Technical Sales Guide

ROOFTOP PACKAGED AIR CONDITIONERS

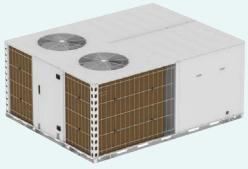
(GC202110-III)

CAPACITY RANGE: 22.0~102.0kW(75100~348000Btu/h)

OPERATION RANGE:COOLING:18~52°C

HEATING:-5~24°C

MODELS LIST

Model	Nominal Capacity (ton)	Refrigerant	Power Supply	Appearance
FRT-H5.5TH/NaA	5.5	R410A	380-415V 3N~ 50/60Hz	
FRT-H6.2TH/NaA	6.2	R410A	380-415V 3N~ 50/60Hz	
FRT-H7.5TH/NaA	7.5	R410A	380-415V 3N~ 50/60Hz	
FRT-H10TH/NaA	10	R410A	380-415V 3N~ 50/60Hz	
FRT-H15TH/NaA	15	R410A	380-415V 3N~ 50Hz	
FRT-H20TH/NaA	20	R410A	380-415V 3N~ 50Hz	
FRT-H25TH/NaA	25	R410A	380-415V 3N~ 50Hz	
FRT-C30TH/NaA	30	R410A	380-415V 3N~ 50Hz	
FRT-H30TC/NaA	30	R410A	380-415V 3N~ 50Hz	

FUNCTION

Description

The Rooftop unit are completely assembled, piped and wired at the factory to provide one-piece shipment and rigging. Each unit is pressurized with a holding charge of refrigerant-410A for storage and shipping. The Rooftop can offer the perfect combination of superior product quality, high operating efficiency and cost efficiency. The compact design, outstanding anti-corrosive cabinet and quiet operation make these units suitable for both light commercial and residential applications. The from dedicated design of each part to the unit assembling, together with complete test, the unit offers reliable operation and com-fort experience. Comprehensive protections can guarantee the system safety and prevent damage of critical components such as compressor under harsh working conditions. All sheet metal parts are constructed of commercial grade galvanized steel. The unit external parts are coated with special paint to ensure anti-corro-sion performance.

Features

3.2.1 High energy efficiency and performance

- DC inverter design

The Rooftop unit meets CB requirements. The compressor and outdoor fan can adjust the operating frequency according to different room loads, and automatically adjust the capacity output to ensure the comfort of the room environment. At the same time, the power consumption of the unit changes along with the capacity output and the power consumption of unit is low in low-load operation. Compared with the fixed-speed unit, its annual power consumption is lower, which is high-efficiency and power-saving.

- DC inverter motor

The outdoor heat exchanger applies DC inverter motor with high back electromotive force. Power input of motor is lower and operating current is smaller, thus the efficiency is greatly improved compared with the AC motor.

- High-efficiency fan blade

New high-efficiency fan blade design adopts CFD simulation technology to optimize the matching of blade type and blade angle. In addition to the special trail edge design, the working area of blade is effectively increased and the air volume is greatly increased.

High reliability

- Excellent grid adaptability

The Rooftop C series adopts anti-grid fluctuations design, performs stably in ultra wide voltage range from 342V to 456V, which is perfectly adapted to the power grid fluctuation during peak hours or other conditions.

- Multiple protection design

The Rooftop unit is designed with high voltage protection, low voltage protection, overcurrent protection, discharge protection, phase sequence protection and other protections. It can effectively protect key components such as compressor and motor in abnormal operation and harsh working conditions, extending the service life of the unit and ensuring safer and more reliable operation.

- Automatic adjustment of throttling

The Rooftop unit adopts throttling of electronic expansion valve, and automatically adjusts the opening degree in throttling according to the system high pressure and discharge temperature. It makes sure that the system parameters are within a reasonable range when the unit operates under all working conditions, to improve the operation reliability and service life of the unit.

- Anti-crossflow design of outdoor fan

The outdoor fan of the Rooftop unit adopts anti-crossflow startup design to solve the problem that the unit cannot start smoothly in the reverse operation under the high wind environment. The anti-wind start-up design allows the unit to fully adapt to the harsh windy environment and start reliably. The outdoor fan runs smoothly, which is safer and more reliable.

Anti-corrosive and dustproof

- Weather fastness fan blade

The fan blades of the condenser fan are directly injection molded with ABS+glass fiber material, which has excellent weather fastness and anti-corrosive performance.

Easy to use

- Non-polarity communication design

The Rooftop unit adopts two-core Non-polarity communication. System anti-electromagnetic interference capability is strong, and the communication distance between the wired controller and the unit can reach 100m. The field wiring does not need to distinguish the positive and negative poles. Meanwhile, conventional communication wire and telephone wire can be adopted, with no need of special shielded communication wire.

- Auxiliary controller

The Rooftop C series unit can be connected to centralized controller. One centralized controller can control up to 36 units, and realize single unit control or group control for multiple units. It can also be used with MODBUS gateway to remotely control the unit, or to be managed with other electrical equipment in the building.

4 PRODUCT DATA

Product Data at Rated Condition

Model		FRT-H5.5TH/NaA	FRT-H6.2TH/NaA
Ton		5.5	6.2
Capacity			
Cooling Capacity	Btu/h	75100	76800
Cooling Capacity	kW	22.0	22.5
Cooling Capacity (T3)	Btu/h	63100	64800
Cooling Capacity (T3)	kW	18.5	19.0
Heating Capacity	Btu/h	88700	90400
Heating Capacity	kW	26.0	26.5
Electrical Data			
Power Supply		380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz
Cooling Power Input	kW	8.5	8.5
Cooling Power Input (T3)	kW	9.5	9.5
Heating Power Input	kW	7.5	7.5
Max. Power Input	kW	10.0	10.0
Max. Current	A	18.0	18.0
Sound			
Sound Pressure Level	dB(A)	66	66
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	5	5
Air Flow			
Air Flow Volume	CFM	1766	1766
Air Flow Volume	m³/h	3000	3000
Pressure			
External Static Pressure	Pa	60	60
External Static Pressure	InWg	0.24	0.24
External Static Pressure Range	Pa	0-180	0-180
External Static Pressure Range	InWg	0-0.72	0-0.72
Dimension			
Outline Dimension(W×D×H)	mm	1450×1120×815	1450×1120×815
Package Dimension(W×D×H)	mm	1463×1133×860	1463×1133×860
Weight			
Net Weight	kg	268	268
Gross Weight	kg	289	289
Loading			
Loading Quantity	20'GP	16	16
Loading Quantity	40'HQ	48	48

Model		FRT-H7.5TH/NaA	FRT-H10TH/NaA
Ton		7.5	10
Capacity			
Cooling Capacity (T1)	Btu/h	95500	116000
Cooling Capacity	kW	28.0	34.0
Cooling Capacity (T3)	Btu/h	75100	98900
Cooling Capacity (T3)	kW	22.0	29.0
Heating Capacity	Btu/h	105800	133100
Heating Capacity	kW	31.0	39.0
Electrical Data			
Power Supply		380-415V 3N~ 50/60Hz	380-415V 3N~ 50/60Hz
Cooling Power Input	kW	9.0	13.5
Cooling Power Input (T3)	kW	9.5	13.3
Heating Power Input	kW	8.0	11.5
Max. Power Input	kW	10.0	15.0
Max. Current	A	18.0	23.0
Sound			
Sound Pressure Level	dB(A)	68	72
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	8.0	10.0
Air Flow			
Air Flow Volume	CFM	2589	3413
Air Flow Volume	m^3/h	4400	5800
Pressure			
External Static Pressure	Pa	80	90
External Static Pressure	InWg	0.32	0.36
External Static Pressure Range	Pa	0-185	0-210
External Static Pressure Range	InWg	0-0.74	0-0.84
Dimension			
Outline Dimension(W×D×H)	mm	1450×1120×1215	1450×1120×1215
Package Dimension(W×D×H)	mm	1463×1133×1260	1463×1133×1260
Weight			
Net Weight	kg	348	350
Gross Weight	kg	368	370
Loading			
Loading Quantity	20'GP	7	7
Loading Quantity	40'HQ	32	32

Model		FRT-H15TH/NaA	FRT-H20TH/NaA
Ton		15	20
Capacity			
Cooling Capacity	Btu/h	165500	204700
Cooling Capacity	kW	48.5	60
Cooling Capacity (T3)	Btu/h	122800	167200
Cooling Capacity (T3)	kW	36.0	49.0
Heating Capacity	Btu/h	189400	242300
Heating Capacity	kW	55.5	71.0
Electrical Data			
Power Supply		380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Cooling Power Input	kW	23.0	28.5
Cooling Power Input (T3)	kW	21.0	28.6
Heating Power Input	kW	16.5	25.0
Max. Power Input	kW	26.0	30.0
Max. Current	A	44.0	51.0
Sound			
Sound Pressure Level	dB(A)	74	75
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	12.0	16.0
Air Flow			
Air Flow Volume	CFM	5592	8829
Air Flow Volume	m^3/h	9500	15000
Pressure			
External Static Pressure	Pa	130	150
External Static Pressure	InWg	0.52	0.60
External Static Pressure Range	Pa	50-200	75-220
External Static Pressure Range	InWg	0.2-0.8	0.3-0.88
Dimension			
Outline Dimension(W×D×H)	mm	2260×1140×1245	2240×1880×1250
Package Dimension(W×D×H)	mm	2283×1163×1290	2258×1898×1300
Weight			
Net Weight	kg	590	820
Gross Weight	kg	618	870
Loading			
Loading Quantity	20'GP	4	3
Loading Quantity	40'HQ	20	12

