51.5
Number of Motors			2	2	2
Working Pressure			1.8MPa		
Coil Type			Copper Tube / Hydrophilic Aluminum Fin		
Fan Type			Forward-Curve Centrifugal Fan		
Motor Type			Single-phase Permanent Split Capacitor		
Water Inlet/Outlet Diameter			Rc 3/4" (Female)		
Drain-pan Type			One-piece Stamping & Electrostatic Coating		
Drain-pan Connection Diameter			R 3/4"(Male)		
Options			Return Air Plenum, Filter, Thermostat, E-heater, Special Drain-pan		

1.Cooling and heating capacity, water flow and pressure drop data are based on high speed running of bare unit (i.e. without return air plenum).

2.Normal Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 7/12;
- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

3.EarthWise Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 5/13;
- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

4.Please refer to model number description for more options.

5. Same performance for EarthWise application.

**2 Row Unit (2-Pipe, 12/30/50Pa Motor)**

		02	03	04	05	06	07	08	
Air Flow CMH	High Speed	350	520	690	870	1040	1210	1380	
	Middle Speed	280	410	550	700	830	970	1100	
	Low Speed	180	270	350	450	520	610	690	
	Cooling Capacity	kW	1.90	2.80	3.60	4.50	5.40	6.30	7.20
	Heating Capacity	kW	3.15	4.93	6.10	7.41	8.90	11.00	12.00
	Heating Capacity (by E-heater) <sup>(5)</sup>	kW	0.50	1.00	1.40	1.60	1.80	2.3	2.80
	Water Flow	l/s	0.10	0.14	0.17	0.21	0.26	0.31	0.34
	Water Pressure Drop	kPa	15	30	25	30	34	40	36
Power Consumption	12Pa	220~240V/50Hz	26	39	45	68	96	109	115
		220~240V/60Hz	27	43	51	67	85	NA	109
		100~127V/60Hz	28	40	52	68	79	NA	106
	30Pa	220~240V/50Hz	41	55	71	87	108	119	142
		220~240V/60Hz	36	49	62	87	88	NA	119
		100~127V/60Hz	33	47	59	81	86	NA	119
	50Pa	220~240V/50Hz	48	64	84	99	118	129	158
		220~240V/60Hz	40	58	77	112	134	NA	149
		100~127V/60Hz	40	62	75	110	147	NA	149
Noise	12Pa	dBA	34.5	35.5	36.5	40.5	45.0	44.0	44
	30Pa	dBA	38.0	40.0	41.5	43.5	46.0	46.0	46.5
	50Pa	dBA	41.0	42.5	45.0	47.0	48.0	47.0	49.0
	Number of Motors	1	1	1	1	1	2	2	
	Working Pressure	1.8MPa							
	Coil Type	Copper Tube / Hydrophilic Aluminum Fin							
	Fan Type	Forward-Curve Centrifugal Fan							
	Motor Type	Single-phase Permanent Split Capacitor							
	Water Inlet/Outlet Diameter	Rc 3/4" (Female)							
	Drain-pan Type	One-piece Stamping & Electrostatic Coating							
	Drain-pan Connection Diameter	R 3/4" (Male)							
	Options	Return Air Plenum, Filter, Thermostat, E-heater, Special Drain-pan							

1.Cooling and heating capacity, water flow and pressure drop data are based on high speed running of bare unit (i.e. without return air plenum).

2.Normal Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 7/12;

- Heating operation: inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60; same water flow as cooling operation;

3.Please refer to model number description for more options.

4. Same performance for EarthWise application.

## Performance Data

### 3+1 Row Unit (4-Pipe, 12/30/50Pa Motor)

			02	03	04	05	06	07	08	10	12	14	
Air Flow	High Speed		340	510	680	850	1020	1190	1360	1700	2040	2380	
	Middle Speed		280	410	550	690	830	970	1100	1360	1630	1900	
	Low Speed		180	270	350	440	520	610	690	860	1020	1190	
Normal Application	Cooling Capacity	kW	2.17	3.10	4.04	4.96	5.98	6.8	7.62	9.02	10.80	12.74	
	Water Flow	l/s	0.11	0.15	0.20	0.24	0.30	0.32	0.37	0.44	0.52	0.62	
	Water Pressure Drop	kPa	25	24	23	30	38	30	32	33	38	50	
EarthWise Application	Cooling Capacity	kW	2.17	2.95	3.97	4.69	5.86	6.8	7.61	9.32	10.80	13.02	
	Water Flow	l/s	0.07	0.10	0.12	0.15	0.18	0.20	0.23	0.28	0.32	0.39	
	Water Pressure Drop	kPa	26	18	30	22	38	30	26	28	29	48	
Heating Capacity		kW	2.06	2.85	3.68	4.37	4.68	5.5	6.18	7.29	8.76	10.12	
Water Flow		l/s	0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.18	0.22	0.25	
Water Pressure Drop		kPa	4	9	17	27	6	8	11	16	27	33	
Power Consumption	12Pa	220~240V/50Hz	26	39	45	68	96	109	115	152	189	228	
		220~240V/60Hz	27	43	51	67	85	NA	109	142	178	213	
		100~127V/60Hz	28	40	52	68	79	NA	106	145	179	201	
	30Pa	220~240V/50Hz	41	55	71	87	108	119	142	174	212	253	
		220~240V/60Hz	36	49	62	87	88	NA	119	163	193	311	
		100~127V/60Hz	33	47	59	81	86	NA	119	166	191	336	
	50Pa	220~240V/50Hz	48	64	84	99	118	129	158	210	230	290	
		220~240V/60Hz	40	58	77	112	134	NA	149	242	273	333	
		100~127V/60Hz	40	62	75	110	147	NA	149	239	277	374	
	Noise	12Pa	dBA	34.5	35.5	36.5	40.5	45.0	44.0	44	46.5	49.0	51.0
		30Pa	dBA	38.0	40.0	41.5	43.5	46.0	46.0	46.5	49.0	51.0	53.0
		50Pa	dBA	41.0	42.5	45.0	47.0	48.0	47.0	49.0	51.0	52.0	54.0
Number of Motors			1	1	1	1	1	2	2	2	2	2	
Working Pressure			1.8MPa										
Coil Type			Copper Tube / Hydrophilic Aluminum Fin										
Fan Type			Forward-Curve Centrifugal Fan										
Motor Type			Single-phase Permanent Split Capacitor										
Water Inlet/Outlet Diameter			Rc 3/4" (Female)										
Drain-pan Type			One-piece Stamping & Electrostatic Coating										
Drain-pan Connection Diameter			R 3/4" (Male)										
Options			Return Air Plenum, Filter, Thermostat, E-heater, Special Drain-pan										

1.Cooling and heating capacity, water flow and pressure drop data are based on high speed running of bare unit (i.e. without return air plenum).

2.Normal Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 7/12;

- Heating operation(1 row): inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60;

3.EarthWise Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 5/13;

- Heating operation(1 row): inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60;

4.Please refer to model number description for more options.

### 3+1 Row Unit (4-Pipe, 100Pa Motor)

			11	13	15
Air Flow	High Speed	CMH	1870	2210	2550
	Middle Speed	CMH	1700	1870	2040
	Low Speed	CMH	935	1105	1275
Normal Application	Cooling Capacity	kW	9.52	11.41	13.27
	Water Flow	l/s	0.45	0.54	0.63
	Water Pressure Drop	kPa	36	42	53
EarthWise Application	Cooling Capacity	kW	9.84	11.37	13.57
	Water Flow	l/s	0.29	0.34	0.40
	Water Pressure Drop	kPa	31	31	51
Heating Capacity		kW	7.44	7.84	8.96
Water Flow		l/s	0.11	0.10	0.11
Water Pressure Drop		kPa	40	40	50
Power Consumption (220~240V/50Hz)	High Speed	W	296	303	376
	Medium Speed	W	254	286	312
	Low Speed	W	141	215	227
Power Consumption (220~240V/60Hz)	High Speed	W	319	359	400
	Medium Speed	W	296	318	354
	Low Speed	W	165	243	265
Noise	High Speed	dBA	56.0	57.0	58.0
	Medium Speed	dBA	55.0	55.5	55.5
	Low Speed	dBA	51.5	51.5	51.5
Number of Motors			2	2	2
Working Pressure			1.8MPa		
Coil Type			Copper Tube / Hydrophilic Aluminum Fin		
Fan Type			Forward-Curve Centrifugal Fan		
Motor Type			Single-phase Permanent Split Capacitor		
Water Inlet/Outlet Diameter			Rc 3/4" (Female)		
Drain-pan Type			One-piece Stamping & Electrostatic Coating		
Drain-pan Connection Diameter			R 3/4"(Male)		
Options			Return Air Plenum, Filter, Thermostat, E-heater, Special Drain-pan		

1.Cooling and heating capacity, water flow and pressure drop data are based on high speed running of bare unit (i.e. without return air plenum).

2.Normal Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 7/12;
- Heating operation(1 row): inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60;

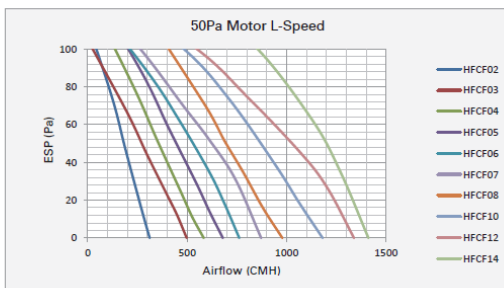
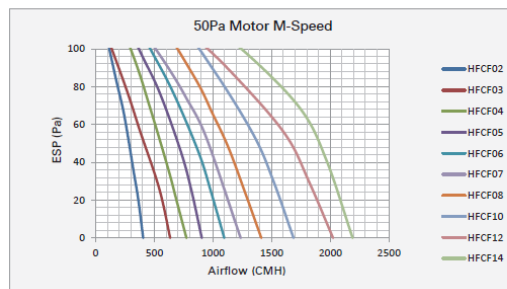
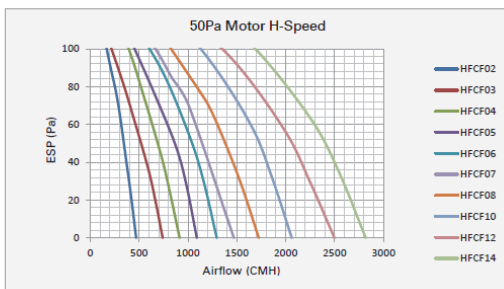
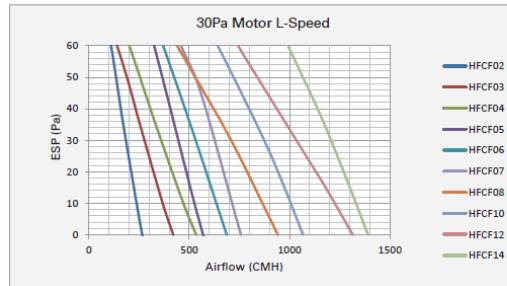
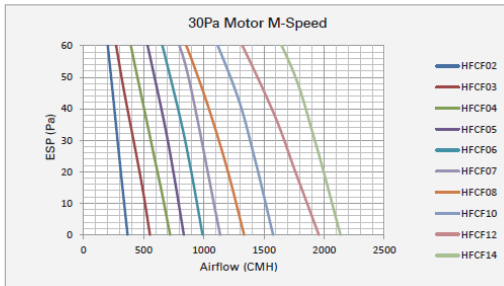
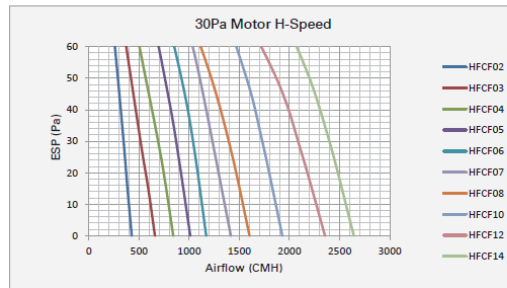
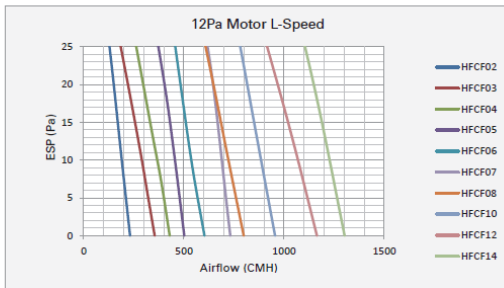
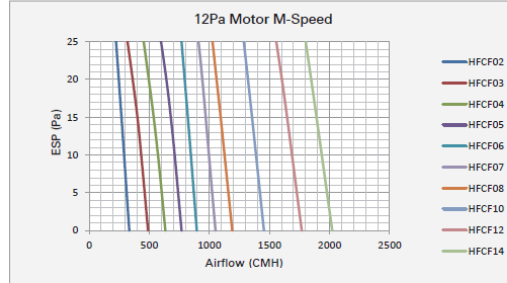
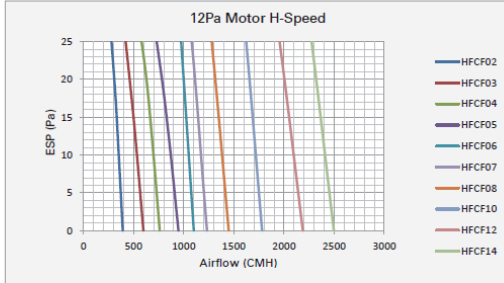
3.EarthWise Operation:

