

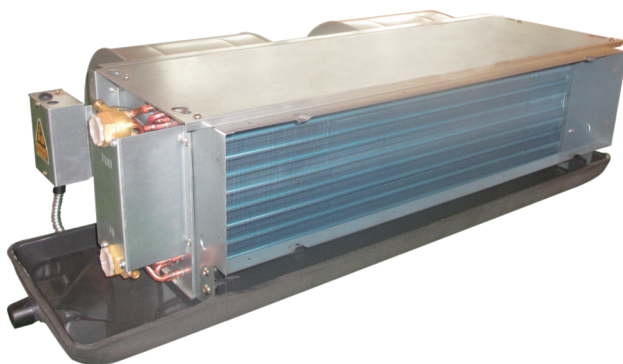


Product Catalog

HFCF/HFXF

Horizontal Chilled Water
Fan Coil Unit

Airflow: 200~1500 CFM



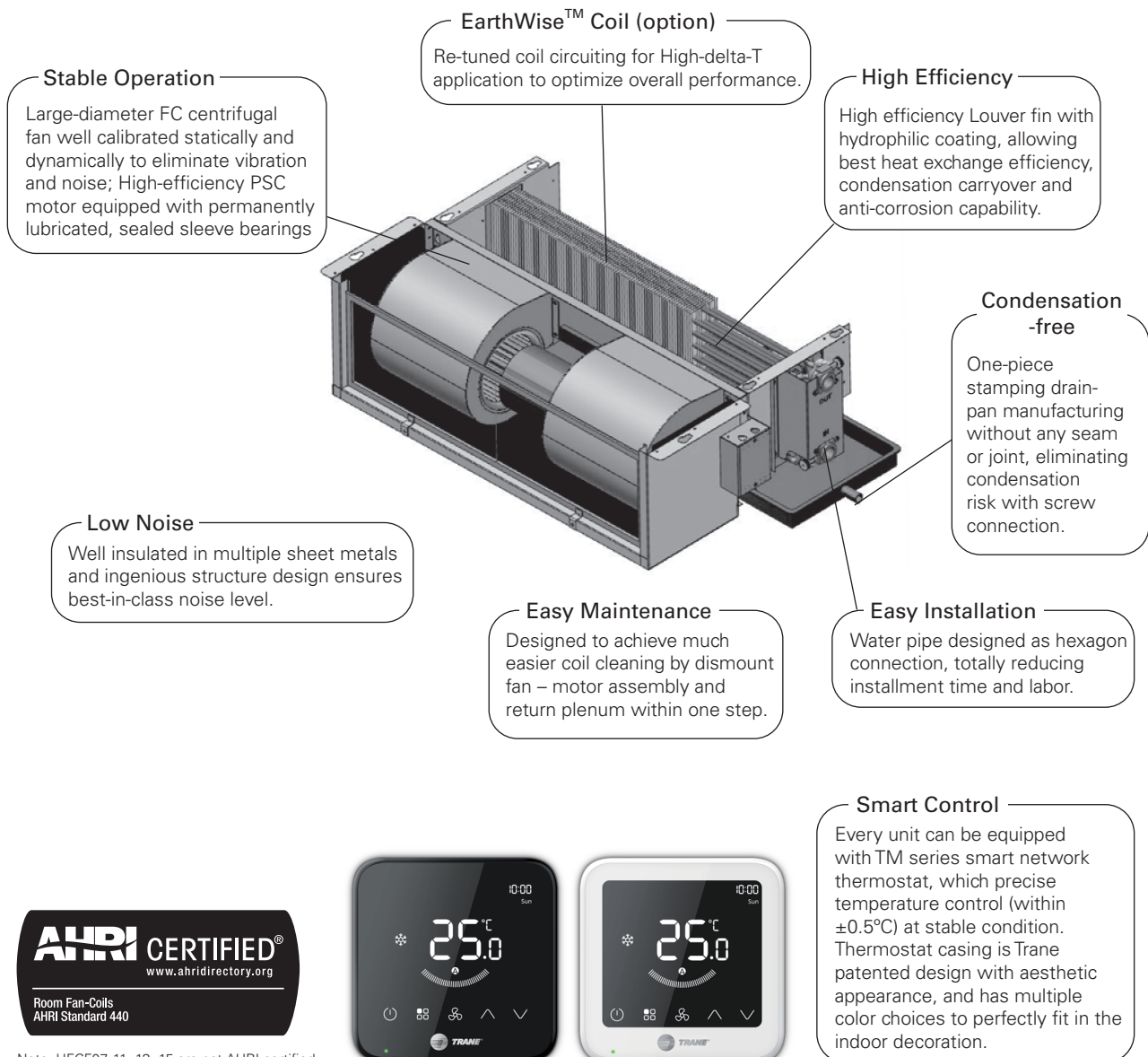
Features and Benefits

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



Virus Killing Options



Hi E.S Filter

High Voltage Electrostatic Filter option can remove particles from the air passing as well as kill virus and bacteria by the energy released from the high pressure charge.



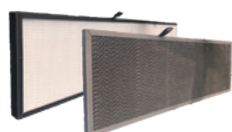
PCO Filter

Nanometer TiO_2 photo-catalyst stimulated under UV light irradiation can generate "electron - hole" pairs, which can decompose VOC, destroy bacteria cell wall, and achieve the goal of the sterilization and purify the air quality.



Anion Generator

Anion generator can generate million of anion to kill bacteria, mould, virus, purify air and Remove static electricity.



PM2.5/Carbon filter

PM2.5 filter uses imported super low pressure material to assure high efficiency. Active carbon filter has high efficiency material to absorb formaldehyde from air.



Green fin Coil

Green fin coil has a special coating fin which can generate a Bacteriostatic environment, even in Humid running status it can still keep the bacteriostatic performance.