Model		FRT-H25TH/NaA	FRT-C30TH/NaA
Ton		25	30
Capacity			
Cooling Capacity	Btu/h	286600	341200
Cooling Capacity	kW	84	100.0
Cooling Capacity (T3)	Btu/h	228600	273000
Cooling Capacity (T3)	kW	67.0	80.0
Heating Capacity	Btu/h	324100	/
Heating Capacity	kW	95.0	/
Electrical Data			
Power Supply		380-415V 3N~ 50Hz	380-415V 3N~ 50Hz
Cooling Power Input	kW	38.0	34.0
Cooling Power Input (T3)	kW	38.0	34.3
Heating Power Input	kW	30.5	/
Max. Power Input	kW	43.0	43.0
Max. Current	A	73.0	73.0
Sound			
Sound Pressure Level	dB(A)	76	76
Refrigerant			
Refrigerant Type	-	R410A	R410A
Refrigerant Weight	kg	25.0	15.0+15.0
Air Flow			
Air Flow Volume	CFM	9712	10889
Air Flow Volume	m³/h	16500	18500
Pressure			
External Static Pressure	Pa	200	250
External Static Pressure	InWg	0.8	1
External Static Pressure Range	Pa	100-250	125-300
External Static Pressure Range	InWg	0.40-1.00	0.50-1.20
Dimension			
Outline Dimension(W×D×H)	mm	2880×2240×1270	3800×2240×1250
Package Dimension(W×D×H)	mm	2893×2253×1290	3810×2250×1283
Weight			
Net Weight	kg	1180	1500
Gross Weight	kg	1224	1550
Loading			
Loading Quantity	20'GP	1	1
Loading Quantity	40'HQ	8	6

Model		FRT-H30TC/NaA
Ton		30
Capacity		
Cooling Capacity	Btu/h	348000
Cooling Capacity	kW	102
Cooling Capacity (T3)	Btu/h	259300
Cooling Capacity (T3)	kW	76
Heating Capacity	Btu/h	412900
Heating Capacity	kW	121
Electrical Data		
Power Supply		380-415V 3N~ 50Hz

Model		FRT-H30TC/NaA
Ton		30
Capacity		
Cooling Power Input	kW	43
Cooling Power Input (T3)	kW	46
Heating Power Input	kW	38
Max. Power Input	kW	47
Max. Current	A	80.0
Sound		
Sound Pressure Level	dB(A)	77
Refrigerant		
Refrigerant Type	-	R410A
Refrigerant Weight	kg	14.0+14.0
Air Flow		
Air Flow Volume	CFM	9710
Air Flow Volume	m³/h	16500
Pressure		
External Static Pressure	Pa	125
External Static Pressure	InWg	0.5
External Static Pressure Range	Pa	125~310
External Static Pressure Range	InWg	0.50~1.24
Dimension		
Outline Dimension(W×D×H)	mm	2850×2240×1240
Package Dimension(W×D×H)	mm	2863×2253×1285
Weight		
Net Weight	kg	1009
Gross Weight	kg	1070
Loading		
Loading Quantity	20'GP	2
Loading Quantity	40'HQ	8

Notice:

(1) The cooling capacity stated above is measured under following conditions.
   a) Indoor Conditions: 27°C (80.6 °F) DB/19°C (66.2 °F)WB;
   b) Outdoor Conditions: 35°C (95°F) DB/24°C (75.2°F)WB;

(2) The T3 cooling capacity stated above is measured under following conditions.
   a) Indoor Conditions: 29°C (84.2 °F) DB/19°C (66.2 °F)WB;
   b) Outdoor Conditions: 46°C (114.8°F) DB/24°C (75.2°F)WB;

(3) The Heating capacity stated above is measured under following conditions.
   a) Indoor Conditions: 20°C (68 °F) DB/15°C (59 °F)WB;
   b) Outdoor Conditions: 7°C (44.6°F) DB/6°C (42.8°F)WB;

(4) The air volume is measured at the relevant standard external static pressure.

(5) The technical parameters are changed along with the products improvement; please refer to the name plate of the unit for actual data.

Operating Temperature

Mode	Range of Outdoor Temperature℃（°F）
Cooling	18(64.4) ～ 52(125.6)
Heating	-5(23) ～ 24(75.2)

CAPACITY CORRECTION

Model：FRT-H5.5TH/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (˚F)														
						17℃ (62.6 ˚F)					19℃ (66.2 ˚F)					22℃ (71.6 ˚F)				
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	˚F	m^3/hr	cfm	℃	˚F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	3000	1766	23	73.4	20.87	71	15.65	53	6.89	23.72	81	16.60	57	7.21	24.43	83	13.19	45	6.94
				24	75.2	21.08	72	16.87	58	6.96	23.96	82	17.49	60	7.29	24.68	84	14.56	50	7.01
				27	80.6	21.30	73	17.25	59	6.86	24.20	83	18.39	63	7.66	24.93	85	16.20	55	7.03
				31	87.8	21.51	73	18.07	62	6.65	24.44	83	19.31	66	7.26	25.18	86	17.62	60	7.05
35	95	3000	1766	23	73.4	18.97	65	14.23	49	7.97	21.56	74	15.09	51	8.41	22.21	76	11.99	41	8.02
				24	75.2	19.17	65	15.33	52	8.05	21.78	74	15.90	54	8.50	22.43	77	13.24	45	8.10
				27	80.6	19.36	66	15.68	54	7.87	22.00	75	16.72	57	8.50	22.66	77	14.73	50	8.11
				31	87.8	19.55	67	16.43	56	7.63	22.22	76	17.55	60	8.42	22.89	78	16.02	55	8.11
46	114.8	3000	1766	23	73.4	15.79	54	11.85	40	8.82	17.95	61	12.56	43	9.31	18.49	63	9.98	34	8.87
				24	75.2	15.96	54	12.76	44	8.91	18.13	62	13.24	45	9.41	18.68	64	11.02	38	8.96
				27	80.6	16.12	55	13.05	45	8.71	18.32	62	13.92	47	9.50	18.86	64	12.26	42	8.97
				31	87.8	16.44	56	13.81	47	8.53	18.68	64	14.76	50	9.41	19.24	66	13.47	46	9.07
52	125.6	3000	1766	23	73.4	11.07	38	8.30	28	8.73	12.57	43	8.80	30	9.22	12.95	44	6.99	24	8.78
				24	75.2	11.18	38	8.94	31	8.82	12.70	43	9.27	32	9.31	13.08	45	7.72	26	8.87
				27	80.6	11.29	39	9.15	31	8.62	12.83	44	9.75	33	9.31	13.22	45	8.59	29	8.88
				31	87.8	11.40	39	9.58	33	8.36	12.96	44	10.24	35	9.22	13.35	46	9.34	32	8.89

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ˚F (˚C)											
						60.8 ˚F (16˚C)				68 ˚F (20˚C)				75.2 ˚F (24˚C)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
˚C	˚F	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	3000	1766	60	0.24	29.17	100	7.63	3.82	28.60	98	7.95	3.60	27.74	95	8.27	3.36
6	42.8					26.52	90	7.20	3.68	26.00	89	7.50	3.47	25.22	86	7.80	3.23
1	33.8					17.24	59	6.70	2.57	16.90	58	6.98	2.42	16.39	56	7.25	2.26
-6	-21.2					14.85	51	5.98	2.49	14.56	50	6.23	2.34	14.12	48	6.47	2.18
-9.5	-14.9					13.26	45	5.40	2.46	13.00	44	5.63	2.31	12.61	43	5.85	2.16

Model：FRT-H6.2TH/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (℉)														
						17℃ (62.6 ℉)					19℃ (66.2 ℉)					22℃ (71.6 ℉)				
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	℉	m^3/hr	cfm	℃	℉	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	3000	1766	23	73.4	21.34	73	16.01	55	6.89	24.26	83	16.98	58	7.21	24.98	85	13.49	46	6.94
				24	75.2	21.56	74	17.25	59	6.96	24.50	84	17.89	61	7.29	25.24	86	14.89	51	7.01
				27	80.6	21.78	74	17.64	60	6.86	24.75	84	18.81	64	7.66	25.49	87	16.57	57	7.03
				31	87.8	22.00	75	18.48	63	6.65	25.00	85	19.75	67	7.26	25.75	88	18.02	61	7.05
35	95	3000	1766	23	73.4	19.40	66	14.55	50	7.97	22.05	75	15.44	53	8.41	22.71	77	12.26	42	8.02
				24	75.2	19.60	67	15.68	54	8.05	22.28	76	16.26	55	8.50	22.94	78	13.54	46	8.10
				27	80.6	19.80	68	16.04	55	7.87	22.50	77	17.10	58	8.50	23.18	79	15.06	51	8.11
				31	87.8	20.00	68	16.80	57	7.63	22.73	78	17.95	61	8.42	23.41	80	16.38	56	8.11
46	114.8	3000	1766	23	73.4	16.22	55	12.17	42	8.82	18.43	63	12.90	44	9.31	18.99	65	10.25	35	8.87
				24	75.2	16.39	56	13.11	45	8.91	18.62	64	13.59	46	9.41	19.18	65	11.32	39	8.96
				27	80.6	16.55	56	13.41	46	8.71	18.81	64	14.30	49	9.50	19.37	66	12.59	43	8.97
				31	87.8	16.88	58	14.18	48	8.53	19.19	65	15.16	52	9.41	19.76	67	13.83	47	9.07
52	125.6	3000	1766	23	73.4	11.37	39	8.52	29	8.73	12.91	44	9.04	31	9.22	13.30	45	7.18	25	8.78
				24	75.2	11.48	39	9.18	31	8.82	13.05	45	9.52	32	9.31	13.44	46	7.93	27	8.87
				27	80.6	11.60	40	9.39	32	8.62	13.18	45	10.02	34	9.31	13.57	46	8.82	30	8.88
				31	87.8	11.71	40	9.84	34	8.36	13.31	45	10.52	36	9.22	13.71	47	9.60	33	8.89