- Cooling operation: inlet air dry/wet bulb temperature (°C): 27/19.5; water inlet/outlet temperature (°C): 5/13;
- Heating operation(1 row): inlet air dry bulb temperature (°C): 21; water inlet temperature (°C): 60;

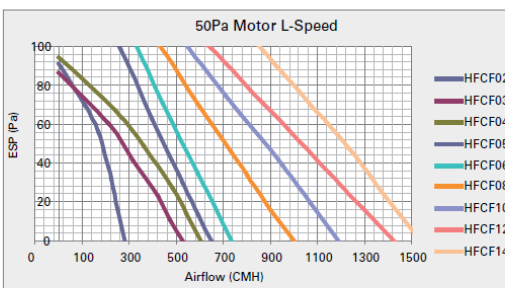
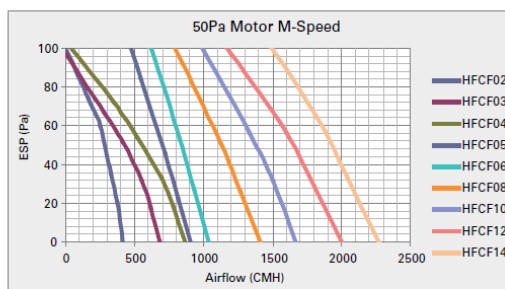
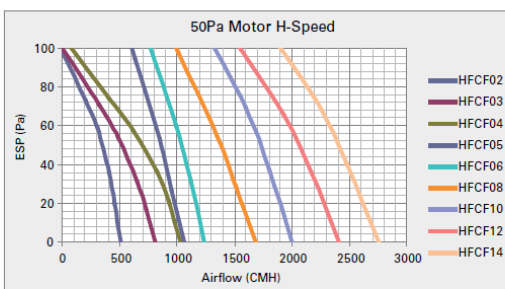
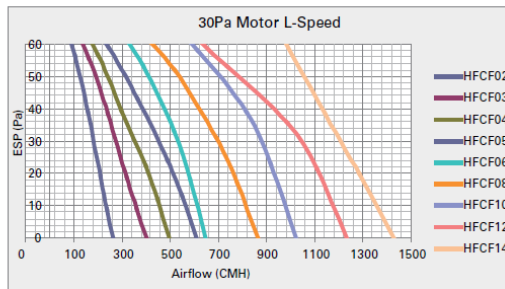
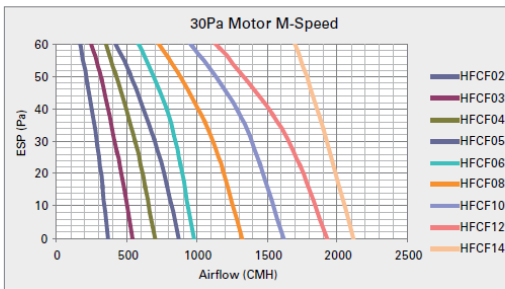
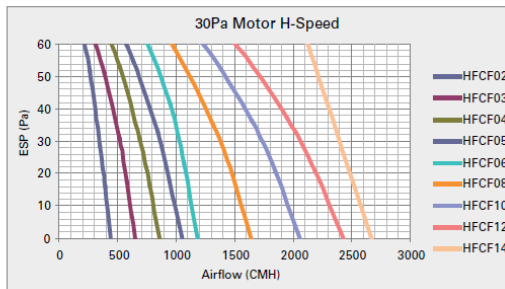
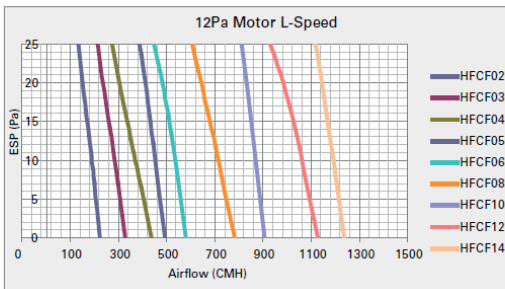
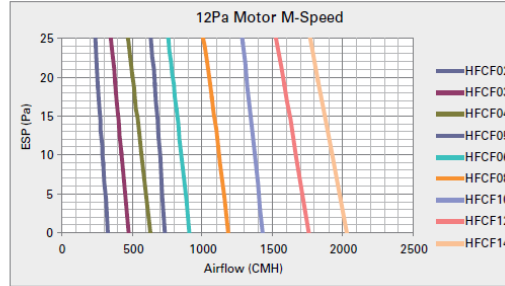
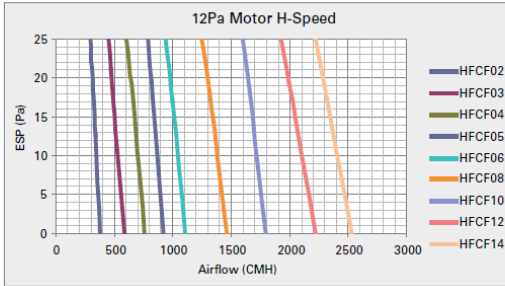
4.Please refer to model number description for more options.

# Airflow Curve(12/30/50Pa Motor)

220~240V-50Hz

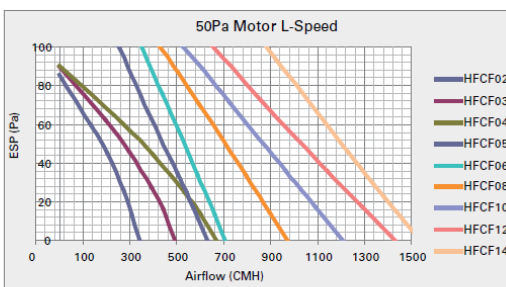
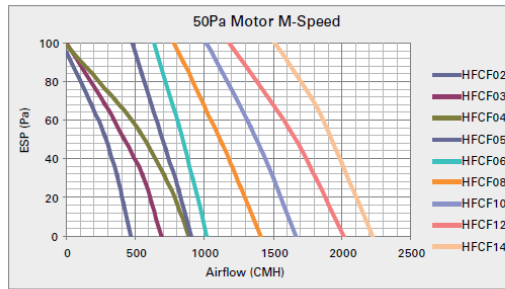
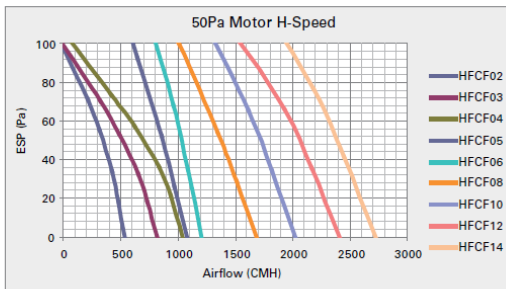
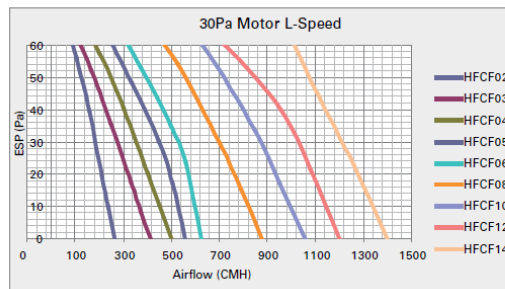
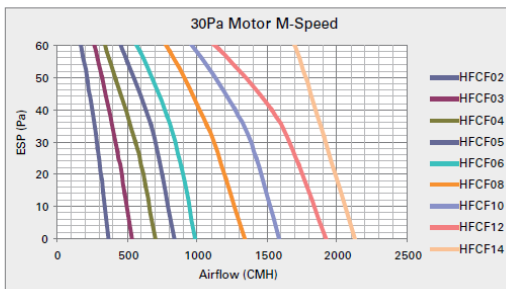
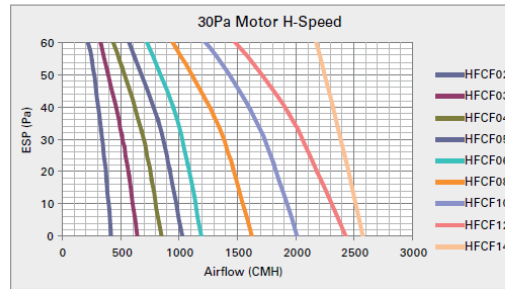
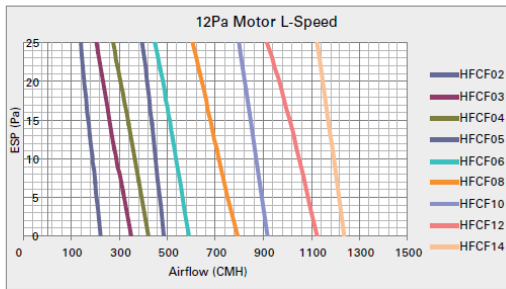
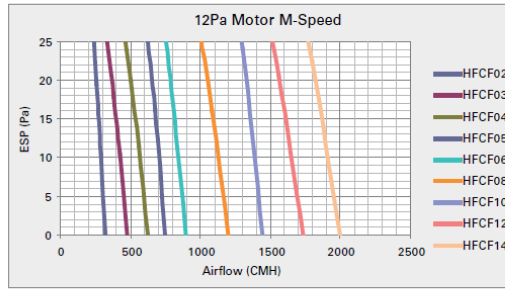
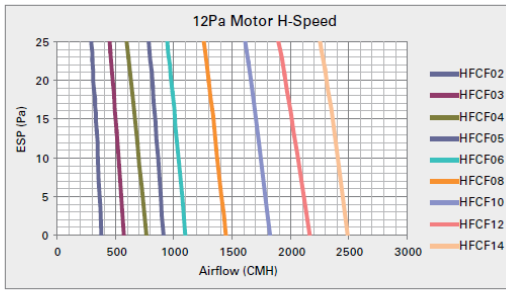


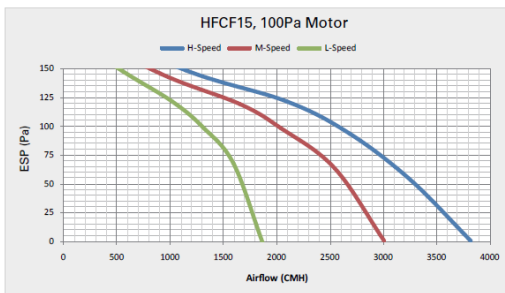
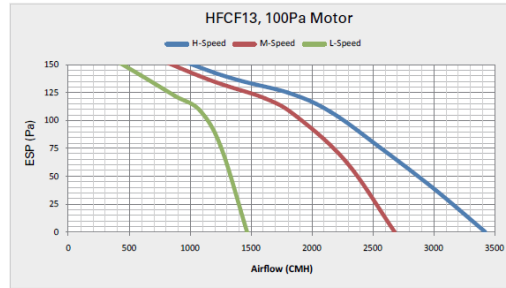
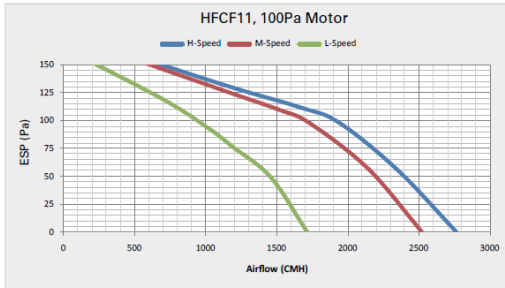
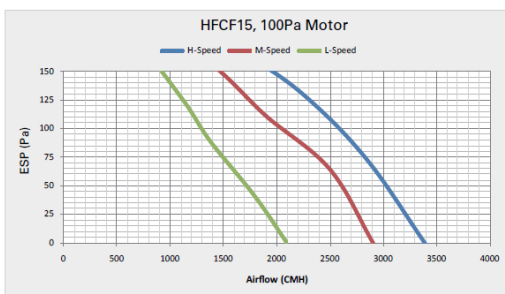
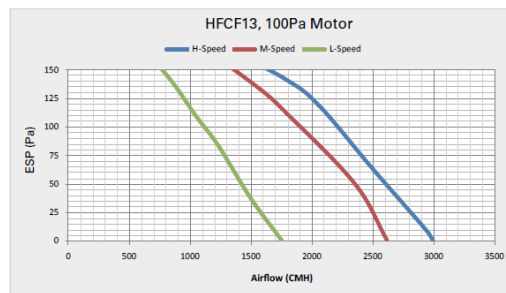
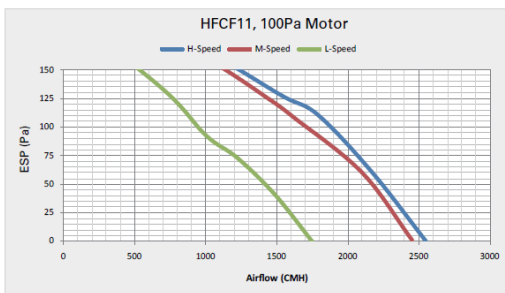
220~240V-60Hz