中国建筑科学研究院有限公司建筑节能与能源检测中心
Building Performance and Energy Testing Center of CBEI
国家空调设备质量监督检验中心
National Center of Quality Supervision and Inspection and Testing for Air Conditioning Equipment
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序号 No.	检测项目 Tested Item	标准 Standard	检测结果 Test Results
1	静压效率 (%) Efficiency Rate	GB 19576-2015 GB 19576-2015	99.9

检验结论:
Tested Results:
1. 静压效率符合标准要求, 检测结果为 99.9%。
The test results of efficiency rate meet the requirements, and the test results are 99.9%.
2. 静压效率符合标准要求, 检测结果为 99.9%。
The test results of efficiency rate meet the requirements, and the test results are 99.9%.

Hi E.S. filter:
PM2.5 cleaning efficiency
> 99.9%;
Sterilization rate >99%

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Building Performance and Energy Testing Center of CBEI
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序号 No.	检测项目 Tested Item	标准 Standard	检测结果 Test Results
1	静压效率 (%) Efficiency Rate	GB 19576-2015 GB 19576-2015	99.9

检验结论:
Tested Results:
1. 静压效率符合标准要求, 检测结果为 99.9%。
The test results of efficiency rate meet the requirements, and the test results are 99.9%.
2. 静压效率符合标准要求, 检测结果为 99.9%。
The test results of efficiency rate meet the requirements, and the test results are 99.9%.

PCO filter:
Sterilization rate >99%

广微测
Guangwei Testing
广东省微生物分析检测中心
Guangdong Microbiology Analysis Testing Center
分析检测报告
Analysis Test Report
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检测项目 Tested Item	标准 Standard	检测结果 Test Results
1. 细菌总数 Total Bacteria	GB 19576-2015	<100
2. 霉菌总数 Total Mold	GB 19576-2015	<100

Anion:
H1N1 removal rate >99%

广微测
Guangwei Testing
广东省微生物分析检测中心
Guangdong Microbiology Analysis Testing Center
分析检测报告
Analysis Test Report
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检测项目 Tested Item	标准 Standard	检测结果 Test Results
1. 细菌总数 Total Bacteria	GB 19576-2015	<100
2. 霉菌总数 Total Mold	GB 19576-2015	<100

Bacteriostatic fin:
H1N1 removal rate >99%

Model Number Descriptions

HFCF Horizontal Concealed FCU

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

Model Number Descriptions

HFXF Horizontal Exposed FCU

<u>H</u>	<u>F</u>	<u>X</u>	<u>F</u>	<u>0</u>	<u>2</u>	<u>L</u>	<u>3</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>A</u>	<u>0</u>	<u>2</u>	<u>A</u>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Digit 1:	H	Horizontal															
Digit 2:	F	Fan Coil Unit															
Digit 3:	X	Exposed															
Digit 4:	F	Design Sequence															
Digit 5, 6:		Size--Nominal Airflow															
		02	200 CFM														
		03	300 CFM														
		04	400 CFM														
		05	500 CFM														
		06	600 CFM														
		07	700 CFM														
		08	800 CFM														
		10	1000 CFM														
		12	1200 CFM														
		14	1400 CFM														
Digit 7:		Connection Side															
	L	Left Hand Connection															
	R	Right Hand Connection															
Digit 8:		Coil Rows															
	3	3 Rows Cooling															
	C	3 rows (EarthWise)															
	H	3 rows hi-capacity (EarthWise)															
	7	3 Rows Cooling, [2.5MPa]															
	R	3 rows (EarthWise), [2.5MPa]															
	W	3 rows hi-capacity (EarthWise), [2.5MPa]															
Digit 9:		Electric Heater															
	0	No Electric Heater															
	1	With Electric Heater															
		(w/ Relay in Terminal Box)															
Digit 10:		Motor Type															
	1	PSC Motor-ESP 12Pa (ESP 0Pa)															
Digit 11:		Voltage/Hertz/Phase															
	1	220~240/50/1															
	2	220~240/60/1(Without HFXF07)															
	3	00~127/60/1(Without HFXF07)															
Digit 12:		Valve PACKAGE															
	0	None															
Digit 13:		CONTROL															
	0	No Control															
	A	LCD Thermostat (TM50)															
	5	LCD network Thermostat, (Black, TM-A10B)															
	6	LCD network Thermostat, (White, TM-A10W)															
Digit 14:		Plenum Filter															
	A	Rear Return Air Plenum															
	B	Rear Return Air Plenum w/6mm Nylon Filter															
	C	Rear Return Air Plenum w/20mm AI															
	G	Rear Return Air Plenum w/ Plug in PCO															
	H	Rear Return Air Plenum w/ Plug in PCO w/20mm AI Filter															
Digit 15:		Drain Pan															
	A	Cold-roll Steel w/ PE Insulation															
	D	Stainless Steel w/ PE Insulation															
	G	Cold-roll Steel, Non-flammable Insulation															
Digit 16:		IAQ Option															
	0	No IAQ Option															
Digit 17:		Design Version															
	2	Design Version															
	S	Design Version															
Digit 18:		Region															
	A	APR															
	B	MAIR															
	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 ⁽²⁾	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) ⁽⁵⁾	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 ⁽³⁾	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	W	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
30Pa	38.0		40.0	41.5		43.5	46.0	46.0	46.5	49.0	51.0	53.0	
50Pa	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) ⁽⁵⁾	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) ⁽⁵⁾	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		38.0	40.0	41.5	43.5	46.0	46.0	46.5	49.0	51.0	53.0
	50Pa		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) ⁽⁵⁾	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
	Water Pressure Drop	kPa	44	41	54
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) ⁽⁵⁾		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	W	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		38.0	40.0	41.5	43.5	46.0	46.0	46.5	
	50Pa		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
30Pa		38.0		40.0	41.5	43.5	46.0	46.0	46.5	49.0	51.0	53.0
50Pa		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;