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ℉ (℃)											
						60.8 ℉ (16℃)				68 ℉ (20℃)				75.2。F(24℃)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
℃	℉	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	3000	1766	60	0.24	29.73	101	7.63	3.90	29.15	99	7.95	3.67	28.28	96	8.27	3.42
6	42.8					27.03	92	7.20	3.75	26.50	90	7.50	3.53	25.71	88	7.80	3.30
1	33.8					17.57	60	6.70	2.62	17.23	59	6.98	2.47	16.71	57	7.25	2.30
-6	-21.2					15.14	52	5.98	2.53	14.84	51	6.23	2.38	14.39	49	6.47	2.22
-9.5	-14.9					13.52	46	5.40	2.50	13.25	45	5.63	2.36	12.85	44	5.85	2.20

Model：FRT-H7.5TH/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (℉)														
						17℃ (62.6 ℉)					19℃ (66.2 ℉)					22℃ (71.6 ℉)				
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	℉	m^3/hr	cfm	℃	℉	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	4400	2590	23	73.4	26.56	91	19.92	68	7.30	30.18	103	21.13	72	7.64	31.09	106	16.79	57	7.35
				24	75.2	26.83	92	21.47	73	7.37	30.49	104	22.26	76	7.72	31.41	107	18.53	63	7.42
				27	80.6	27.10	92	21.95	75	7.26	30.80	105	23.41	80	8.11	31.72	108	20.62	70	7.44
				31	87.8	27.38	93	23.00	78	7.04	31.11	106	24.58	84	7.69	32.04	109	22.43	77	7.46
35	95	4400	2590	23	73.4	24.15	82	18.11	62	8.44	27.44	94	19.21	66	8.91	28.26	96	15.26	52	8.49
				24	75.2	24.39	83	19.51	67	8.52	27.72	95	20.24	69	9.00	28.55	97	16.85	57	8.58
				27	80.6	24.64	84	19.96	68	8.34	28.00	96	21.28	73	9.00	28.84	98	18.75	64	8.58
				31	87.8	24.89	85	20.90	71	8.08	28.28	96	22.34	76	8.91	29.13	99	20.39	70	8.59
46	114.8	4400	2590	23	73.4	18.78	64	14.09	48	8.82	21.34	73	14.94	51	9.31	21.98	75	11.87	41	8.87
				24	75.2	18.97	65	15.18	52	8.91	21.56	74	15.74	54	9.41	22.21	76	13.10	45	8.96
				27	80.6	19.17	65	15.52	53	8.71	21.78	74	16.55	56	9.50	22.43	77	14.58	50	8.97
				31	87.8	19.55	67	16.42	56	8.53	22.22	76	17.55	60	9.41	22.88	78	16.02	55	9.07
52	125.6	4400	2590	23	73.4	13.16	45	9.87	34	8.73	14.95	51	10.47	36	9.22	15.40	53	8.32	28	8.78
				24	75.2	13.29	45	10.64	36	8.82	15.11	52	11.03	38	9.31	15.56	53	9.18	31	8.87
				27	80.6	13.43	46	10.88	37	8.62	15.26	52	11.60	40	9.31	15.72	54	10.22	35	8.88
				31	87.8	13.56	46	11.39	39	8.36	15.41	53	12.18	42	9.22	15.87	54	11.11	38	8.89

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ℉ (℃)											
						60.8 ℉ (16℃)				68 ℉ (20℃)				75.2 ℉ (24℃)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
℃	℉	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	4400	2590	80	0.32	34.78	119	8.14	4.27	34.10	116	8.48	4.02	33.08	113	8.82	3.75
6	42.8					31.62	108	7.68	4.12	31.00	106	8.00	3.88	30.07	103	8.32	3.61
1	33.8					20.55	70	7.14	2.88	20.15	69	7.44	2.71	19.55	67	7.74	2.53
-6	-21.2					17.71	60	6.37	2.78	17.36	59	6.64	2.61	16.84	57	6.91	2.44
-9.5	-14.9					15.81	54	5.76	2.74	15.50	53	6.00	2.58	15.04	51	6.24	2.41

Model: FRT-H10TH/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (˚F)													
						17℃ (62.6 ˚F)					19℃ (66.2 ˚F)					22℃ (71.6 ˚F)			
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	˚F	m^3/hr	cfm	℃	˚F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	5800	3413	23	73.4	32.25	110	24.19	83	10.95	36.65	125	25.66	88	11.46	37.75	129	20.39	70	11.02
				24	75.2	32.58	111	26.07	89	11.06	37.03	126	27.03	92	11.58	38.14	130	22.50	77	11.13
				27	80.6	32.91	112	26.66	91	10.89	37.40	128	28.42	97	12.17	38.52	131	25.04	85	11.16
				31	87.8	33.24	113	27.92	95	10.56	37.77	129	29.84	102	11.54	38.91	133	27.24	93	11.19
35	95	5800	3413	23	73.4	29.32	100	21.99	75	12.65	33.32	114	23.32	80	13.36	34.32	117	18.53	63	12.74
				24	75.2	29.62	101	23.70	81	12.78	33.66	115	24.57	84	13.50	34.67	118	20.46	70	12.87
				27	80.6	29.92	102	24.24	83	12.51	34.00	116	25.84	88	13.50	35.02	119	22.76	78	12.88
				31	87.8	30.22	103	25.38	87	12.12	34.34	117	27.13	93	13.37	35.37	121	24.76	84	12.88
46	114.8	5800	3413	23	73.4	24.76	84	18.57	63	12.34	28.14	96	19.70	67	13.03	28.98	99	15.65	53	12.42
				24	75.2	25.01	85	20.01	68	12.47	28.42	97	20.75	71	13.17	29.28	100	17.27	59	12.55
				27	80.6	25.26	86	20.46	70	12.20	28.71	98	21.82	74	13.30	29.57	101	19.22	66	12.56
				31	87.8	25.77	88	21.65	74	11.94	29.28	100	23.13	79	13.17	30.16	103	21.11	72	12.69
52	125.6	5800	3413	23	73.4	17.35	59	13.01	44	12.22	19.71	67	13.80	47	12.90	20.30	69	10.96	37	12.30
				24	75.2	17.52	60	14.02	48	12.34	19.91	68	14.54	50	13.03	20.51	70	12.10	41	12.42
				27	80.6	17.70	60	14.34	49	12.07	20.11	69	15.29	52	13.03	20.72	71	13.47	46	12.43
				31	87.8	17.88	61	15.02	51	11.70	20.32	69	16.05	55	12.91	20.93	71	14.65	50	12.44

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ˚F (℃)											
						60.8 ˚F (16℃)				68 ˚F (20℃)				75.2 ˚F (24℃)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
℃	˚F	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	5800	3414	90	0.36	43.76	149	11.70	3.74	42.90	146	12.19	3.52	41.61	142	12.68	3.28
6	42.8					39.78	136	11.04	3.60	39.00	133	11.50	3.39	37.83	129	11.96	3.16
1	33.8					25.86	88	10.27	2.52	25.35	86	10.70	2.37	24.59	84	11.12	2.21
-6	-21.2					22.28	76	9.16	2.43	21.84	75	9.55	2.29	21.18	72	9.93	2.13
-9.5	-14.9					19.89	68	8.28	2.40	19.50	67	8.63	2.26	18.92	65	8.97	2.11