# Airflow Curve(12/30/50Pa Motor)

110~127V-60Hz

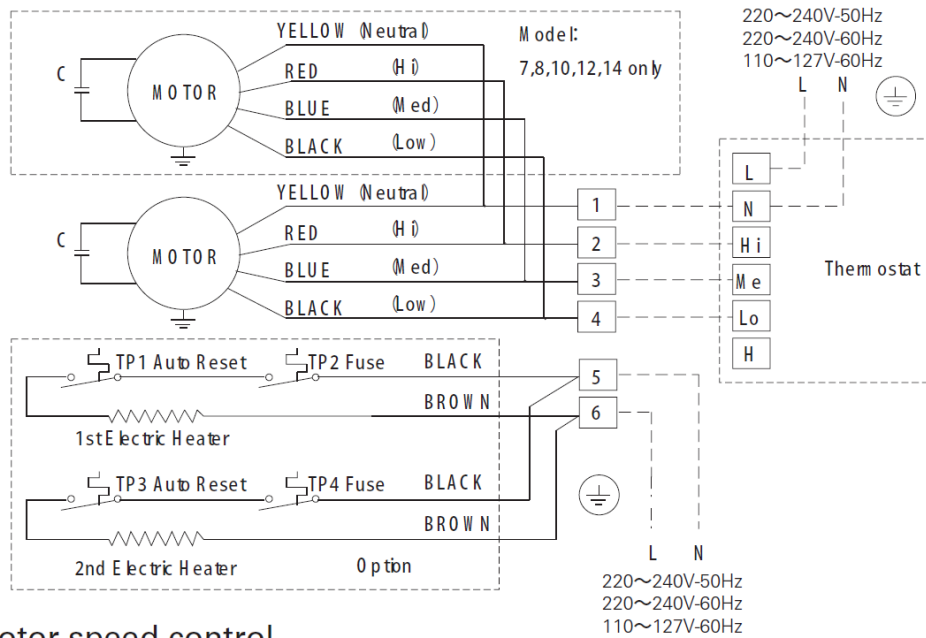


**220~240V-50Hz**

**220~240V-60Hz**


Note: Please use Trane TOPSS program or contact Trane sales to get selectable range for various configurations.



# Wiring Diagram



## Motor speed control

Yellow and Red Wires = High Speed  
Yellow and Blue Wires = Medium Speed  
Yellow and Black Wires = Low Speed

Trane can provide terminal boxes with relay inside to support e-heater application and you can freely choose according to your needs.

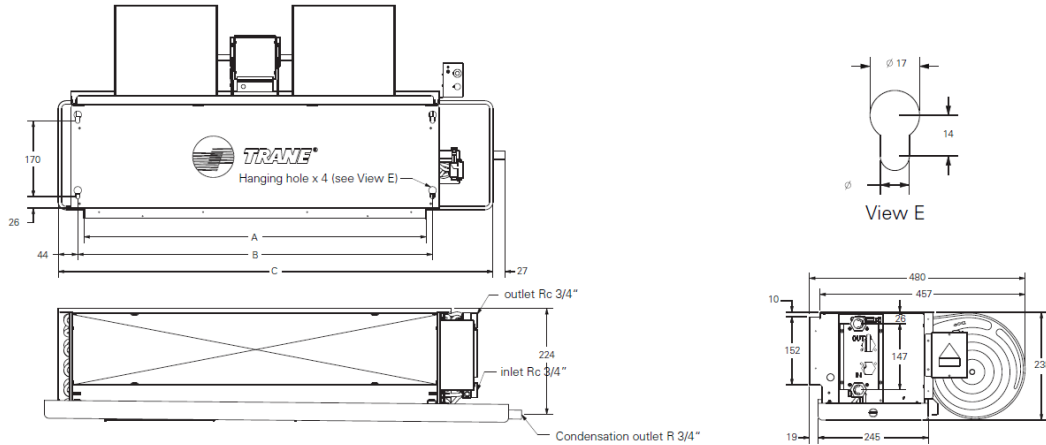
## Warning:

1. Units with different sizes or motor types are not allowed to be wired in parallel to be controlled by one thermostat.
2. Max. 2 units with same sizes and motor types may be wired in parallel to be controlled by one thermostat, provided that the thermostat capacity is large enough to control two units.
3. Only qualified personnel should install and service the equipment.
4. Cut off power before any service or maintenance starts.

# Dimensions and Weights

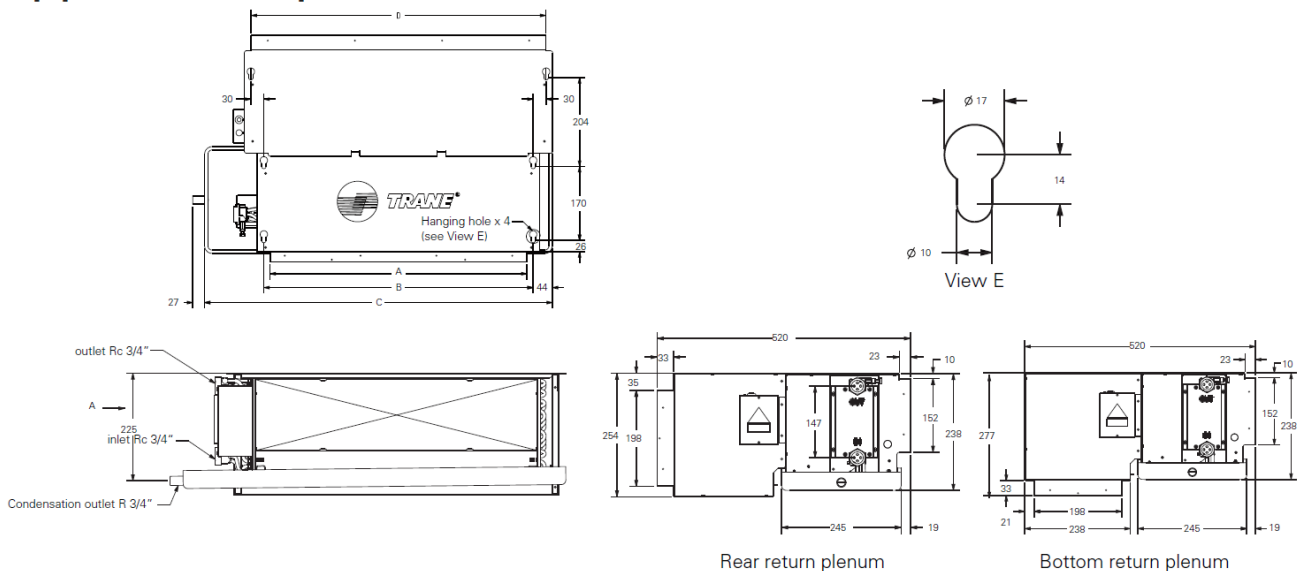
## 2-pipe (without return plenum)

Unit:mm



## 2-pipe (with return plenum)

Unit:mm



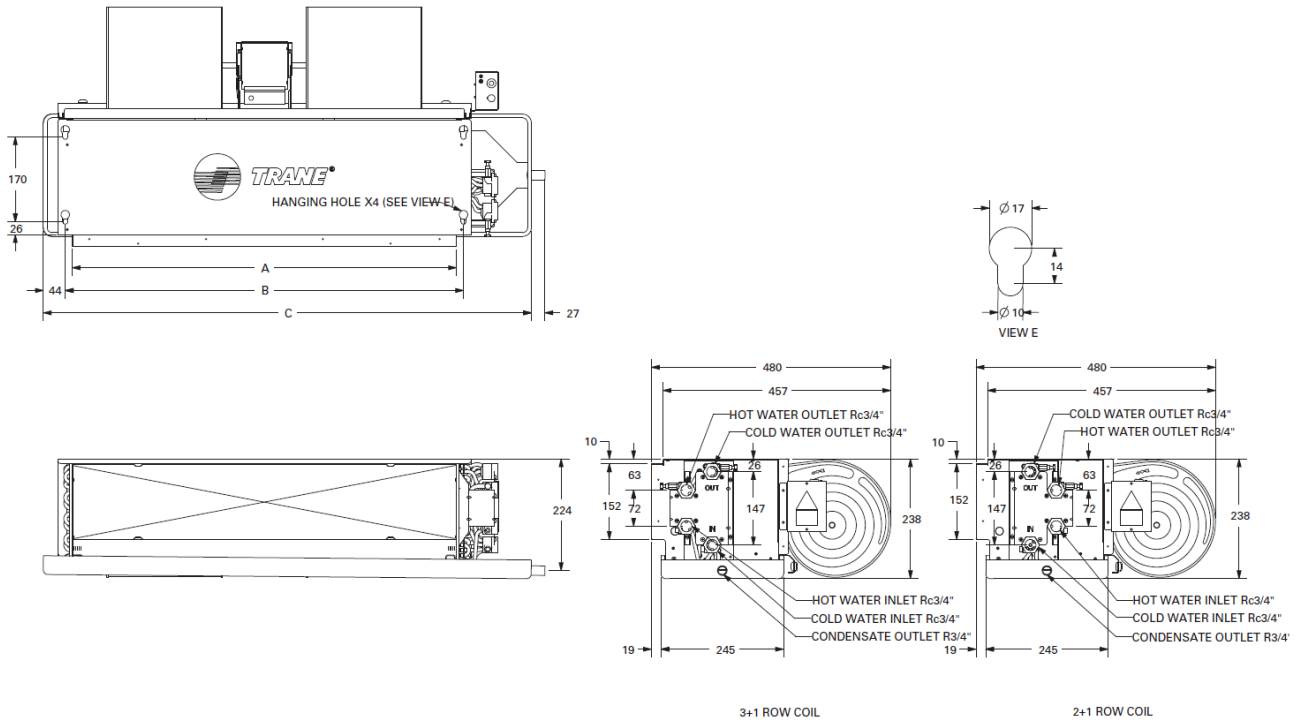
Dimension (mm)	Weight (kg)																						
	Without return plenum								With return plenum														
	12Pa				30Pa				50Pa				12Pa				30Pa				50Pa		
A	B	C*	D	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row		
HFCF02	440	468	648	526	10	11	11	10.5	11	11	10.5	11	11.5	13.5	14	14	13.5	14	14	13.5	14	14.5	
HFCF03	590	618	798	676	13	14	14	13	14	14	13.5	14	14	17	17.5	17.5	17	17.5	17.5	17	17.5	17.5	
HFCF04	690	718	898	776	15	15	16	15	15.5	16	15	15.5	16	19	19.5	20.5	19	19.5	20	19	19.5	20	
HFCF05	770	798	978	856	15.5	16	17	16	17	17	16	17	17.5	19.5	20	21	20	20.5	20.5	20	21	21.5	
HFCF06	970	998	1183	1056	18.5	19	21	19	20	21	19	20	21	23.5	24	25	23.5	24	25	24	24.5	25.5	
HFCF07	1070	1098	1283	1156	24	25	26	24	25	26	24.5	25	26	30	31	32	30	31	32	30	31	32	
HFCF08	1210	1238	1423	1296	26	27	28	26	27	28	26.5	27	28	32	33	34	32	33	34	32	33	34	
HFCF10	1330	1358	1543	1416	-	31	32	-	31	32	-	31	32	-	37.5	38.5	-	37.5	38.5	-	37.5	38.5	
HFCF12	1570	1598	1783	1656	-	34	35	-	34	35	-	34	35	-	41.5	42.5	-	42	43	-	42	43	
HFCF14	1750	1778	1963	1836	-	36	37.5	-	36.5	37.5	-	36.5	38	-	44.5	45.5	-	45	46	-	45	46.5	
					100Pa				100Pa														
					3 Row				4 Row				3 Row				4 Row						
HFCF11	1330	1358	1543	1416	33				34				39.5				40.5						
HFCF13	1570	1598	1783	1656	36				36.5				44				45						
HFCF15	1750	1778	1963	1836	37.5				39				46				47.5						

Note:  
 C dimension is standard drain pan length.  
 Add 200 to C dimension to get +200mm extended drain pan length.  
 Add 310 to C dimension to get +310mm extended drain pan length.