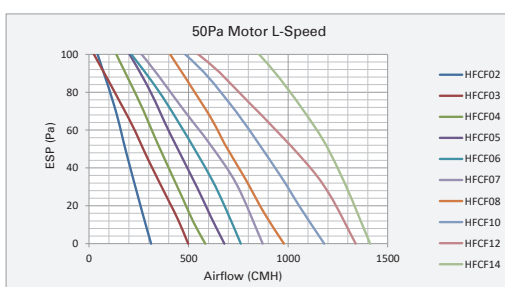
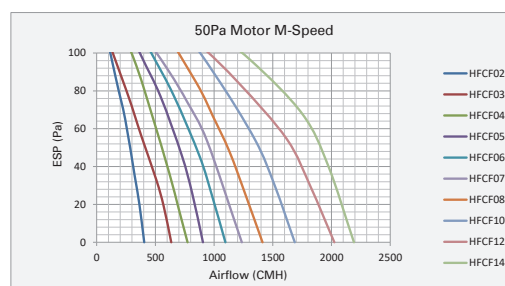
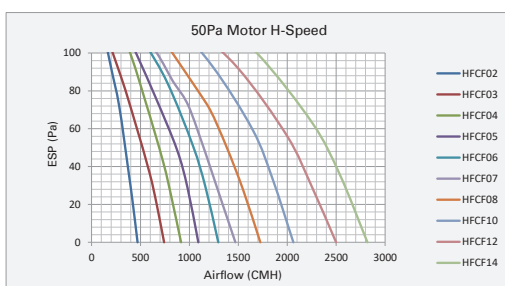
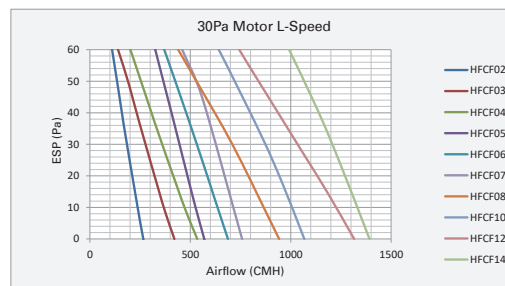
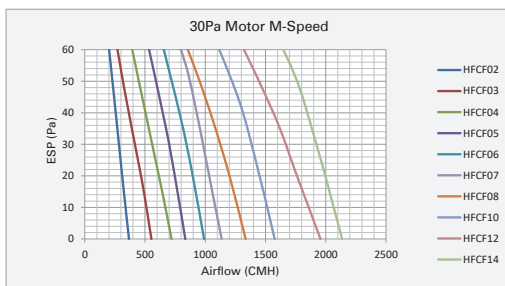
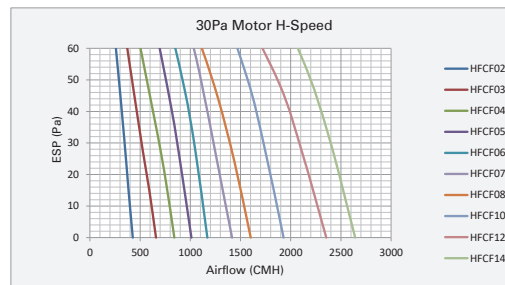
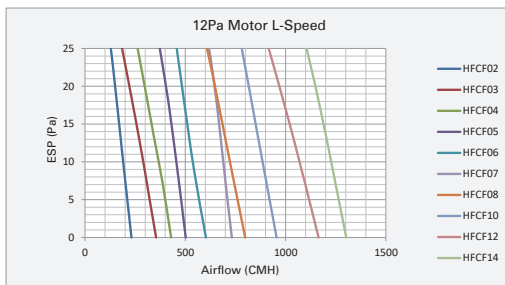
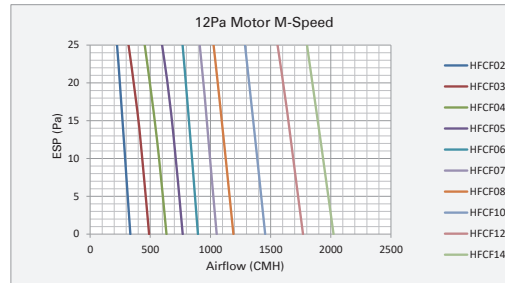
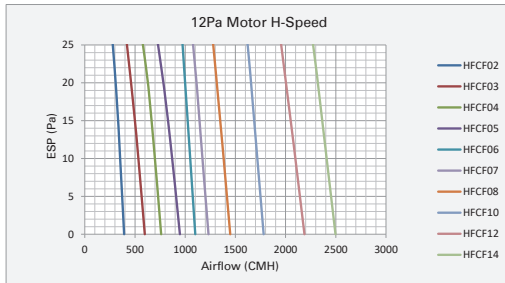
3.EarthWise Operation:

- 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;