Model：FRT-H15TH/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (℉)														
						17℃ (62.6 ℉)					19℃ (66.2 ℉)					22℃ (71.6 ℉)				
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	℉	m^3/hr	cfm	℃	℉	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	9500	5592	23	73.4	46.01	157	34.51	118	18.65	52.28	178	36.60	125	19.52	53.85	184	29.08	99	18.78
				24	75.2	46.48	159	37.18	127	18.84	52.82	180	38.56	132	19.72	54.40	186	32.10	110	18.97
				27	80.6	46.95	160	38.03	130	18.55	53.35	182	40.55	138	20.74	54.95	187	35.72	122	19.02
				31	87.8	47.42	162	39.83	136	17.99	53.88	184	42.57	145	19.66	55.50	189	38.85	133	19.07
35	95	9500	5592	23	73.4	41.83	143	31.37	107	21.56	47.53	162	33.27	114	22.77	48.96	167	26.44	90	21.70
				24	75.2	42.25	144	33.80	115	21.78	48.02	164	35.05	120	23.00	49.46	169	29.18	100	21.92
				27	80.6	42.68	146	34.57	118	21.31	48.50	165	36.86	126	23.00	49.96	170	32.47	111	21.94
				31	87.8	43.11	147	36.21	124	20.65	48.99	167	38.70	132	22.77	50.45	172	35.32	121	21.95
46	114.8	9500	5592	23	73.4	30.74	105	23.05	79	19.49	34.93	119	24.45	83	20.58	35.98	123	19.43	66	19.61
				24	75.2	31.05	106	24.84	85	19.69	35.28	120	25.76	88	20.79	36.34	124	21.44	73	19.81
				27	80.6	31.36	107	25.40	87	19.26	35.64	122	27.09	92	21.00	36.71	125	23.86	81	19.83
				31	87.8	31.99	109	26.87	92	18.85	36.35	124	28.72	98	20.79	37.44	128	26.21	89	20.04
52	125.6	9500	5592	23	73.4	21.53	73	16.15	55	19.29	24.47	83	17.13	58	20.37	25.20	86	13.61	46	19.41
				24	75.2	21.75	74	17.40	59	19.49	24.72	84	18.05	62	20.58	25.46	87	15.02	51	19.61
				27	80.6	21.97	75	17.80	61	19.06	24.97	85	18.98	65	20.58	25.72	88	16.72	57	19.63
				31	87.8	22.19	76	18.64	64	18.48	25.22	86	19.92	68	20.38	25.98	89	18.18	62	19.64

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ℉ (℃)											
						60.8 ℉ (16℃)				68 ℉ (20℃)				75.2 ℉ (24℃)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
℃	℉	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	9500	5592	130	0.52	62.27	212	16.79	3.71	61.05	208	17.49	3.49	59.22	202	18.19	3.26
6	42.8					56.61	193	15.84	3.57	55.50	189	16.50	3.36	53.84	184	17.16	3.14
1	33.8					36.80	126	14.73	2.50	36.08	123	15.35	2.35	34.99	119	15.96	2.19
-6	-21.2					31.70	108	13.15	2.41	31.08	106	13.70	2.27	30.15	103	14.24	2.12
-9.5	-14.9					28.31	97	11.88	2.38	27.75	95	12.38	2.24	26.92	92	12.87	2.09

Model：FRT-H20TH/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (℉)														
						17℃ (62.6 ℉)					19℃ (66.2 ℉)					22℃ (71.6 ℉)				
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	℉	m^3/hr	cfm	℃	℉	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	15000	8829	23	73.4	56.92	194	42.69	146	23.11	64.68	221	45.28	154	24.19	66.62	227	35.98	123	23.27
				24	75.2	57.50	196	46.00	157	23.34	65.34	223	47.70	163	24.44	67.30	230	39.71	135	23.51
				27	80.6	58.08	198	47.04	161	22.99	66.00	225	50.16	171	25.70	67.98	232	44.19	151	23.57
				31	87.8	58.66	200	49.28	168	22.29	66.66	227	52.66	180	24.36	68.66	234	48.06	164	23.63
35	95	15000	8829	23	73.4	51.74	177	38.81	132	26.72	58.80	201	41.16	140	28.21	60.56	207	32.70	112	26.89
				24	75.2	52.27	178	41.82	143	26.99	59.40	203	43.36	148	28.50	61.18	209	36.10	123	27.16
				27	80.6	52.80	180	42.77	146	26.40	60.00	205	45.60	156	28.50	61.80	211	40.17	137	27.18
				31	87.8	53.33	182	44.80	153	25.59	60.60	207	47.87	163	28.22	62.42	213	43.69	149	27.20
46	114.8	15000	8829	23	73.4	41.84	143	31.38	107	26.54	47.54	162	33.28	114	28.03	48.97	167	26.44	90	26.71
				24	75.2	42.26	144	33.81	115	26.81	48.02	164	35.06	120	28.31	49.47	169	29.18	100	26.98
				27	80.6	42.69	146	34.58	118	26.23	48.51	166	36.87	126	28.60	49.97	170	32.48	111	27.00
				31	87.8	43.54	149	36.58	125	25.67	49.48	169	39.09	133	28.31	50.96	174	35.68	122	27.29
52	125.6	15000	8829	23	73.4	29.31	100	21.98	75	26.27	33.31	114	23.31	80	27.74	34.31	117	18.53	63	26.44
				24	75.2	29.61	101	23.69	81	26.54	33.65	115	24.56	84	28.03	34.66	118	20.45	70	26.71
				27	80.6	29.91	102	24.23	83	25.96	33.99	116	25.83	88	28.03	35.01	119	22.75	78	26.73
				31	87.8	30.21	103	25.37	87	25.16	34.33	117	27.12	93	27.75	35.36	121	24.75	84	26.75

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ℉ (℃)											
						60.8 ℉ (16℃)				68 ℉ (20℃)				75.2 ℉ (24℃)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
℃	℉	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	15000	8829	150	0.6	79.66	272	25.44	3.13	78.10	266	26.50	2.95	75.76	258	27.56	2.75
6	42.8					72.42	247	24.00	3.02	71.00	242	25.00	2.84	68.87	235	26.00	2.65
1	33.8					47.07	161	22.32	2.11	46.15	157	23.25	1.98	44.77	153	24.18	1.85
-6	-21.2					40.56	138	19.92	2.04	39.76	136	20.75	1.92	38.57	132	21.58	1.79
-9.5	-14.9					36.21	124	18.00	2.01	35.50	121	18.75	1.89	34.44	117	19.50	1.77

Model：FRT-H25TH/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (˚F)													
						17℃ (62.6 ˚F)					19℃ (66.2 ˚F)					22℃ (71.6 ˚F)			
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	˚F	m^3/hr	cfm	℃	˚F	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	16500	9712	23	73.4	79.69	272	59.76	204	30.81	90.55	309	63.39	216	32.26	93.27	318	50.37	172	31.02
				24	75.2	80.50	275	64.40	220	31.12	91.48	312	66.78	228	32.58	94.22	321	55.59	190	31.34
				27	80.6	81.31	277	65.86	225	30.65	92.40	315	70.22	240	34.26	95.17	325	61.86	211	31.43
				31	87.8	82.13	280	68.99	235	29.72	93.32	318	73.73	252	32.48	96.12	328	67.29	230	31.51
35	95	16500	9712	23	73.4	72.44	247	54.33	185	35.62	82.32	281	57.62	197	37.62	84.79	289	45.79	156	35.85
				24	75.2	73.18	250	58.54	200	35.98	83.16	284	60.71	207	38.00	85.65	292	50.54	172	36.21
				27	80.6	73.92	252	59.88	204	35.20	84.00	287	63.84	218	38.00	86.52	295	56.24	192	36.24
				31	87.8	74.66	255	62.71	214	34.12	84.84	289	67.02	229	37.63	87.39	298	61.17	209	36.27
46	114.8	16500	9712	23	73.4	57.20	195	42.90	146	35.26	65.00	222	45.50	155	37.24	66.95	228	36.15	123	35.49
				24	75.2	57.79	197	46.23	158	35.62	65.67	224	47.94	164	37.62	67.64	231	39.91	136	35.85
				27	80.6	58.37	199	47.28	161	34.85	66.33	226	50.41	172	38.00	68.32	233	44.41	152	35.88
				31	87.8	59.54	203	50.01	171	34.11	67.66	231	53.45	182	37.62	69.69	238	48.78	166	36.26
52	125.6	16500	9712	23	73.4	40.08	137	30.06	103	34.91	45.54	155	31.88	109	36.86	46.91	160	25.33	86	35.13
				24	75.2	40.49	138	32.39	111	35.26	46.01	157	33.58	115	37.24	47.39	162	27.96	95	35.49
				27	80.6	40.89	140	33.12	113	34.50	46.47	159	35.32	121	37.24	47.87	163	31.11	106	35.52
				31	87.8	41.30	141	34.70	118	33.43	46.94	160	37.08	127	36.87	48.34	165	33.84	115	35.54

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ˚F (℃)											
						60.8 ˚F (16℃)				68 ˚F (20℃)				75.2 ˚F (24℃)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
℃	˚F	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	16500	9712	200	0.8	106.59	364	31.04	3.43	104.50	357	32.33	3.23	101.37	346	33.62	3.01
6	42.8					96.90	331	29.28	3.31	95.00	324	30.50	3.11	92.15	314	31.72	2.91
1	33.8					62.99	215	27.23	2.31	61.75	211	28.37	2.18	59.90	204	29.50	2.03
-6	-21.2					54.26	185	24.30	2.23	53.20	182	25.32	2.10	51.60	176	26.33	1.96
-9.5	-14.9					48.45	165	21.96	2.21	47.50	162	22.88	2.08	46.08	157	23.79	1.94