# Dimensions and Weights

## 4-pipe

Unit:mm



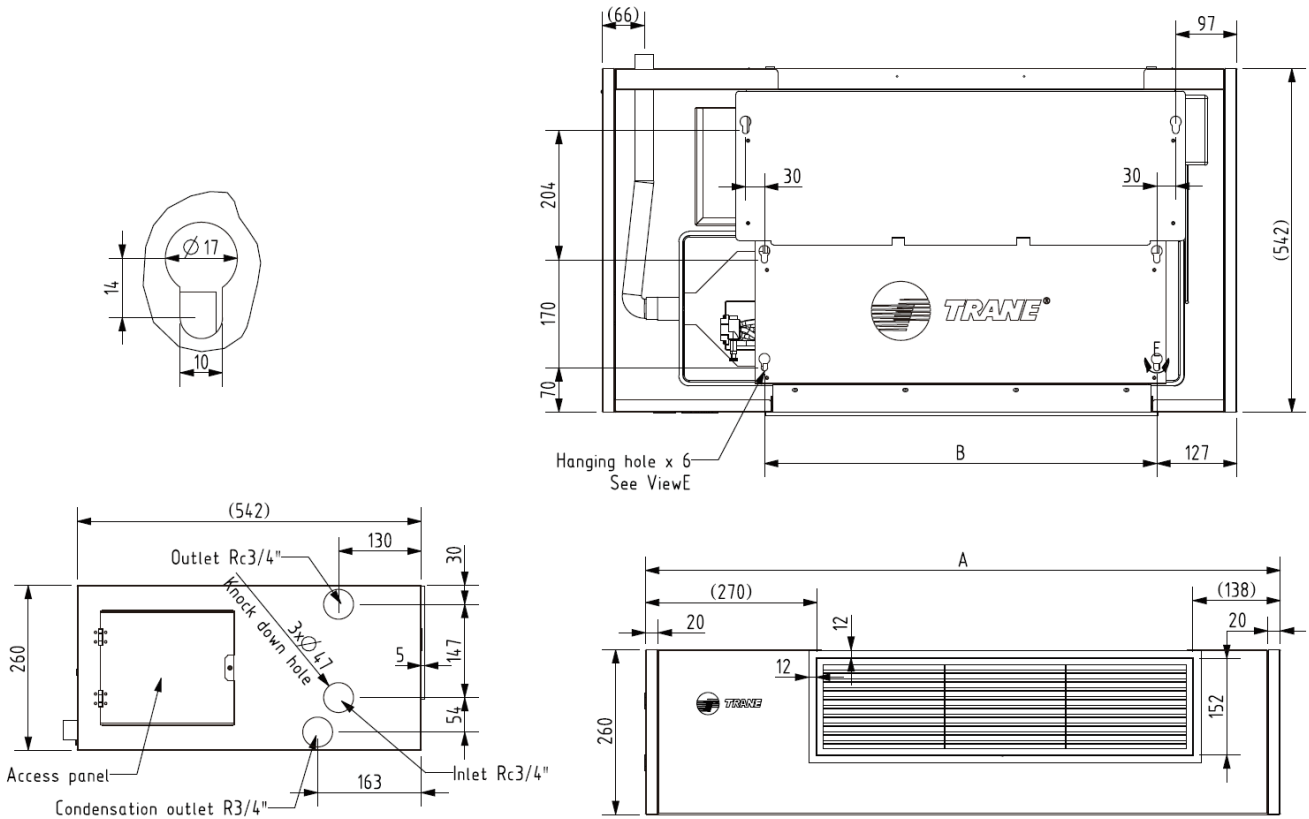
Dimension (mm)	Weight (kg)															
	Without return plenum						With return plenum									
	12Pa		30Pa		50Pa		12Pa		30Pa		50Pa					
A	B	C*	D	2+1 Row	3+1 Row	2+1 Row	3+1 Row	2+1 Row	3+1 Row	2+1 Row	3+1 Row	2+1 Row	3+1 Row	2+1 Row	3+1 Row	
HFCF02	440	468	648	526	11	11.5	11	11.5	11	12	14	14.5	14	14.5	14	15
HFCF03	590	618	798	676	14	14	14	14.5	14	14.5	17	17	17	17.5	17	17.5
HFCF04	690	718	898	776	15	16	16	16	16	16	18	19	19	19	19	19
HFCF05	770	798	978	856	16	17	17	18	17	18	19	20	20	21	20	21
HFCF06	970	998	1183	1056	19.5	20	20	21	20	21	22.5	23	23	24	23	24
HFCF07	1070	1098	1283	1156	na	26	na	26	na	26	na	29	na	29	na	29
HFCF08	1210	1238	1423	1296	27	28	27	28	28	28	30	31	30	31	31	31
HFCF10	1330	1358	1543	1416	-	32	-	32	-	32	-	35	-	35	-	35
HFCF12	1570	1598	1783	1656	-	35	-	35.5	-	35.5	-	38	-	38.5	-	38.5
HFCF14	1750	1778	1963	1836	-	38	-	38	-	38	-	41	-	41	-	41
					100Pa						100Pa					
					3+1 Row						3+1 Row					
HFCF11	1330	1358	1543	1416	34						37					
HFCF13	1570	1598	1783	1656	37.5						40.5					
HFCF15	1750	1778	1963	1836	39						42					

Note:  
 C dimension is standard drain pan length.  
 Add 200 to C dimension to get +200mm extended drain pan length.  
 Add 310 to C dimension to get +310mm extended drain pan length.

# Dimensions and Weights

## HFXF 2-pipe

Unit:mm



	Dimension(mm)		Weight (kg)
	A	B	HFXF
HFXF02	850	468	24.2
HFXF03	1000	618	28.9
HFXF04	1100	718	31.7
HFXF05	1180	798	32.9
HFXF06	1380	998	38.5
HFXF07	1480	1098	46.3
HFXF08	1620	1238	49.4
HFXF10	1740	1358	54.9
HFXF12	1980	1598	60.8
HFXF14	2160	1778	65.2

# Options Valve Package

## Specifications

Optional offer to provide factory-assembled valve package, including 2- or 3-way ON/OFF valve with electric actuator. Trane offers suitable drain-pan to best accommodate different package and avoid any condensation risk.

## Easy Installation

- Industrial standard thread joint for pipe connection.
- Terminal box for electrical wiring connection.

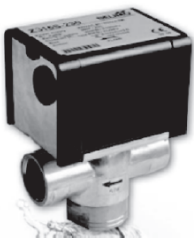
## Low Installation Cost

- Eliminate field installed for controls valve packaged and its accessories.
- Quick installation time and save field workmanship cost.

## Compact Design

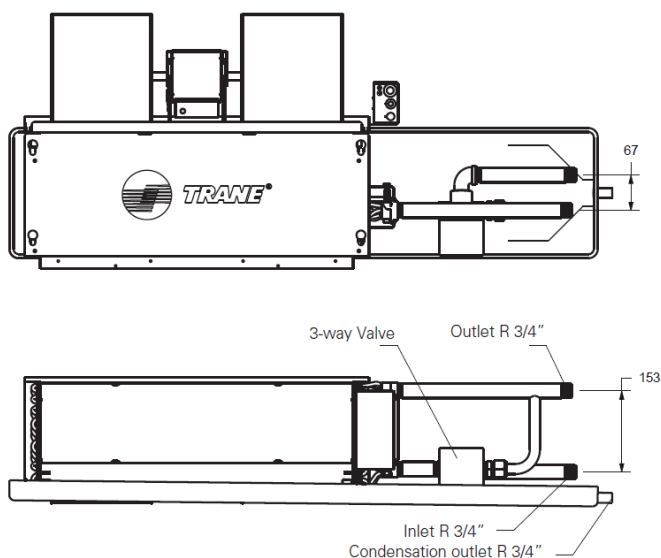
- Extended drain pan up to substantial length for piping connection.

## 2-way/3-way Valve

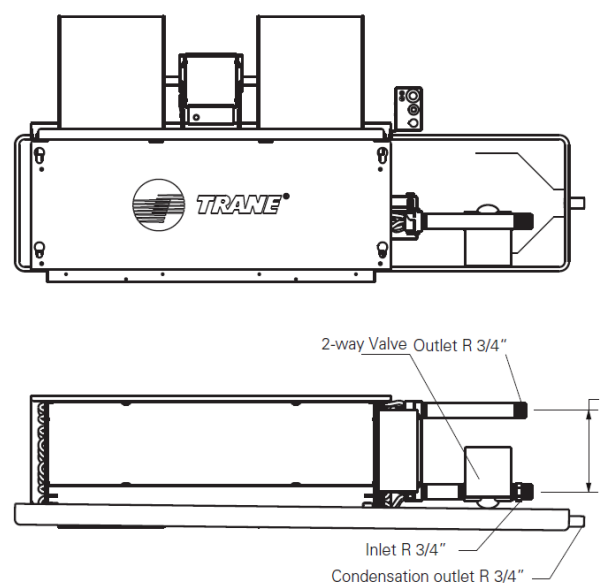


Power Consumption	Nominal Pressure	Close-off Pressure	IP Grade	Power Supply	Kv's	Valve on-off Speed	Pipe connection
6.5W	2.1MPa	344KPa	IP51	220-240V 100-127V	2.2 2.6	4-5s(Spring) 13-18s (motor)	DN20 Female Thread

### 3-way Valve



### 2-way Valve



Note: Please select extended Drain-pan (200mm) for 2-way Valve and 310mm for 3-way valve.

## Model Number Description

F W C 0 0 3 2 N 1 A A B  
 1 2 3 4 5 6 7 8 9 10 11 12

### Digits 1-3: Nomenclature

FWC = Chilled water 4-Way Cassette Unit

FWH = Chilled water Hi Wall unit

### Digits 4-6: CFM Normalized Airflow

002 = 250 CFM

003 = 300 CFM

004 = 400 CFM

005 = 500 CFM

006 = 600 CFM

008 = 750 CFM

009 = 850 CFM

010 = 950 CFM

012 = 1200 CFM

015 = 1500 CFM

### Digit 7: Unit type

2 = 2 pipe

4 = 4 pipe

### Digit 8: Electric Heating

N = None

A = E-Heater Equipped \*

### Digit 9: Voltage / Phase / Frequency

B = AC motor, 220-240V/1Ph/50Hz

1 = AC Motor, 220-240V/1Ph/60Hz

F = DC Motor, 220-240V/1Ph/50-60Hz

### Digit 10: Thermostat Options

0 = Controller suitable for remote and wired control (ordered separately)

A = Remote Controller

B = Wall Wired Controller

### Digit 11: Service Code

A = Version A

### Digit 12: Region

B = AP region

\* E-Heater is not available for FWC15.

# General Data

## AC FWC Specifications(50HZ&60HZ)

		2 pipe	003	004	005
Air Volume	High	CFM	300	400	500
	Med	CFM	260	340	430
	Low	CFM	210	280	350
Cooling Capacity		W	3000	3700	4500
Heating Capacity		W	4000	5100	6000
Electrical Auxiliary Heater (EAH)		W	1000	1000	1000
Power Input		W	50	70	95
Noise (Hi/Med/Low)		dB(A)	36/33/28	42/39/32	45/42/34
Water Flow		l/min	8.7	10.7	12.9
Water Pressure Drop		kPa	14	15	16
Panel	Net Dimension (W×H×D)	mm	647×50×647		
	Net Weight	kg	2.5		
	Packing Size (W×H×D)	mm	715×123×715		
	Gross Weight	kg	4.5		
Indoor Unit	Net Dimension (W×H×D)	mm	575×261×575		
	Net Weight	kg	16.5		
	Packing Size (W×H×D)	mm	670×290×670		
	Gross Weight	kg	20		
Pipe Connection	Water-inlet pipe	Inch	RC3/4"		
	Water-outlet pipe	Inch	RC3/4"		
	Drain pipe	mm	ODΦ25		

Notes:

1. The data is the performance in high speed with relevant static pressure.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB, 19°CWB.  
Heating conditions: entering water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
3. Noise is tested in full-anechoic test room.