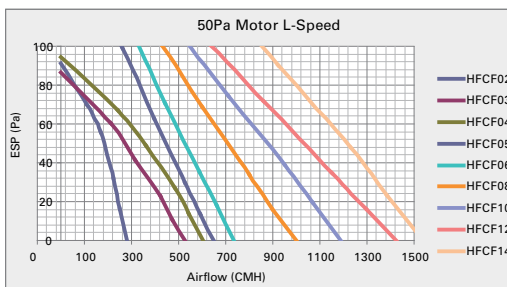
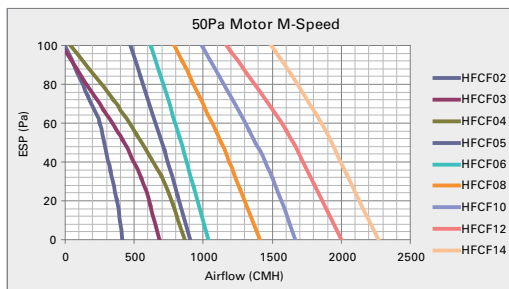
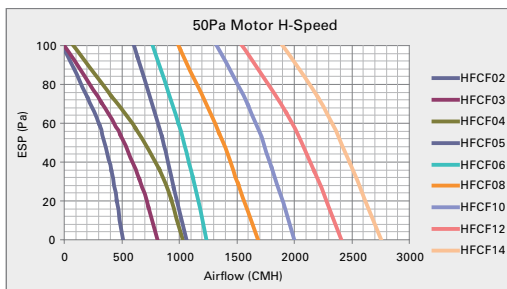
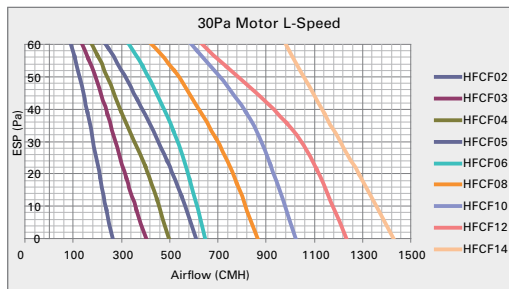
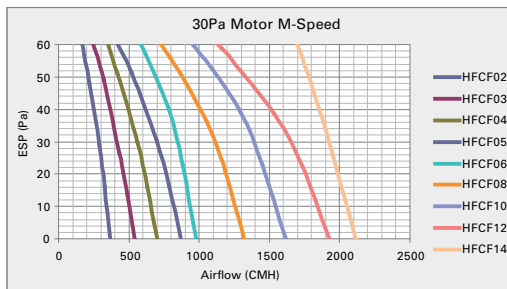
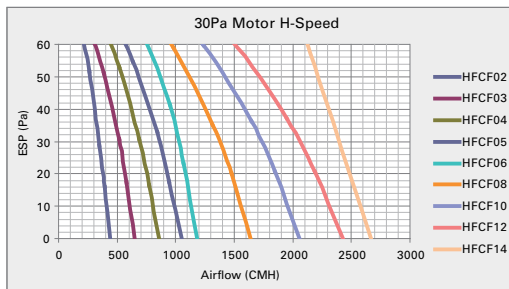
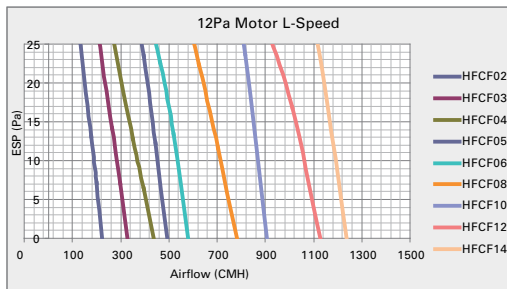
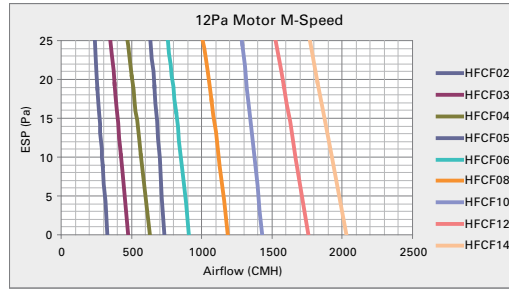
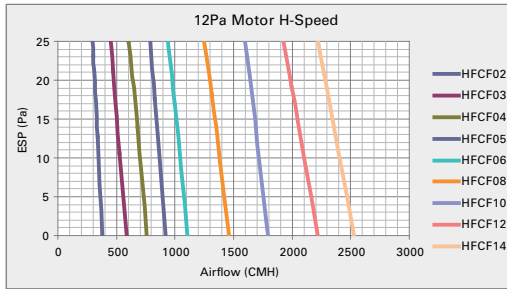
4.Please refer to model number description for more options.

Airflow Curve(12/30/50Pa Motor)