Model: FRT-H30TC/NaA

Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (℉)														
						17℃ (62.6 ℉)					19℃ (66.2 ℉)					22℃ (71.6 ℉)				
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	℉	m^3/hr	cfm	℃	℉	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	16500	9712	23	73.4	96.76	330	72.57	248	34.86	109.9	375	76.97	263	36.50	113.2	386	61.16	209	35.11
				24	75.2	97.75	334	78.20	267	35.22	111.0	379	81.09	277	36.87	114.4	390	67.50	230	35.46
				27	80.6	98.74	337	79.98	273	34.69	112.2	383	85.27	291	38.77	115.5	394	75.12	256	35.56
				31	87.8	99.72	340	83.77	286	33.63	113.3	387	89.52	305	36.75	116.7	398	81.71	279	35.66
35	95	16500	9712	23	73.4	87.96	300	65.97	225	40.31	99.96	341	69.97	239	42.57	102.9	351	55.60	190	40.56
				24	75.2	88.86	303	71.09	243	40.72	100.9	345	73.72	252	43.00	104.0	355	61.37	209	40.98
				27	80.6	89.76	306	72.71	248	39.83	102.0	348	77.52	264	43.00	105.0	358	68.29	233	41.01
				31	87.8	90.66	309	76.15	260	38.60	103.0	352	81.39	278	42.58	106.1	362	74.28	253	41.04
46	115	16500	9712	23	73.4	70.01	239	52.51	179	37.12	79.56	271	55.69	190	39.20	81.94	280	44.25	151	37.36
				24	75.2	70.72	241	56.58	193	37.50	80.37	274	58.67	200	39.60	82.78	282	48.84	167	37.74
				27	80.6	71.44	244	57.87	197	36.68	81.18	277	61.70	211	40.00	83.62	285	54.35	185	37.77
				31	87.8	72.87	249	61.21	209	35.90	82.80	283	65.41	223	39.60	85.29	291	59.70	204	38.17
52	126	16500	9712	23	73.4	49.05	167	36.79	126	36.75	55.74	190	39.02	133	38.80	57.41	196	31.00	106	36.98
				24	75.2	49.55	169	39.64	135	37.12	56.31	192	41.10	140	39.20	58.00	198	34.22	117	37.36
				27	80.6	50.05	171	40.54	138	36.31	56.88	194	43.23	147	39.20	58.58	200	38.08	130	37.39
				31	87.8	50.55	172	42.46	145	35.19	57.44	196	45.38	155	38.82	59.17	202	41.42	141	37.41

Outdoor Air WBT		Air Flow Rate		ESP		Indoor Air DBT ℉ (℃)											
						60.8 ℉ (16℃)				68 ℉ (20℃)				75.2 ℉ (24℃)			
						Total Capacity		Power Input	EER	Total Capacity		Power Input	EER	Total Capacity		Power Input	EER
℃	℉	m³/hr	cfm	Pa	in.wg	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W	kW	Mbh	kW	W/W
9	48.2	16500	9712	200	0.8	135.76	463	38.67	3.51	133.10	454	40.28	3.30	129.11	441	41.89	3.08
6	42.8					123.42	421	36.48	3.38	121.00	413	38.00	3.18	117.37	400	39.52	2.97
1	33.8					80.22	274	33.93	2.36	78.65	268	35.34	2.23	76.29	260	36.75	2.08
-6	-21.2					69.12	236	30.28	2.28	67.76	231	31.54	2.15	65.73	224	32.80	2.00
-9.5	-14.9					61.71	211	27.36	2.26	60.50	206	28.50	2.12	58.69	200	29.64	1.98

Model：FRT-C30TH/NaA

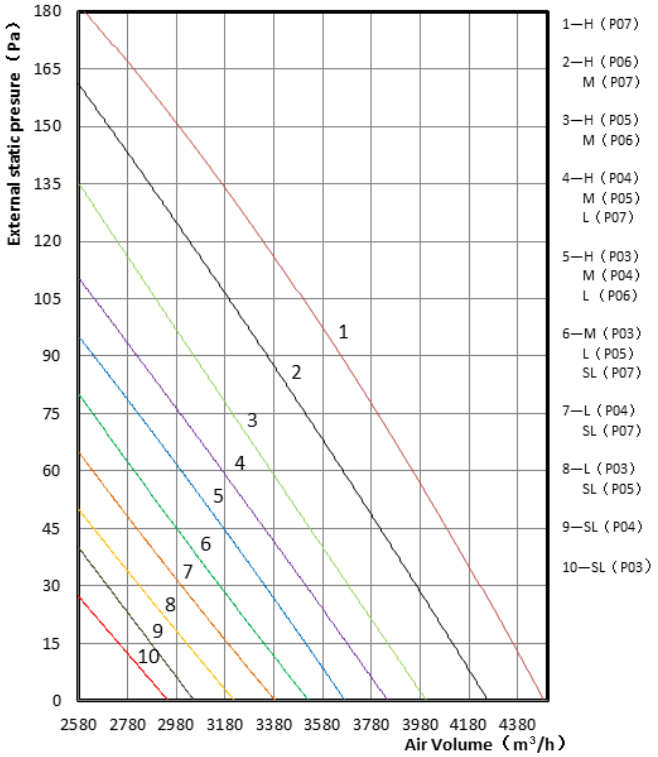
Outdoor Air DBT		Air Flow Rate		Entering Air DBT		Indoor Air Wet Bulb Temperature℃ (℉)														
						17℃ (62.6 ℉)					19℃ (66.2 ℉)					22℃ (71.6 ℉)				
						TC		SCC		PI	TC		SCC		PI	TC		SCC		PI
℃	℉	m^3/hr	cfm	℃	℉	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW	kW	Mbh	kW	Mbh	kW
27	80.6	18500	10889	23	73.4	94.86	324	71.15	243	27.57	107.8	368	75.46	257	28.86	111.0	379	59.96	205	27.76
				24	75.2	95.83	327	76.67	262	27.85	108.9	372	79.50	271	29.15	112.1	383	66.18	226	28.04
				27	80.6	96.80	330	78.41	268	27.43	110.0	375	83.60	285	30.66	113.3	387	73.65	251	28.12
				31	87.8	97.77	334	82.13	280	26.59	111.1	379	87.77	299	29.06	114.4	390	80.10	273	28.19
35	95	18500	10889	23	73.4	86.24	294	64.68	221	31.87	98.00	334	68.60	234	33.66	100.9	344	54.51	186	32.07
				24	75.2	87.12	297	69.70	238	32.20	99.00	338	72.27	247	34.00	101.9	348	60.16	205	32.40
				27	80.6	88.00	300	71.28	243	31.49	100.0	341	76.00	259	34.00	103.0	351	66.95	228	32.43
				31	87.8	88.88	303	74.66	255	30.52	101.0	345	79.79	272	33.67	104.0	355	72.82	248	32.45
46	115	18500	10889	23	73.4	68.30	233	51.23	175	31.83	77.62	265	54.33	185	33.61	79.94	273	43.17	147	32.03
				24	75.2	69.00	235	55.20	188	32.16	78.41	268	57.24	195	33.96	80.76	276	47.65	163	32.36
				27	80.6	69.70	238	56.45	193	31.45	79.20	270	60.19	205	34.30	81.58	278	53.02	181	32.38
				31	87.8	71.09	243	59.72	204	30.79	80.78	276	63.82	218	33.96	83.21	284	58.25	199	32.73
52	126	18500	10889	23	73.4	47.85	163	35.89	122	31.51	54.38	186	38.06	130	33.27	56.01	191	30.25	103	31.71
				24	75.2	48.34	165	38.67	132	31.83	54.93	187	40.10	137	33.61	56.58	193	33.38	114	32.03
				27	80.6	48.83	167	39.55	135	31.14	55.49	189	42.17	144	33.61	57.15	195	37.15	127	32.06
				31	87.8	49.32	168	41.43	141	30.18	56.04	191	44.27	151	33.28	57.72	197	40.41	138	32.08

Notice: DBT: Dry Bulb Temperature.

AIR VOLUME STATIC PRESSURE CURVE

Some units fan motor speed is adjustable, there are multiple static pressure mode, namely P03, P04, P05, P06, P07. Unit default static pressure mode is P05. The user can choose the suitable static pressure mode according to the actual air volume demand.