## General Data

### AC FWC Specifications(50HZ&60HZ)

	2 pipe		006	008	009
Air Volume	High	CFM	590	740	820
	Med	CFM	500	620	700
	Low	CFM	420	530	590
	Cooling Capacity	W	5700	7000	7270
	Heating Capacity	W	9660	11550	12420
	Electrical Auxiliary Heater (EAH)	W	2100	2100	2700
	Power Input	W	125	130	150
	Noise (Hi/Med/Low)	dB(A)	45/41/36	46/42/37	47/43/38
	Water Flow	l/min	16.4	20	20.8
	Water Pressure Drop	kPa	23.8	25.2	27
Panel	Net Dimension (W×H×D)	mm	950×45×950		
	Net Weight	kg	6		
	Packing Size (W×H×D)	mm	1035×90×1035		
	Gross Weight	kg	9		
Indoor Unit	Net Dimension (W×H×D)	mm	840×230×840	840×230×840	840×300×840
	Net Weight	kg	25/27	25/27	30.5/33
	Packing Size (W×H×D)	mm	900×260×900	900×260×900	900×330×900
	Gross Weight	kg	30/32	30/32	36.2/29
Pipe Connection	Water-inlet pipe	Inch	RC3/4"		
	Water-outlet pipe	Inch	RC3/4"		
	Drain pipe	mm	ODΦ32		

#### Notes:

1. The data is the performance in high speed with relevant static pressure.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB, 19°CWB.  
Heating conditions: entering water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
3. Noise is tested in full-anechoic test room.



AC FWC Specifications(50HZ&60HZ)

		2 pipe	010	012	015
Air Volume	High	CFM	940	1180	1500
	Med	CFM	800	1000	1280
	Low	CFM	680	850	1080
Cooling Capacity		W	8220	10390	12900
Heating Capacity		W	13850	17580	17600
Electrical Auxiliary Heater (EAH)		W	2700	2700	-
Power Input		W	155	190	190
Noise (Hi/Med/Low)		dB(A)	48/44/39	49/45/40	50/46/41
Water Flow		l/min	23.6	29.8	36.9
Water Pressure Drop		kPa	31.2	44	40
Panel	Net Dimension (W×H×D)	mm	950×45×950		
	Net Weight	kg	6		
	Packing Size (W×H×D)	mm	1035×90×1035		
	Gross Weight	kg	9		
Indoor Unit	Net Dimension (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Net Weight	kg	30.5/33	30.5/33	31.8/37.5
	Packing Size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Gross Weight	kg	36.2/39	36.2/39	36/43.8
Pipe Connection	Water-inlet pipe	Inch	RC3/4"		
	Water-outlet pipe	Inch	RC3/4"		
	Drain pipe	mm	ODΦ32		

Notes:

1. The data is the performance in high speed with relevant static pressure.
2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27°C DB, 19°CWB.  
Heating conditions: entering water 50°C, enter air temperature 20°C, the same water flow as the cooling conditions.
3. Noise is tested in full-anechoic test room.

## General Data

### AC FWC Specifications(50HZ&60HZ)

	4 pipe		003	004	005
Air Volume	High	CFM	300	400	500
	Med	CFM	260	340	430
	Low	CFM	210	280	350
	Cooling Capacity	W	2500	2900	3500
	Heating Capacity	W	3700	4600	5100
	Electrical Auxiliary Heater (EAH)	W	1000	1000	1000
	Power Input	W	50	70	95
	Noise (Hi/Med/Low)	dB(A)	36/33/28	42/39/32	45/42/34
Water Flow	Cooling	l/min	7.2	8.4	10
	Heating	l/min	5.3	6.6	7.3
Water Pressure Drop	Cooling	kPa	22	16	24
	Heating	kPa	17	23	27
Panel	Net Dimension (W×H×D)	mm	647×50×647		
	Net Weight	kg	2.5		
	Packing Size (W×H×D)	mm	715×123×715		
	Gross Weight	kg	4.5		
Indoor Unit	Net Dimension (W×H×D)	mm	575×261×575		
	Net Weight	kg	16.5		
	Packing Size (W×H×D)	mm	670×290×670		
	Gross Weight	kg	20		
Pipe Connection	Water-inlet pipe	Inch	Cold water: G3/4" Hot water: G1/2"		
	Water-outlet pipe	Inch	Cold water: G3/4" Hot water: G1/2"		
	Drain pipe	mm	ODΦ25		

Note: 1. The data is performance in high speed.

2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27/19°C (DB/WB).

Heating conditions: entering water 70°C, temperature drop 10°C, entering air temperature 20°C (DB)

AC FWC Specifications(50HZ&60HZ)

	4 pipe		006	008	009
Air Volume	High	CFM	680	860	870
	Med	CFM	470	600	610
	Low	CFM	410	510	520
	Cooling Capacity	W	5100	5930	6170
	Heating Capacity	W	6670	7870	8060
	Electrical Auxiliary Heater (EAH)	W	2100	2100	2700
	Power Input	W	170	188	198
	Noise (Hi/Med/Low)	dB(A)	42/32/26	44/34/28	46/36/30
Water Flow	Cooling	l/min	14.6	17	17.7
	Heating	l/min	9.6	11.3	11.6
Water Pressure Drop	Cooling	kPa	15	17	20
	Heating	kPa	37	41	39
Panel	Net Dimension (W×H×D)	mm	950×45×950		
	Net Weight	kg	6		
	Packing Size (W×H×D)	mm	1035×90×1035		
	Gross Weight	kg	9		
Indoor Unit	Net Dimension (W×H×D)	mm	840×300×840		
	Net Weight	kg	35		
	Packing Size (W×H×D)	mm	900×330×900		
	Gross Weight	kg	41		
Pipe Connection	Water-inlet pipe	Inch	Cold water:RC3/4" Hot water:RC1/2"		
	Water-outlet pipe	Inch	Cold water:RC3/4" Hot water:RC1/2"		
	Drain pipe	mm	ODΦ32		

Note: 1. The data is performance in high speed.

2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27/19°C (DB/WB).

Heating conditions: entering water 70°C, temperature drop 10°C, entering air temperature 20°C (DB)

## General Data

### AC FWC Specifications(50HZ&60HZ)

	4 pipe		010	012	015
Air Volume	High	CFM	1010	1090	1230
	Med	CFM	700	760	860
	Low	CFM	610	650	740
	Cooling Capacity	W	6700	9280	10580
	Heating Capacity	W	8670	11650	12620
	Electrical Auxiliary Heater (EAH)	W	2700	2700	-
	Power Input	W	205	197	234
	Noise (Hi/Med/Low)	dB(A)	47/38/32	48/40/34	50/42/36
Water Flow	Cooling	l/min	19.2	26.6	30.3
	Heating	l/min	12.4	16.7	18.1
Water Pressure Drop	Cooling	kPa	22	32	38
	Heating	kPa	42	57	61
Panel	Net Dimension (W×H×D)	mm	950×45×950		
	Net Weight	kg	6		
	Packing Size (W×H×D)	mm	1035×90×1035		
	Gross Weight	kg	9		
Indoor Unit	Net Dimension (W×H×D)	mm	840×300×840		
	Net Weight	kg	35	38	38
	Packing Size (W×H×D)	mm	900×330×900		
	Gross Weight	kg	41	44	44
Pipe Connection	Water-inlet pipe	Inch	Cold water:RC3/4" Hot water:RC1/2"		
	Water-outlet pipe	Inch	Cold water:RC3/4" Hot water:RC1/2"		
	Drain pipe	mm	OD Φ32		

Note: 1. The data is performance in high speed.

2. Cooling conditions: entering water 7°C, temperature rise 5°C, entering air temperature 27/19°C (DB/WB).

Heating conditions: entering water 70°C, temperature drop 10°C, entering air temperature 20°C (DB)

# General Data

## AC FWH Specifications (50HZ)

Model			FWH002	FWH003	FWH004	
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m <sup>3</sup> /h	435/396/342	523/426/351	660/534/480	
		CFM	256/233/201	308/251/206	388/314/282	
Cooling	Capacity (H/M/L)	kW	1.94/1.84/1.68	2.64/2.4/1.99	2.94/2.58/2.34	
	Water flow rate(H/M/L)	m <sup>3</sup> /h	0.35/0.33/0.3	0.47/0.43/0.36	0.53/0.46/0.42	
	Water pressure drop(H/M/L)	kPa	31.6/28.6/25.2	37.5/30/24	57.2/47.6/38.7	
Heating	Capacity (H/M/L)	kW	2.34/2.15/1.94	2.9/2.6/2.22	3.46/2.75/2.52	
	Water flow rate(H/M/L)	m <sup>3</sup> /h	0.43/0.39/0.35	0.53/0.47/0.4	0.63/0.5/0.46	
	Water pressure drop(H/M/L)	kPa	35.2/34.9/30	39.3/31.5/25	70.8/55.1/46.2	
Power input (H/M/L)		W	35/32/31	47/43/39	54/51/47	
Current Input		A	0.11	0.17	0.18	
Sound pressure level		dB(A)	30/24/20	35/29/24	37/31/26	
Fan motor	Type		Low noise 3-speed fan motor			
	Quantity		1	1	1	
Fan	Type		Tangential fan			
	Quantity		1	1	1	
Coil	Row		2	2	2	
	Diameter	mm	Φ7	Φ7	Φ7	
	Tube pitch(a) x row pitch(b)		mm	21×13.37	21×13.37	21×13.37
	Dimension (W×H×D)		mm	635×315×26.74	635×315×26.74	635×315×26.74
	Fin spacing		mm	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Circuit			5	5	5
	Max. working pressure		MPa	1.6	1.6	1.6
Body	Net dimensions (W×H×D)		mm	915×290×233	915×290×233	915×290×233
	Packing size (W×H×D)		mm	1020×390×315	1020×390×315	1020×390×315
	Net weight		kg	13	13	13.3
	Gross weight		kg	16.3	16.3	16.7
Pipe connections	Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4
	Drain pipe		mm	ODΦ20	ODΦ20	ODΦ20

### Notes:

1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB,19°C WB.  
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