220~240V-50Hz

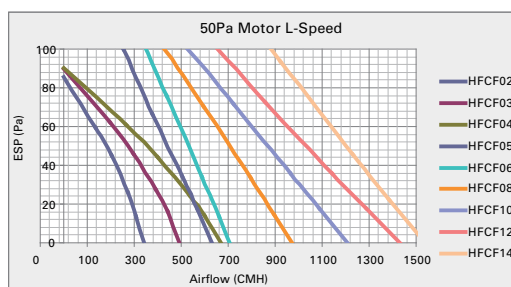
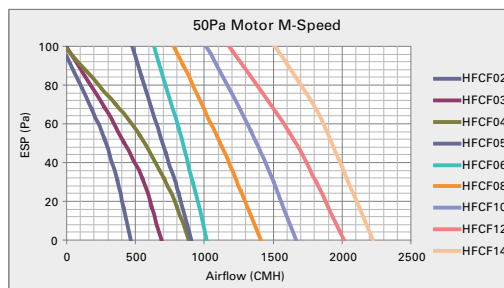
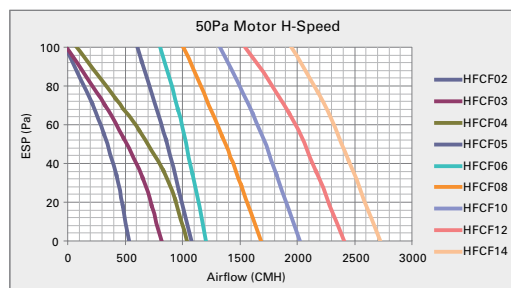
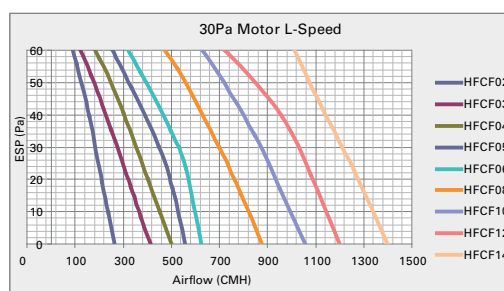
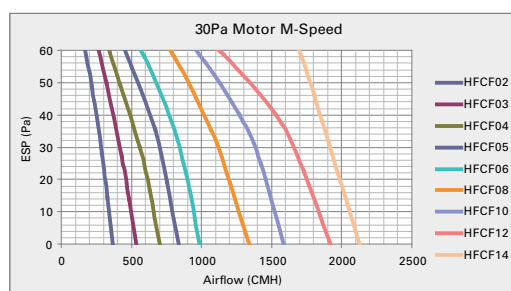
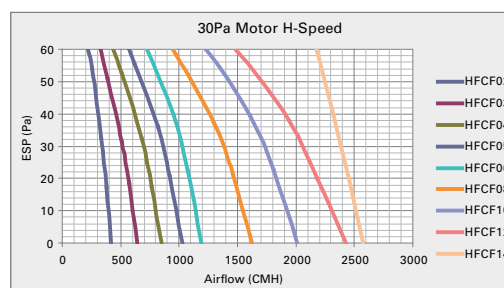
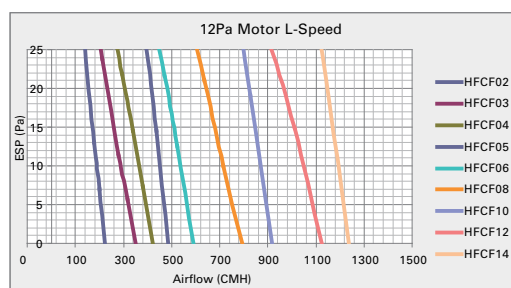
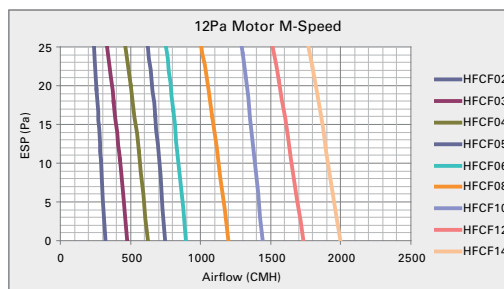
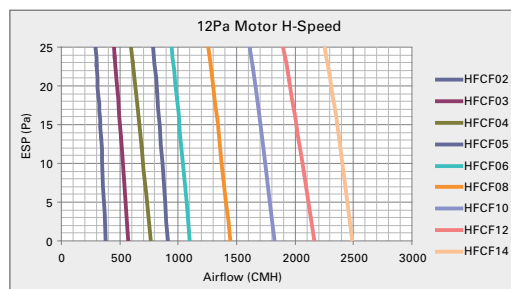


220~240V-60Hz

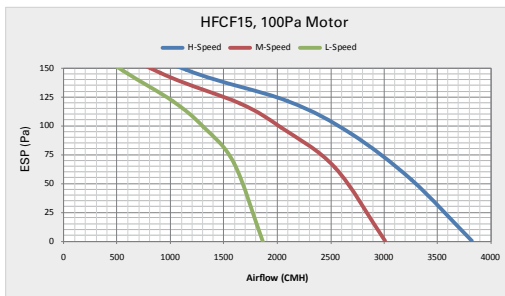
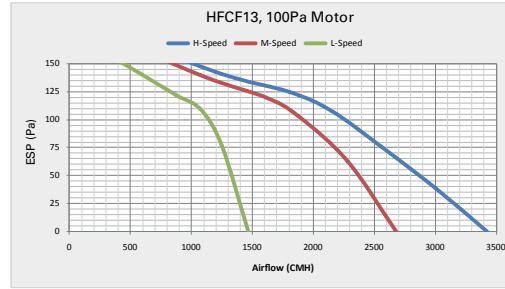
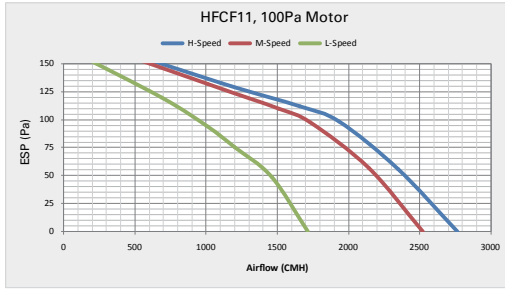


Airflow Curve(12/30/50Pa Motor)

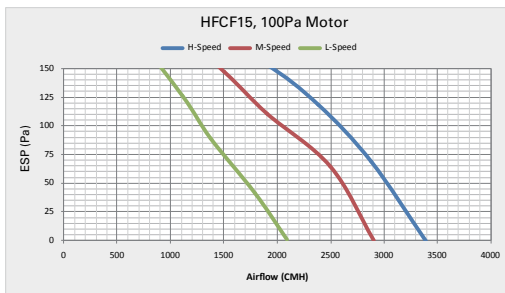
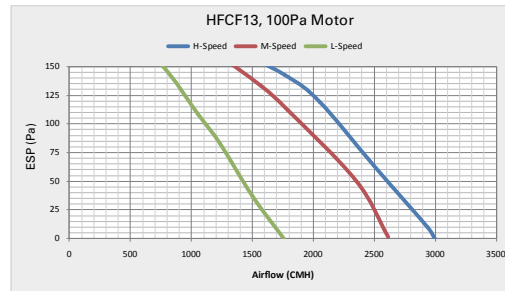
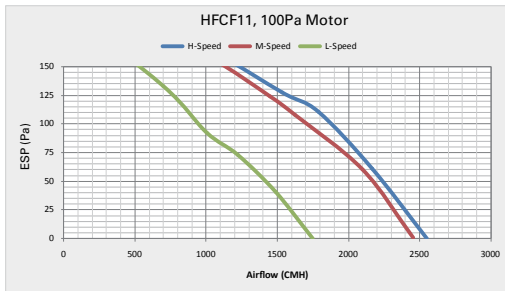
110~127V-60Hz