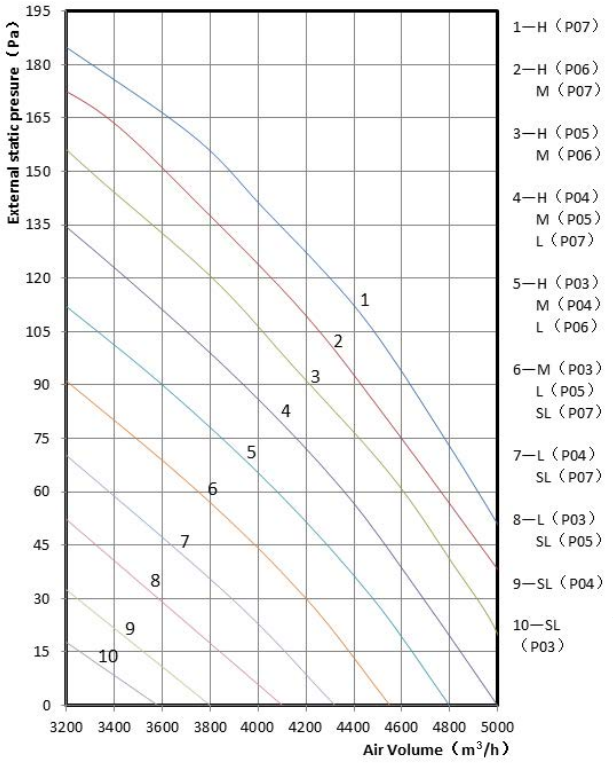
Model：FRT-H5.5TH/NaA,FRT-H6.2TH/NaA



The corresponding curves of rotating speed in different static pressure modes are as follows：

Static pressure mode	H	M	L	SL	Rated air volume static pressure（Pa）	Maximum static pressure（Pa）
P03	S5	S6	S8	S10	30	95
P04	S4	S5	S7	S9	44	110
P05	S3	S4	S6	S8	60	135
P06	S2	S3	S5	S6	90	160
P07	S1	S2	S4	S6	115	185

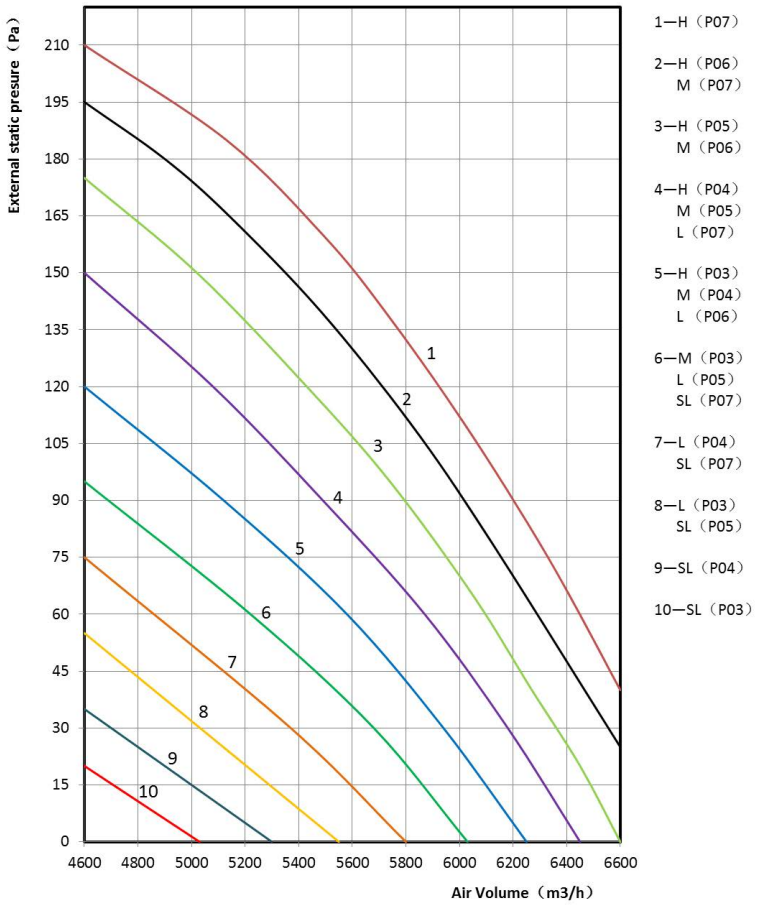
Model：FRT-H7.5TH/NaA



The corresponding curves of rotating speed in different static pressure modes are as follows：

Static pressure mode	H	M	L	SL	Rated air volume static pressure（Pa）	Maximum static pressure（Pa）
P03	S5	S6	S8	S10	38	108
P04	S4	S5	S7	S9	50	135
P05	S3	S4	S6	S8	80	155
P06	S2	S3	S5	S6	93	173
P07	S1	S2	S4	S6	113	185

Model：FRT-H10TH/NaA



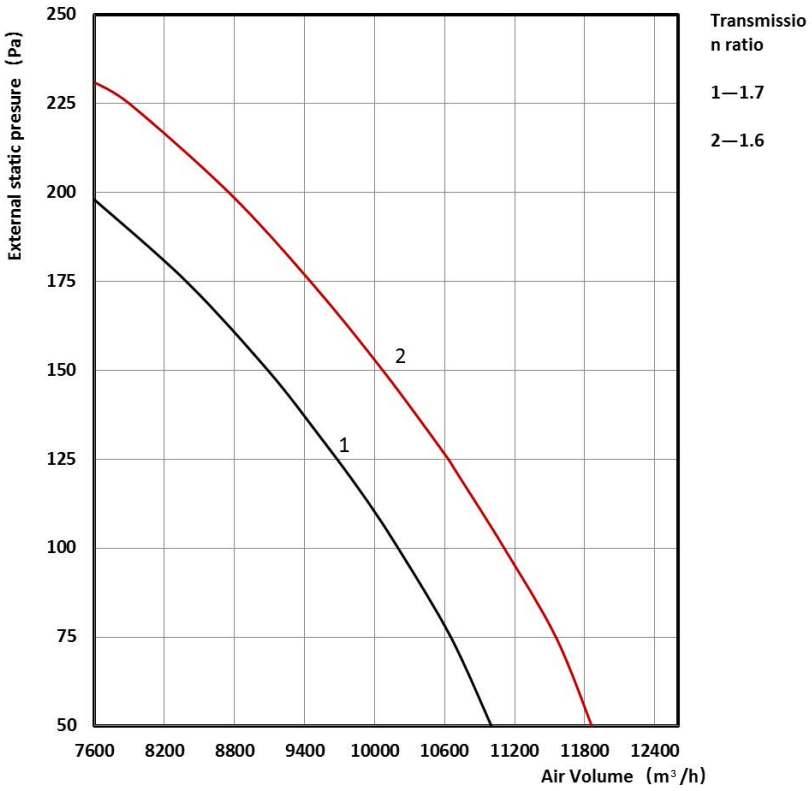
The corresponding curves of rotating speed in different static pressure modes are as follows：

Static pressure mode	H	M	L	SL	Rated air volume static pressure（Pa）	Maximum static pressure（Pa）
P03	S5	S6	S8	S10	39	120
P04	S4	S5	S7	S9	68	150
P05	S3	S4	S6	S8	90	175
P06	S2	S3	S5	S6	113	195
P07	S1	S2	S4	S6	130	210

Model: FRT-H15TH/NaA

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 1.7. The belts are matched as follows.

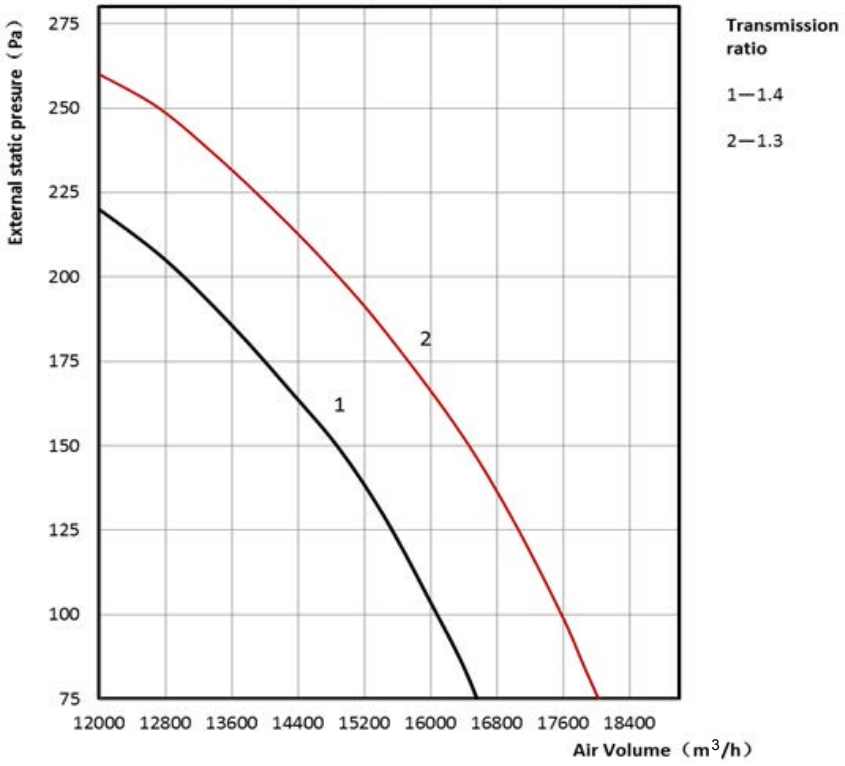
Curve	Fan speed	Transmission ratio	Motor pulley	Fan pulley	Fan taper sleeve	Belt	Rated static pressure （Pa）	Static pressure range （Pa）
S1	853	1.7	2-SPA106	2-SPA180	2012-30	SPA(1700mm)	130	50-200
S2	906	1.6	2-SPA106	2-SPA170	2012-30	SPA(1682mm)	170	50-230



Model：FRT-H20TH/NaA

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 1.4. The belts are matched as follows.