## General Data

### AC FWH Specifications (50HZ)

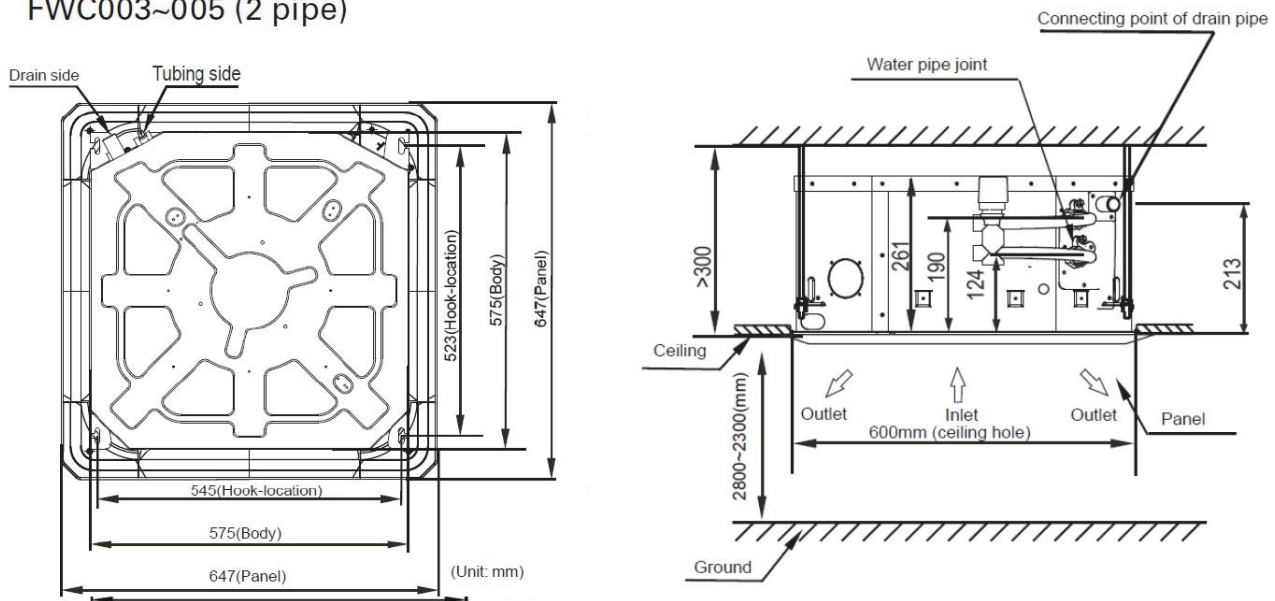
Model			FWH005	FWH006	
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m <sup>3</sup> /h	841/723/594	915/836/714	
		CFM	495/425/349	538/492/420	
Cooling	Capacity (H/M/L)	kW	4.01/3.61/3.1	4.61/4.33/3.84	
	Water flow rate(H/M/L)	m <sup>3</sup> /h	0.72/0.65/0.56	0.83/0.78/0.69	
	Water pressure drop(H/M/L)	kPa	47.1/33.5/29.7	51/39.5/34	
Heating	Capacity (H/M/L)	kW	4.39/3.8/3.27	4.55/4.2/3.82	
	Water flow rate(H/M/L)	m <sup>3</sup> /h	0.8/0.69/0.6	0.83/0.76/0.69	
	Water pressure drop(H/M/L)	kPa	48.6/40.8/31.7	48/43/33	
Power input (H/M/L)		W	60/54/48	72/60/55	
Current Input		A	0.22	0.29	
Sound pressure level		dB(A)	39/33/28	40/34/29	
Fan motor	Type		Low noise 3-speed fan motor	Low noise 3-speed fan motor	
	Quantity		1	1	
Fan	Type		Tangential fan	Tangential fan	
	Quantity		1	1	
Coil	Row		2	2	
	Diameter	mm	Φ7	Φ7	
	Tube pitch(a) x row pitch(b)		mm	21×13.37	21×13.37
	Dimension (W×H×D)		mm	785×315×26.74	785×315×26.74
	Fin spacing		mm	1.5	1.5
	Fin type			Hydrophilic aluminum	Hydrophilic aluminum
	Circuit			5	5
	Max. working pressure		MPa	1.6	1.6
Body	Net dimensions (W×H×D)		mm	1072×315×237	1072×315×237
	Packing size (W×H×D)		mm	1180×415×315	1180×415×315
	Net weight		kg	15.8	15.8
	Gross weight		kg	19.4	19.4
Pipe connections	Water inlet/outlet pipe		inch	G3/4	G3/4
	Drain pipe		mm	ODΦ20	ODΦ20

**Notes:**

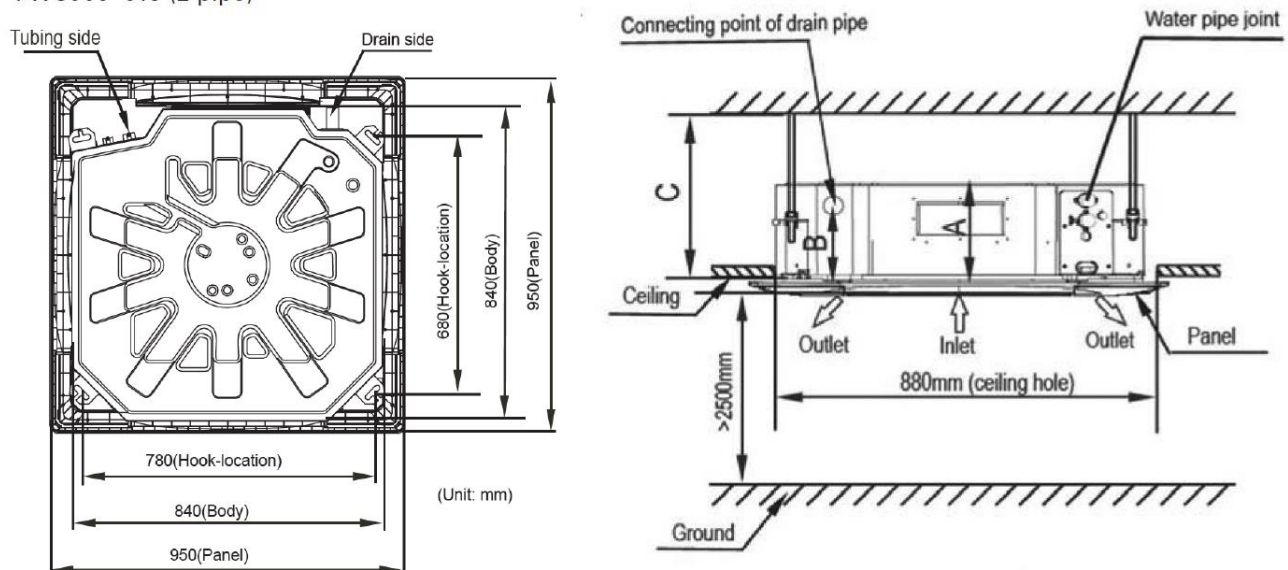
1. H: high fan speed; M: medium fan speed; L: low fan speed
2. Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB,19°C WB.  
Heating Conditions: Entering Water 50°C, Enter air temperature 20°C, and water flow is same to the cooling conditions.
3. Noise is tested in semi-anechoic test room.

## Dimensions (AC FWC)

### FWC003~005 (2 pipe)

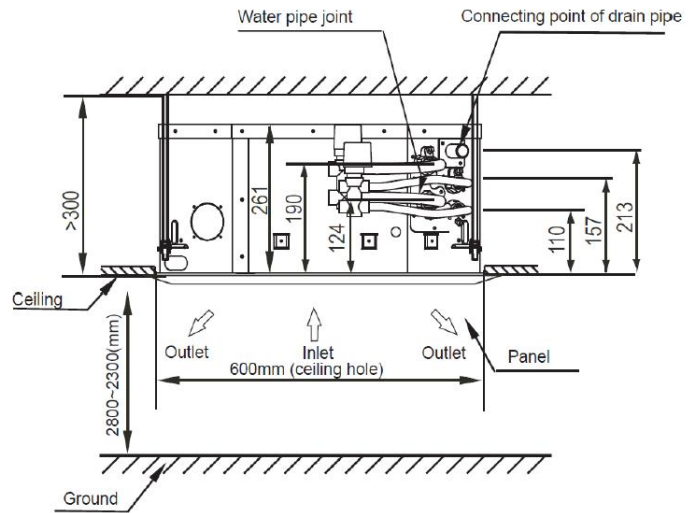
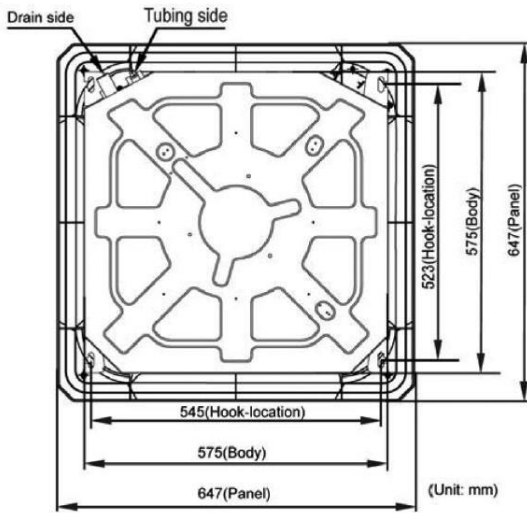


### FWC006~015 (2 pipe)

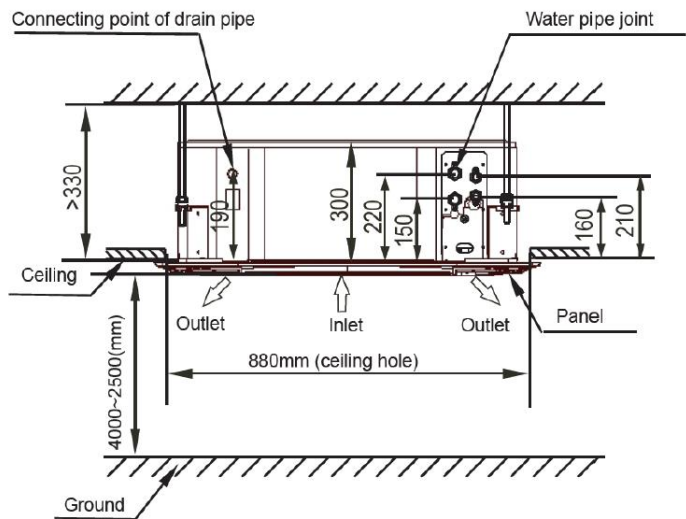
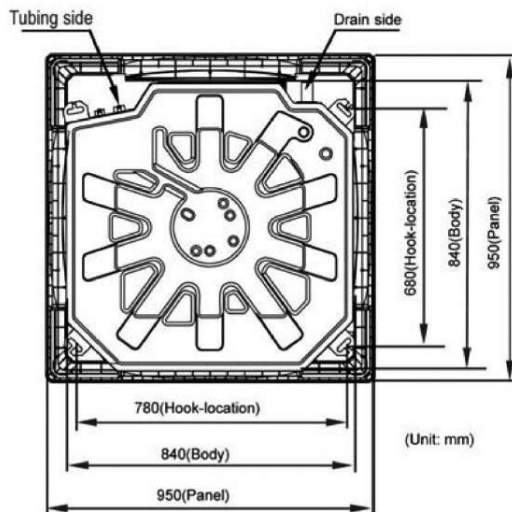


Model	A	B	C
600CFM, 750CFM	230	170	>260
850CFM, 950CFM, 1200CFM, 1500CFM	300	190	>330

FWC003~005 (4 pipe)



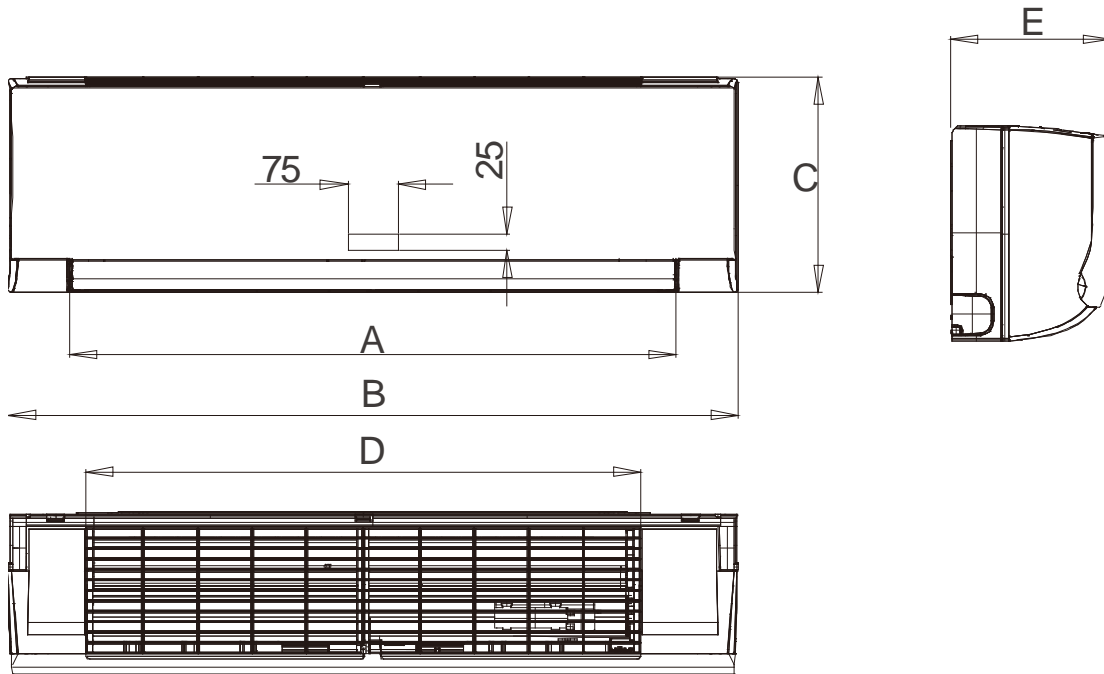
FWC006~015 (4 pipe)