220~240V-50Hz

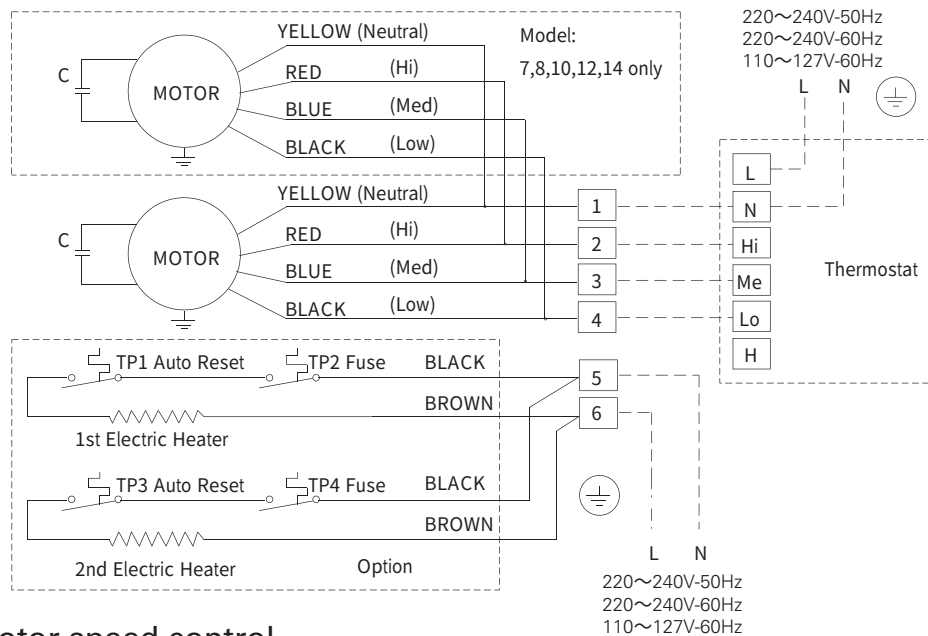


220~240V-60Hz



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.

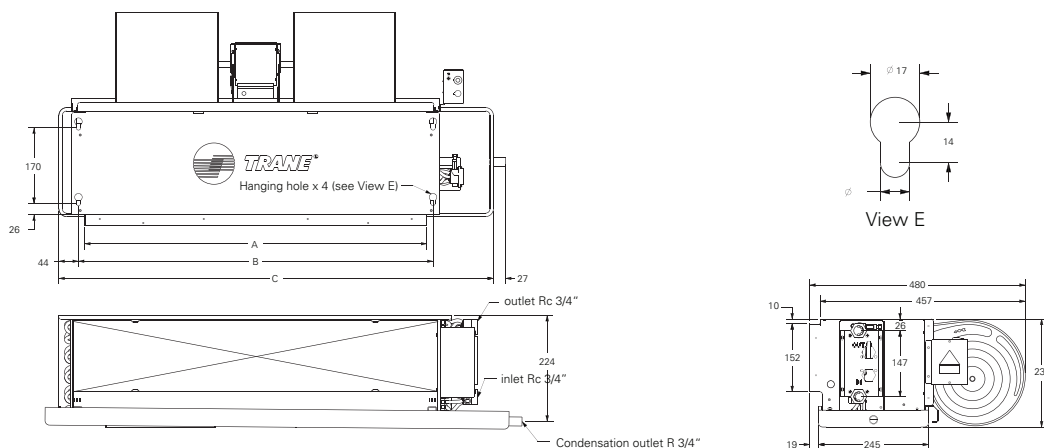
Warning:

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

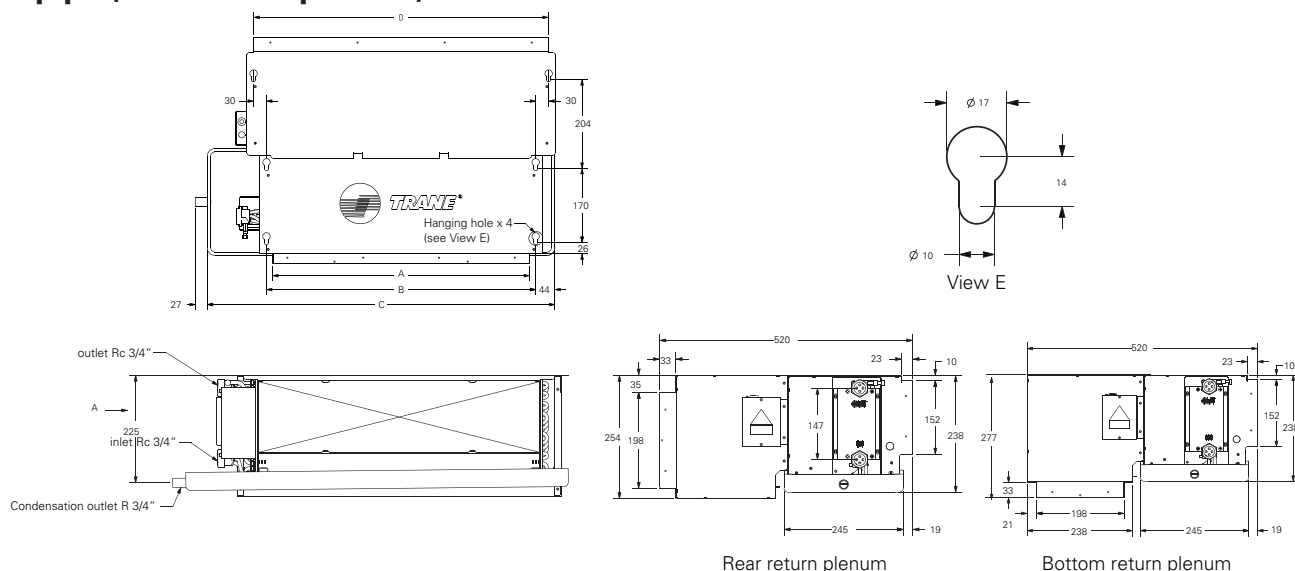
2-pipe (without return plenum)