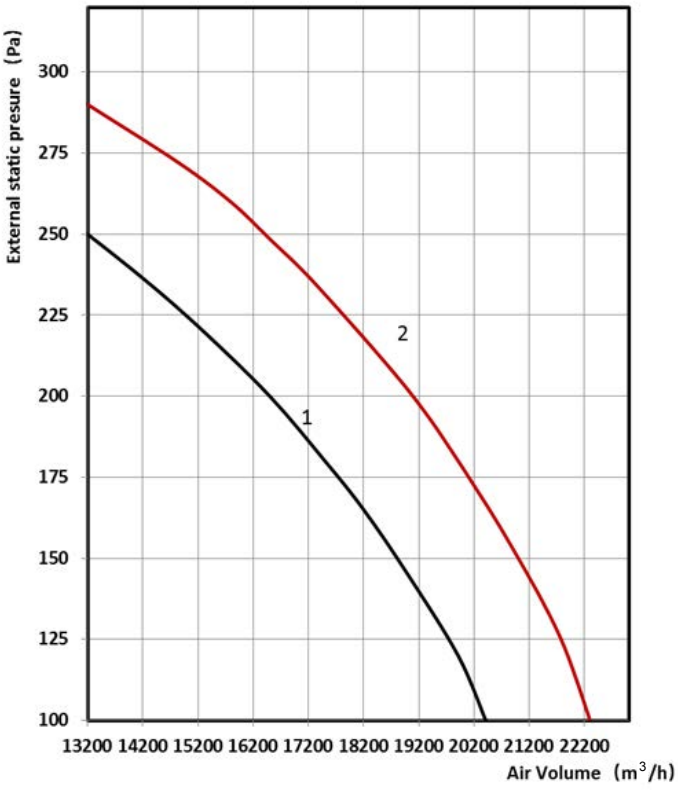
Curve	Fan speed	Transmission ratio	Motor pulley	Fan pulley	Fan taper sleeve	Belt	Rated static pressure （Pa）	Static pressure range （Pa）
S1	1036	1.4	2-SPA100	2-SPA140	2012-35	SPA(1432mm)	150	75-220
S2	1115	1.3	2-SPA100	2-SPA132	2012-35	SPA(1400mm)	200	75-260



Model：FRT-H25TH/NaA

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 1.4. The belts are matched as follows.

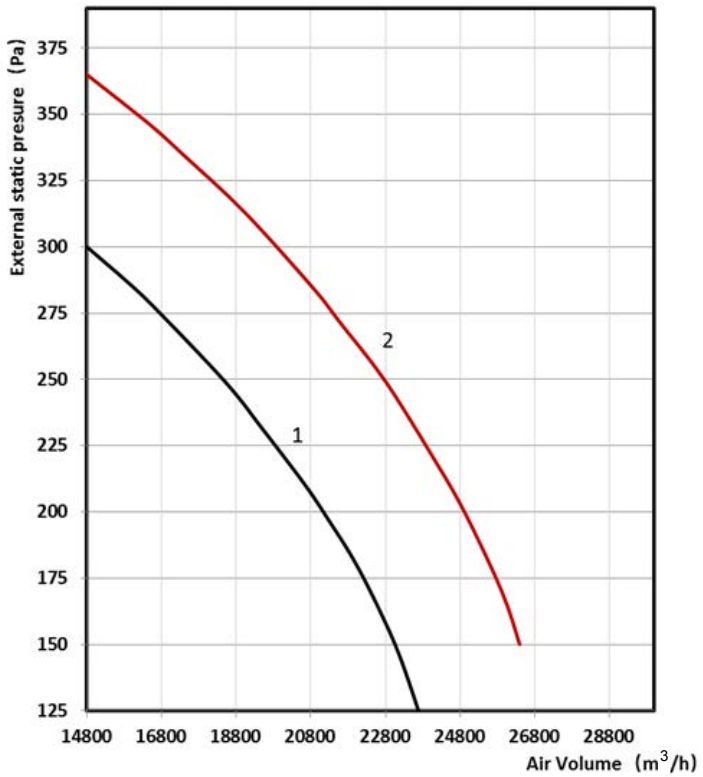
Curve	Fan speed	Transmission ratio	Motor pulley	Fan pulley	Fan taper sleeve	Belt	Rated static pressure （Pa）	Static pressure range （Pa）
S1	1036	1.4	2-SPA112	2-SPA160	2012-35	SPA(1432mm)	200	100-250
S2	1115	1.3	2-SPA112	2-SPA150	2012-35	SPA(1400mm)	250	100-290



Model：FRT-C30TH/NaA

The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 2.4. The belts are matched as follows.

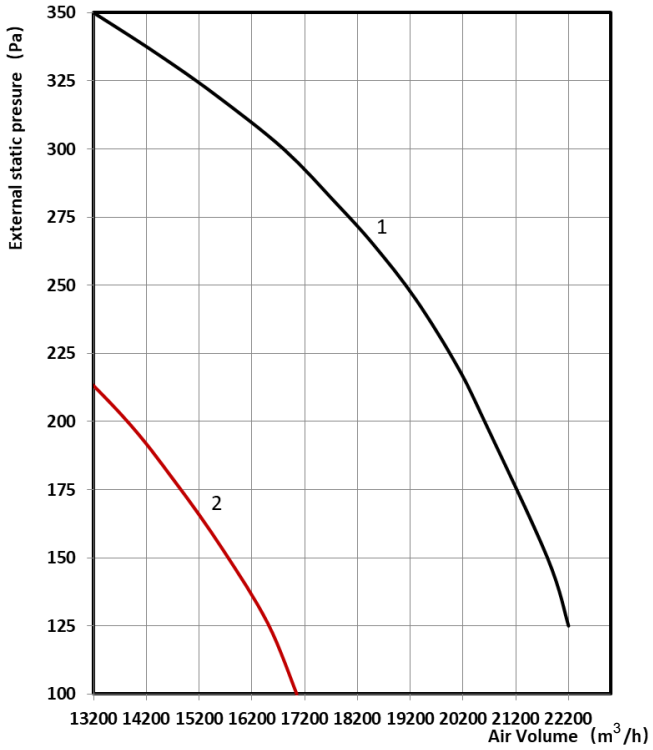
Curve	Fan speed	Transmission ratio	Motor pulley	Fan pulley	Fan taper sleeve	Belt	Rated static pressure （Pa）	Static pressure range （Pa）
S1	604	2.4	2-SPA150	2-SPA355	2517-40	SPA(2432mm)	250	125-300
S2	690	2.1	2-SPA150	2-SPA315	2517-40	SPA(2382mm)	320	150-365



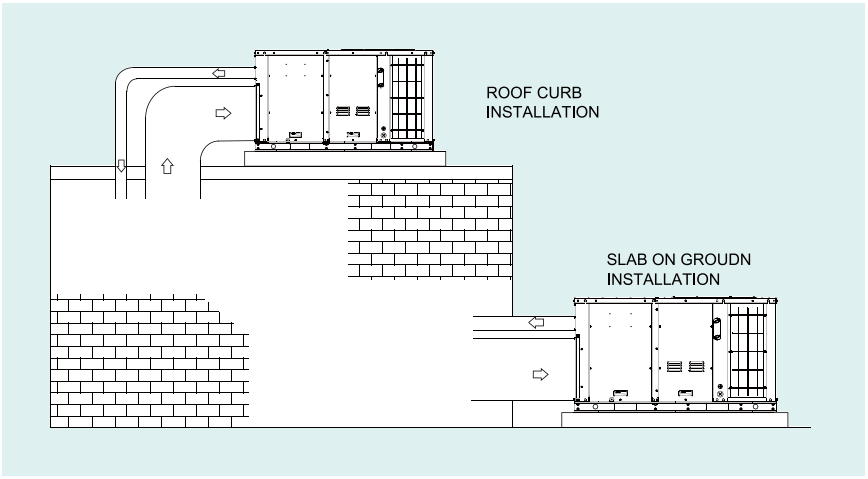
Model：FRT-H30TC/NaA

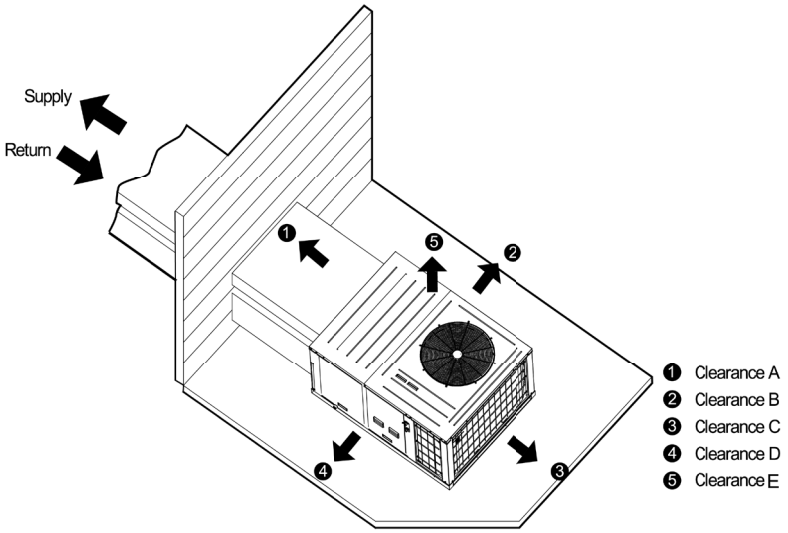
The unit can change the belt, there are two transmission ratios, corresponding to different speeds, unit default transmission ratio is 2.4. The belts are matched as follows.