# Dimension (AC FWH)

FWH02~06



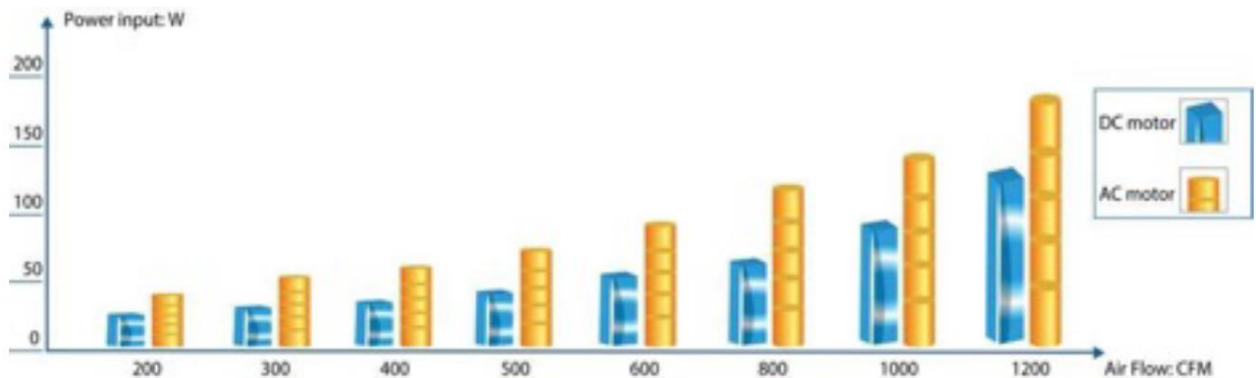
Model	A	B	C	D	E
FWH02/03/04	732	915	290	663	233
FWH05/06	892	1072	315	813	237

## Features & Benefits

Trane chilled water fan coils are designed and manufactured based on advanced technology and materials. Its super slim design has advantages from an aesthetic perspective, space saving and ease of installation. With the design that allows a large volume of air flow, these models can increase the ventilation frequency of the room and balance the temperature distribution within the rooms. Cassette fan coil units also have the option of a fresh air inlet to improve indoor air quality. They can be applied in hotels, offices, hospitals, airports, etc.

This new Trane DC FCU equipment adopts brushless DC motor, the DC motor is up to 90% efficient.

The power consumption of the DC FCU can be reduced by more than 30% compared to a similar FCU with traditional AC motor.



### Brushless DC Motor

The robust motor uses a fully enclosed designed structure and is easy to maintain. The motor bearings can run up to 80,000 hours continuously with high operating efficiency that additionally saves energy.



### Water valve

Wall-mounted (FWH) models come standard with a 3-way valve with a built-in bypass. On the other hand, Cassette (FWC) units do not include a standard valve; this must be ordered separately.

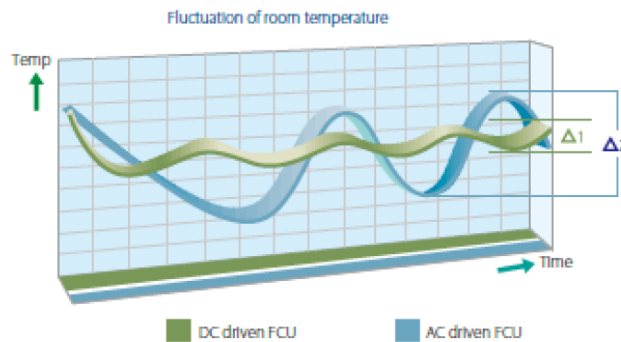
Details of the valve that ships with the High Wall (FWH) models are shown at page 17.



## Features and Benefits

### Temperature control

The inverter DC fan coil fan motor adjusts the air outlet flow based on the thermal load of the room, achieving less fluctuation in temperature and better thermal comfort of the environment.



### Cassette Units:

- Four-way air discharge and rotating blades for better air Distribution.
- Elegant appearance that matches the architectural design.
- Exclusive design of the centrifugal fan with high efficiency and ultra low noise level.
- Outside air intake in models 06 to 15.
- Side outlet for auxiliary duct to adjoining room in models 06 to 15.
- Internal drain pump to drain condensation water. 500 mmH<sub>2</sub>O in equipment 03 to 05 and 750 mmH<sub>2</sub>O in equipment 06 to 15.
- Low weight and easy installation.
- Wired (TCONTKJR12B) or wireless (TCONTRM05B) controller options.
- Option of built-in 3-way valve (RAYVALV0331 or RAYVALV0305).

### Hi Wall Units:

- Sleek new panel design that integrates easily into all interior designs.
- Low noise level with multi-directional air outlet.
- 3-way valve included as STD with high wall units.
- Low weight and easy installation.
- Wired (TCONTKJR12B) or wireless (TCONTRM05B) controller options.

## General Data (DC FWC)

### 4-way cassette units - 003, 004, 006 (50 / 60Hz)

4-way cassette units

FWC			003	004	005
Air volume	High	CFM	314	359	459
	Med	CFM	252	281	359
	Low	CFM	189	224	290
Cooling capacity		W	2980	3960	4200
Heating capacity		W	4010	5400	5760
Electrical power		W	15	28	43
Noise level (H/M/L)		dB(A)	39/33/27	42/36/30	43/38/32
Water flow		M <sup>3</sup> /hs	0.53	0.70	0.75
Water pressure drop		kPa	10	11.5	12.32
Panel	Net dimensions (W × H × D)	mm	647×50×647		
	Net weight	kg	2.5		
	Packing size (W × H × D)	mm	715×123×715		
	Gross weight	kg	4.5		
Indoor Unit	Net dimensions (W × H × D)	mm	575×261×575		
	Net weight (with EAH)	kg	16.5		
	Packing size (W × H × D)	mm	670×290×670		
	Gross weight	kg	22.5		
Hydraulic connection	Water inlet pipe	In	G3/4"		
	Water outlet pipe	In	G3/4"		
	Condensation tube	mm	ODØ25		

#### Notes:

1. Data is high speed performance with std static pressure.
2. Cooling conditions: Water inlet 7 ° C, temperature rise 5 ° C, air inlet 27 ° C DB / 19 ° CWB. Heating conditions: 50 ° C water inlet, 20 ° C air inlet, the same water flow as the cooling conditions.
3. Noise is tested in an anechoic test room.

## General Data

### 4-way cassette units - 006, 008, 009 (50 / 60Hz)

FWC			006	008	009
Air volume	High	CFM	691	722	853
	Med	CFM	580	600	674
	Low	CFM	451	476	595
Cooling capacity		W	5930	6120	7520
Heating capacity		W	8420	8620	10370
Electrical power		W	41	49	68
Noise level (H/M/L)		dB(A)	43/39/33	44/40/34	45/40/37
Water flow		M <sup>3</sup> /hs	1.05	1.10	137
Water pressure drop		kPa	19.2	21.3	20.1
Panel	Net dimensions (W × H × D)	mm	950×45×950		
	Net weight	kg	6		
	Packing size (W × H × D)	mm	1035×90×1035		
	Gross weight	kg	9		
Indoor Unit	Net dimensions (W × H × D)	mm	840×230×840	840×230×840	840×300×840
	Net weight (with EAH)	kg	23	23	27
	Packing size (W × H × D)	mm	900×237×900	900×237×900	900×307×900
	Gross weight	kg	28	28	33
Hydraulic connection	Water inlet pipe	In	RC3/4"		
	Water outlet pipe	In	RC3/4"		
	Condensation tube	mm	ODØ32		

#### Notes:

1. Data is high speed performance with std static pressure.
2. Cooling conditions: Water inlet 7 ° C, temperature rise 5 ° C, air inlet 27 ° C DB / 19 ° CWB. Heating conditions: 50 ° C water inlet, 20 ° C air inlet, the same water flow as the cooling conditions.
3. Noise is tested in an anechoic test room.

**4-way cassette units - 010, 012, 015 (50 and 60 Hz)**

FWC			010	012	15
Air volume	High	CFM	900	930	1100
	Med	CFM	720	806	832
	Low	CFM	647	727	704
Cooling capacity		W	7840	7870	11190
Heating capacity		W	10860	10920	14920
Electrical power		W	75	85	126
Noise level (H/M/L)		dB(A)	46/42/39	48/44/41	49/43/39
Water flow		l/min	23.6	29.8	36.9
Water pressure drop		kPa	31.2	44	40
Panel	Net dimensions (W × H × D)	mm	950×45×950		
	Net weight	kg	6		
	Packing size (W × H × D)	mm	1035×90×1035		
	Gross weight	kg	9		
Indoor Unit	Net dimensions (W × H × D)	mm	840×300×840		
	Net weight (with EAH)	kg	27	27	29.5
	Packing size (W × H × D)	mm	900×330×900		
	Gross weight	kg	33	33	34.5
Hydraulic connection	Water inlet pipe	In	RC3/4"		
	Water outlet pipe	In	RC3/4"		
	Condensation tube	mm	ODØ32		

**Notes:**

1. Data is high speed performance with std static pressure.
2. Cooling conditions: Water inlet 7 ° C, temperature rise 5 ° C, air inlet 27 ° C DB / 19 ° CWB. Heating conditions: 50 ° C water inlet, 20 ° C air inlet, the same water flow as the cooling conditions.
3. Noise is tested in an anechoic test room.

## General Data

### High Wall units - 002, 003, 004, 005, 006 (50 and 60 Hz)

High Wall units

FWC			002	003	004	005	006
Air volume	High	CFM	289	344	489	507	575
	Med	CFM	267	285	405	435	499
	Low	CFM	235	242	347	372	421
Cooling capacity		W	2700	2910	3810	4470	4870
Heating capacity		W	3020	3290	5080	5680	6310
Electrical power		W	12	15	34	26	38
Noise level (H/M/L)		dB(A)	32/30/27	32/27/23	45/39/35	38/34/30	44/40/35
Water flow		M <sup>3</sup> /hs	0.48	0.51	0.67	0.77	0.85
Water pressure drop		kPa	31.61	37.2	56.75	41.17	50
Indoor Unit	Net dimensions (W × H × D)	mm	915×290×233			1072×315×237	
	Net weight	kg	12.7	12.7	15.1		14.9
	Packing size (W × H × D)	mm	1020×390×315			1180×415×315	
	Gross weight	kg	17.3	17.6	16.3	19	18.6
Hydraulic connection	Water inlet pipe	In	G3/4"				
	Water outlet pipe	In	G3/4"				
	Condensation tube	mm	ODØ20				

#### Notes:

1. Data is high speed performance with std static pressure.
2. Cooling conditions: Water inlet 7 ° C, temperature rise 5 ° C, air inlet 27 ° C DB / 19 ° CWB. Heating conditions: 50 ° C water inlet, 20 ° C air inlet, the same water flow as the cooling conditions.
3. Noise is tested in an anechoic test room.