Unit:mm



2-pipe (with return plenum)

Unit:mm



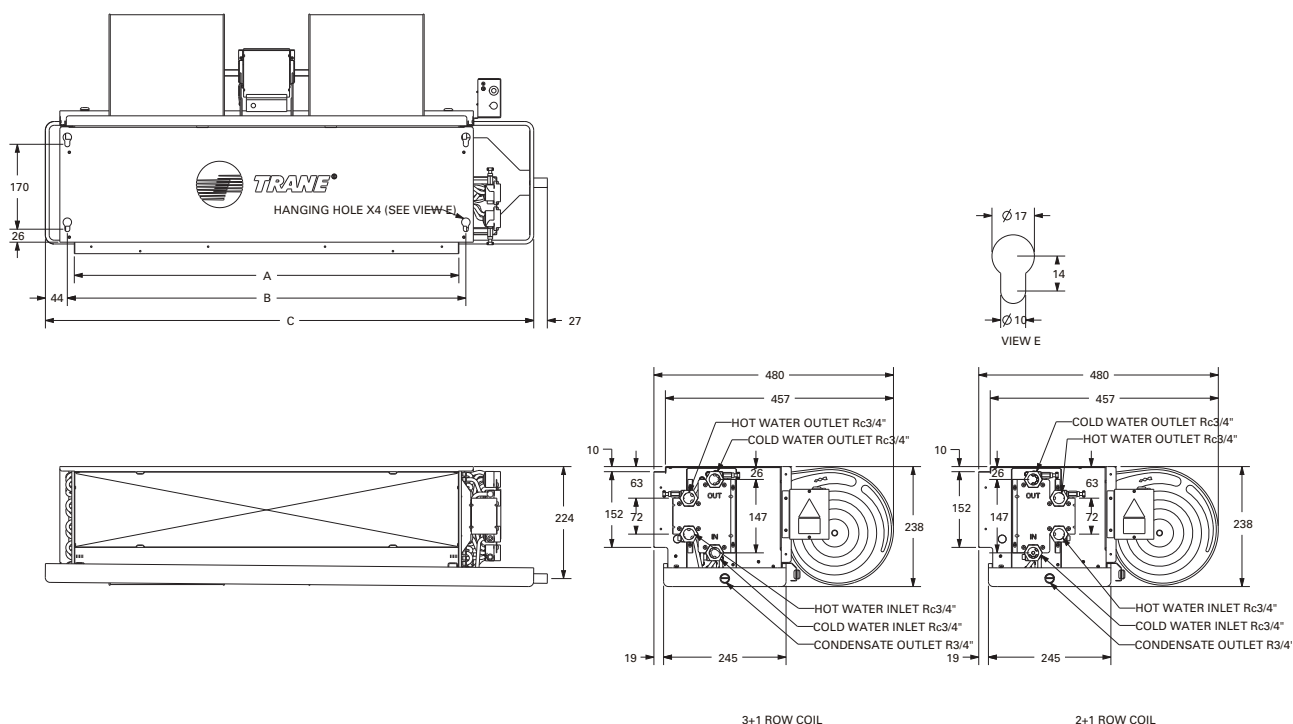
Dimension (mm)	Weight (kg)															
	Without return plenum								With return plenum							
	12Pa				30Pa				50Pa				12Pa			
A B C* D	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row	3 Row	4 Row	2 Row
HFCF02 440 468 648 526	10	11	11	10.5	11	11	10.5	11	11.5	13.5	14	14	13.5	14	14	13.5
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
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
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
HFCF06 970 998 1183 1056	18.5	19	21	19	20	21	19	20	21	23.5	24	25	23.5	24	25	24
HFCF07 1070 1098 1283 1156	24	25	26	24	25	26	24.5	25	26	30	31	32	30	31	32	30
HFCF08 1210 1238 1423 1296	26	27	28	26	27	28	26.5	27	28	32	33	34	32	33	34	32
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	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
HFCF03	590	618	798	676	14	14	14	14.5	14	14.5	17	17	17	17.5
HFCF04	690	718	898	776	15	16	16	16	16	16	18	19	19	19
HFCF05	770	798	978	856	16	17	17	18	17	18	19	20	20	21
HFCF06	970	998	1183	1056	19.5	20	20	21	20	21	22.5	23	23	24
HFCF07	1070	1098	1283	1156	na	26	na	26	na	26	na	29	na	29
HFCF08	1210	1238	1423	1296	27	28	27	28	28	28	30	31	30	31
HFCF10	1330	1358	1543	1416	-	32	-	32	-	32	-	35	-	35
HFCF12	1570	1598	1783	1656	-	35	-	35.5	-	35.5	-	38	-	38.5
HFCF14	1750	1778	1963	1836	-	38	-	38	-	38	-	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.