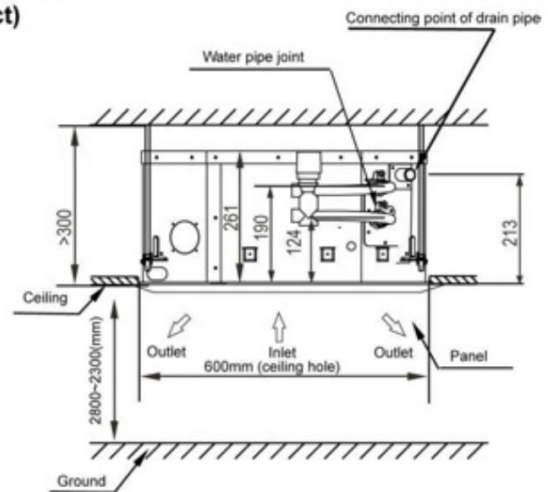
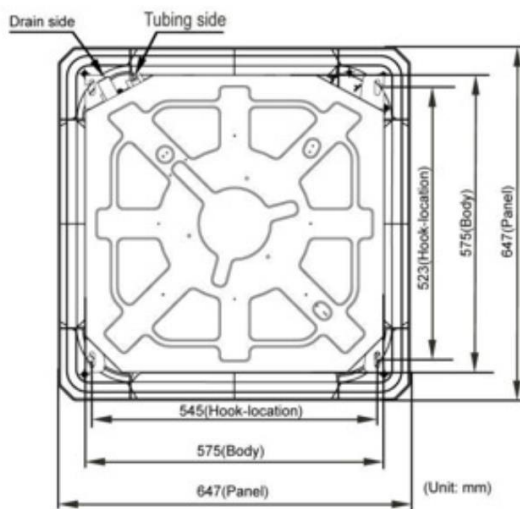
# Dimensions and Specifications

## Dimensions 50/60HZ (DC)

FWC003-005



**Four-way Cassette  
(compact)**

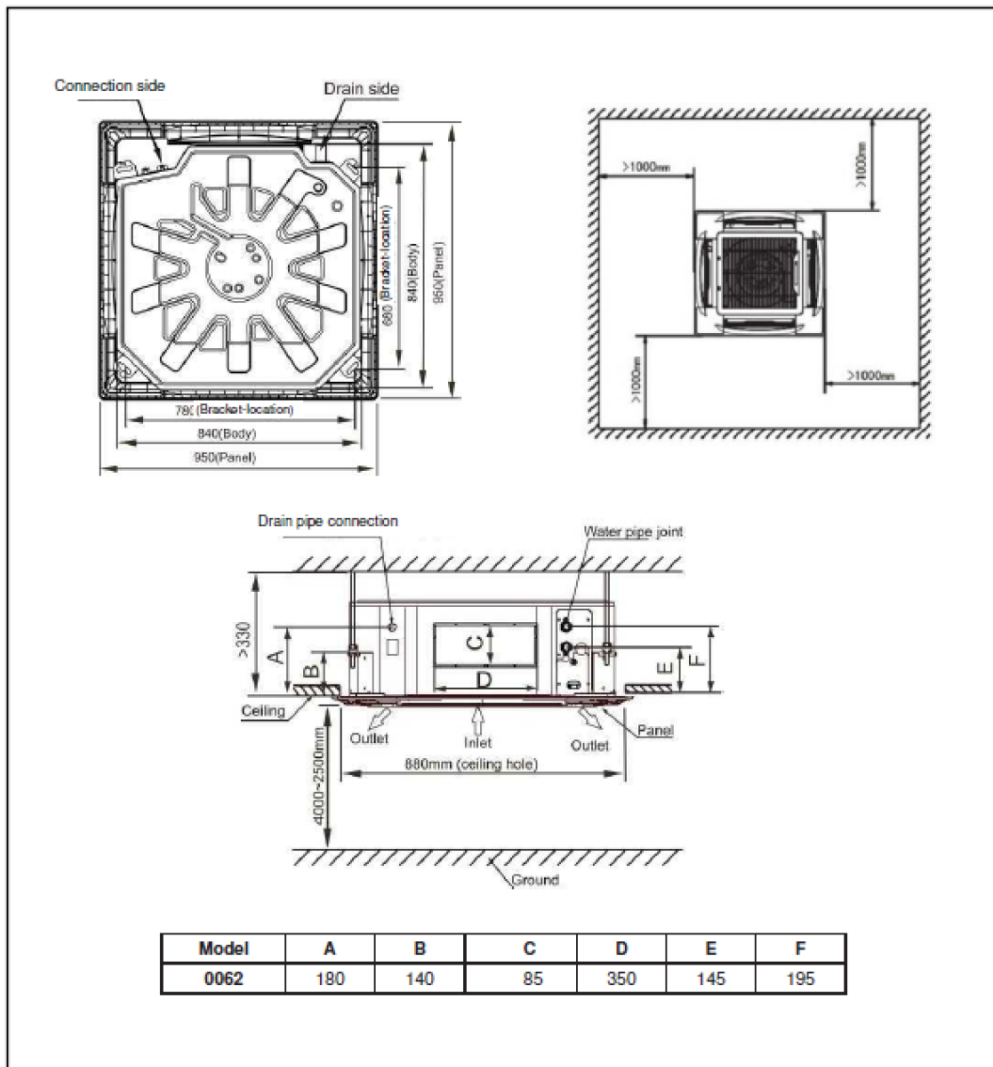




FWC006-015

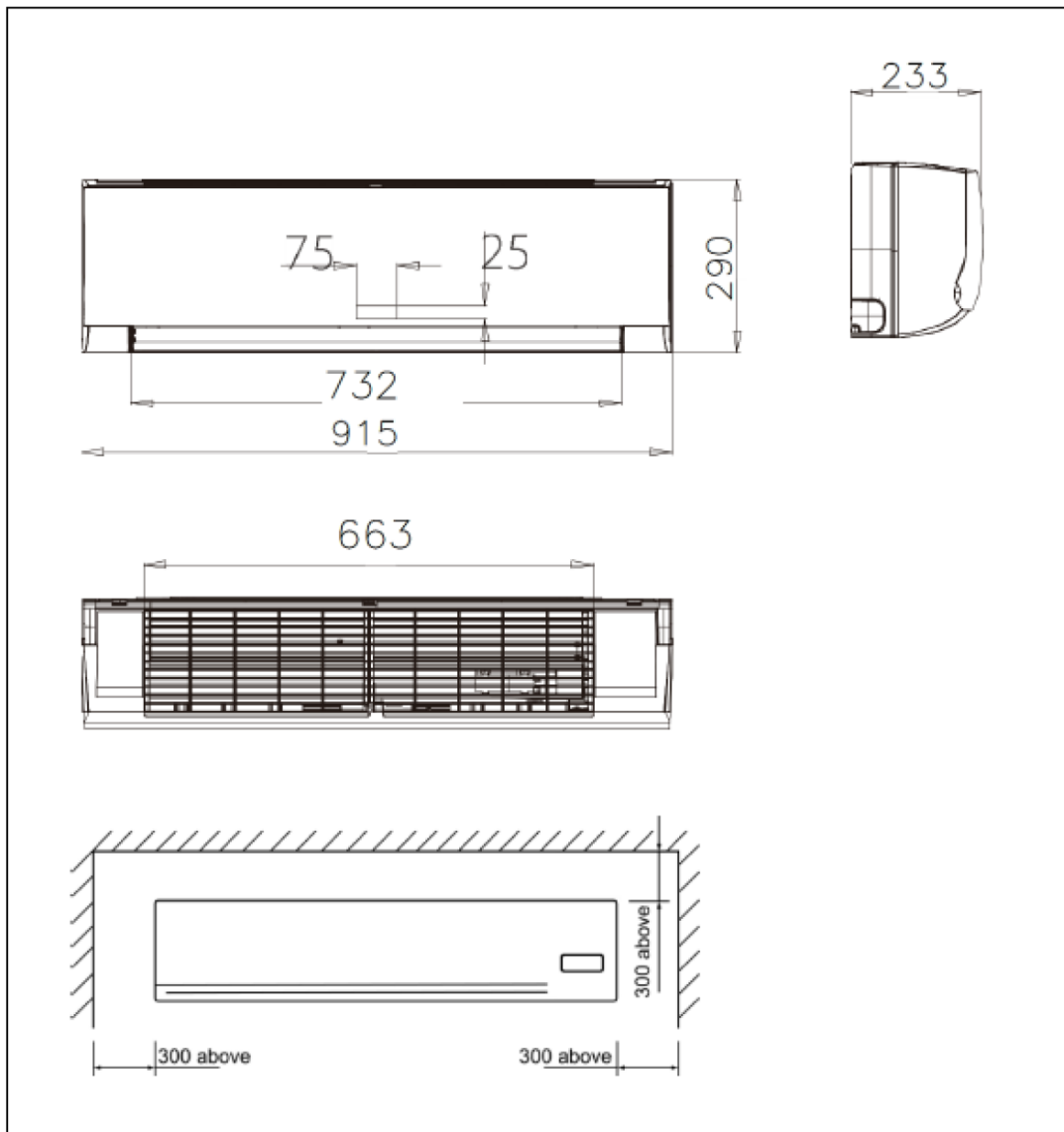
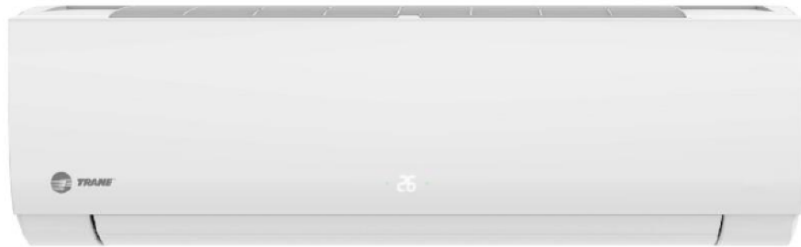


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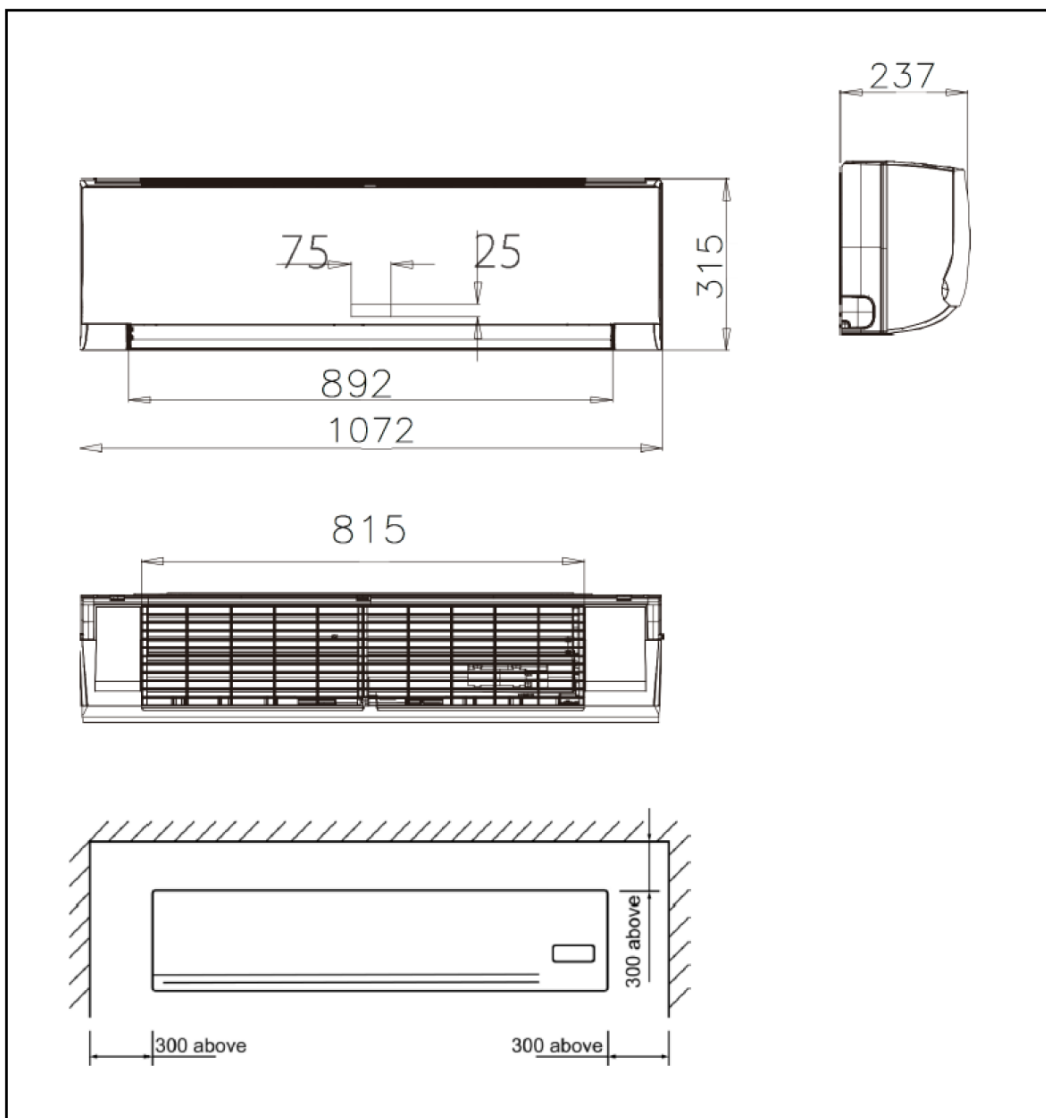
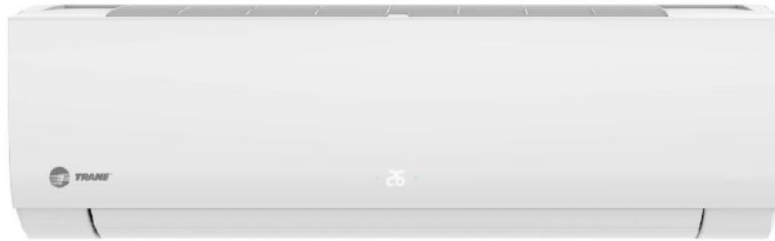


## Dimensions 50/60HZ (DC)

FWH002~004



FWH005~006



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