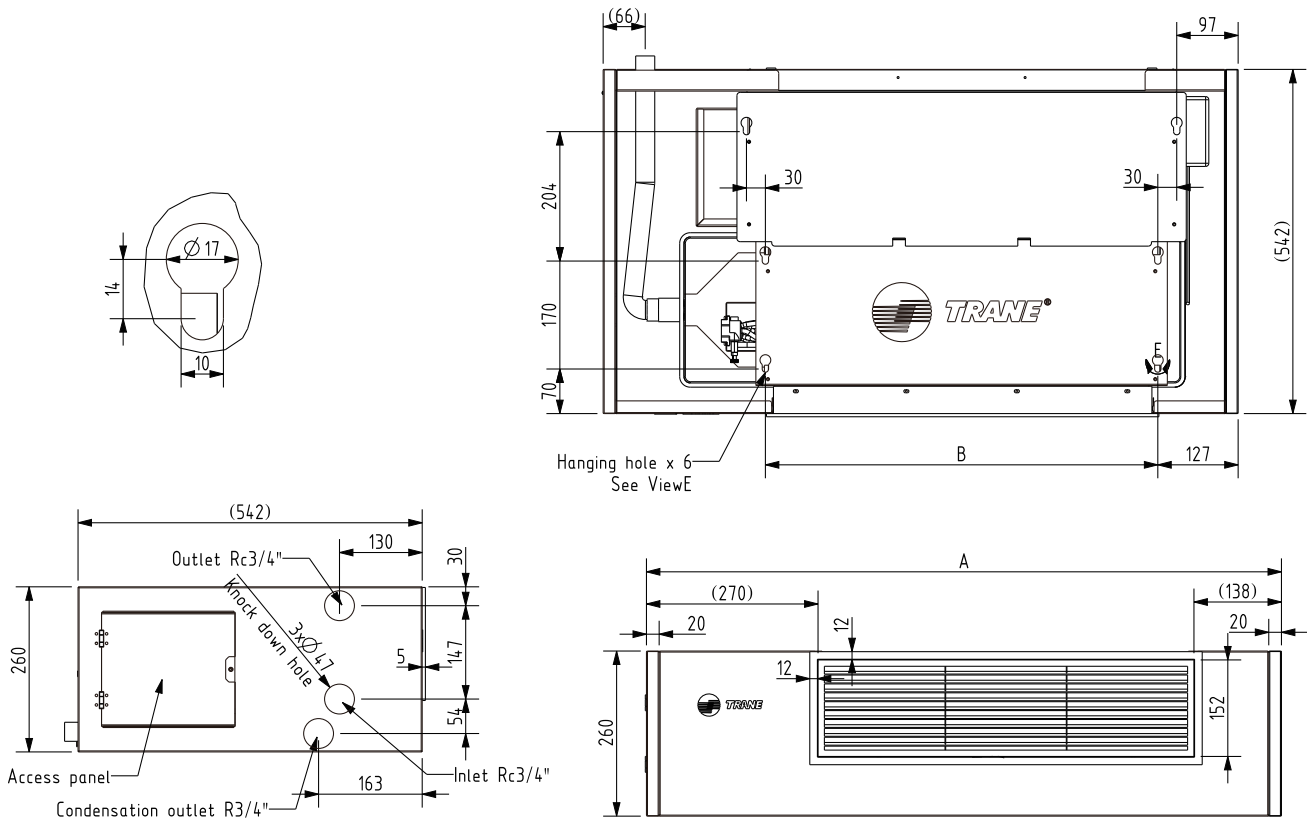
Add 200 to C dimension to get +200mm extended drain pan length.

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.

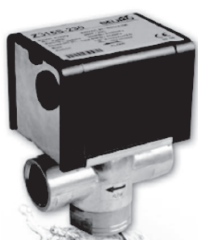
Low Installation Cost

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

Compact Design

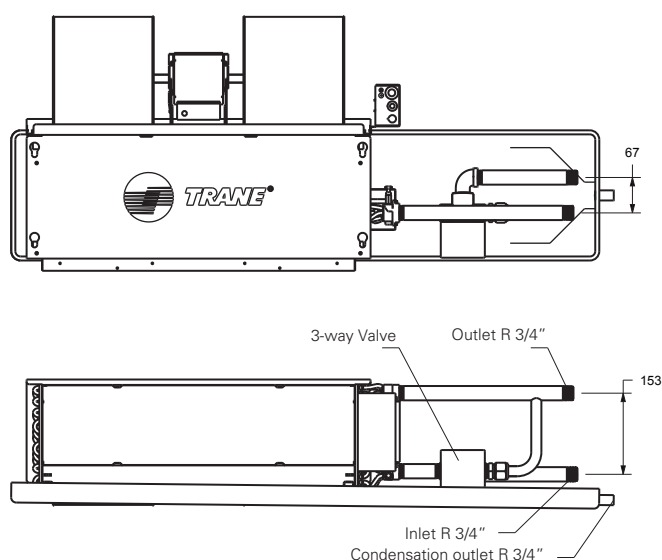
- Extended drain pan up to substantial length for piping connection.

2-way/3-way Valve

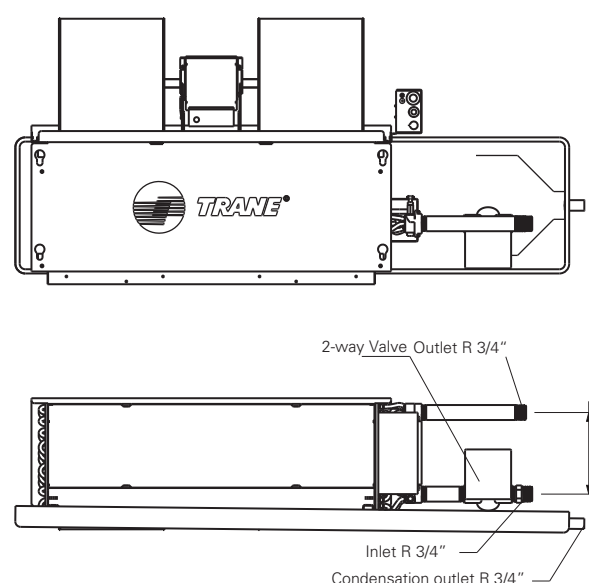


Power Consumption	Nominal Pressure	Close-off Pressure	IP Grade	Power Supply	Kv's	Valve on-off Speed	Pipe connection
6.5W	2.1MPa	344KPa	IP51	220-240V 100-127V	2.2 2.6	4-5s(spring) 13-18s (motor)	DN20 Female Thread

3-way Valve



2-way Valve



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

Trane - by Trane Technologies (NYSE:TT), a global climate innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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Supersedes HFCF-PRC001D-EN (Otc 2020)

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