Curve	Fan speed	Transmission ratio	Motor pulley	Fan pulley	Fan taper sleeve	Belt	Rated static pressure （Pa）	Static pressure range （Pa）
S1	868	1.7	2-SPA150	2-SPA250	2517-35	SPA(2120mm)	310	125-350
S2	725	2	2-SPA125	2-SPA250	2517-35	SPA(2157mm)	125	125-210



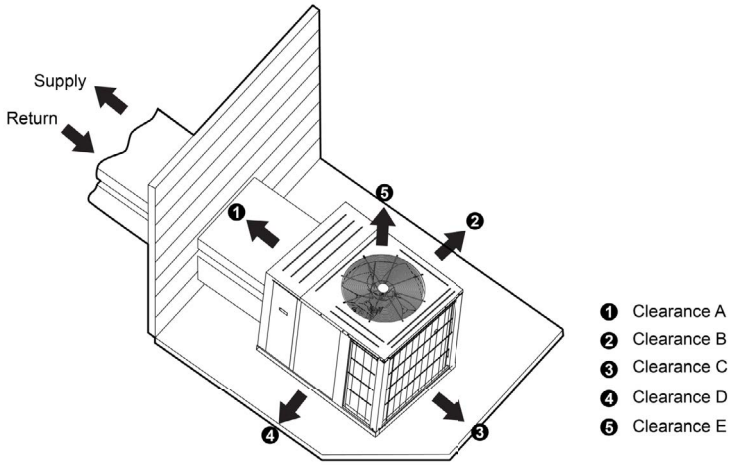
Installation Positions and Clearances



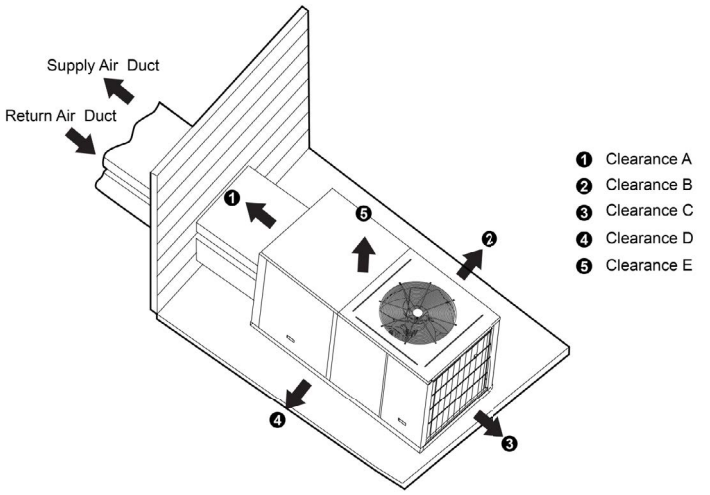


FRT-H5.5TH/NaA,FRT-H6.2TH/NaA

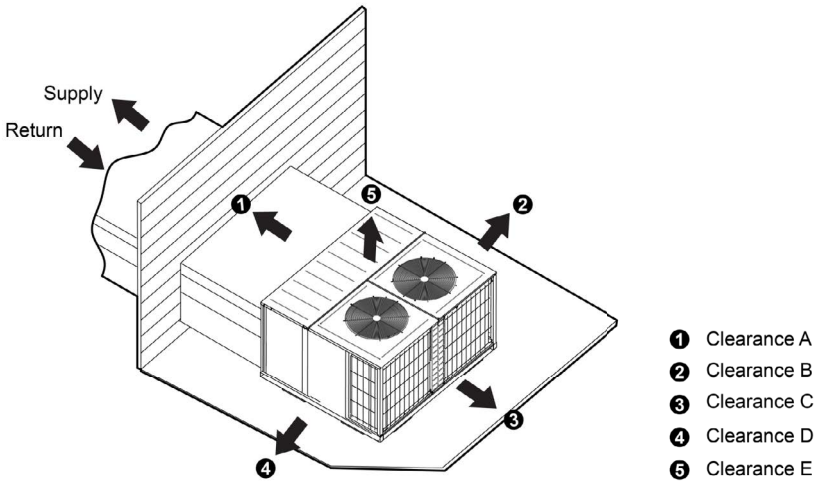
Installation clearances		
Dimension (minimum)	mm	inch
A	600	24
B	1100	43
C	860	34
D	1100	43
E	3000	118



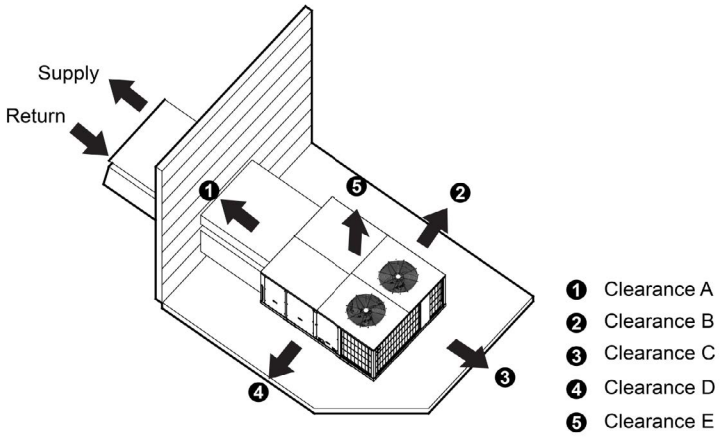
FRT-H7.5TH/NaA,FRT-H10TH/NaA



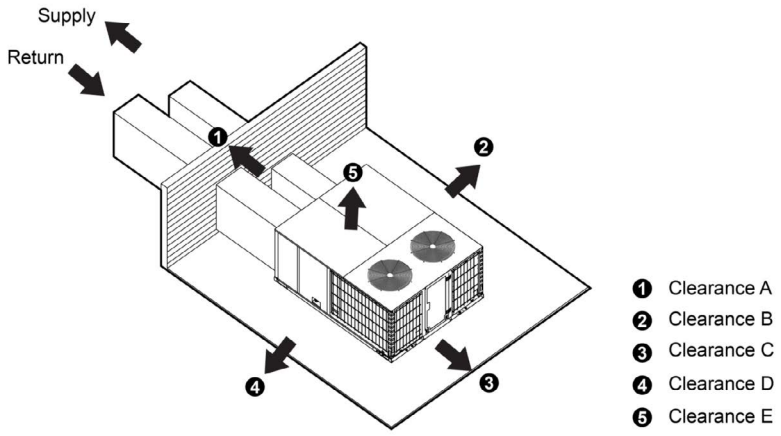
FRT-H15TH/NaA



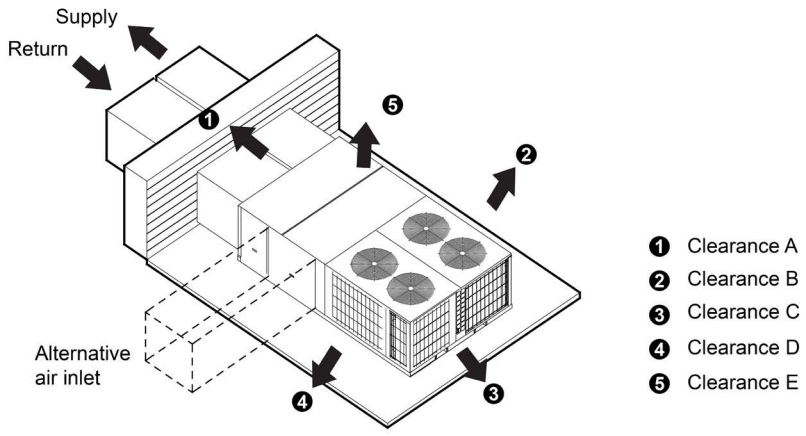
FRT-H20TH/NaA



FRT-H25TH/NaA



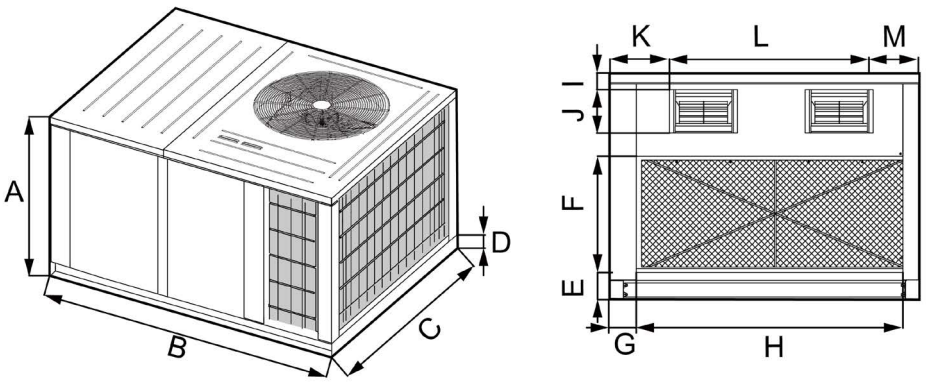
FRT-H30TC/NaA



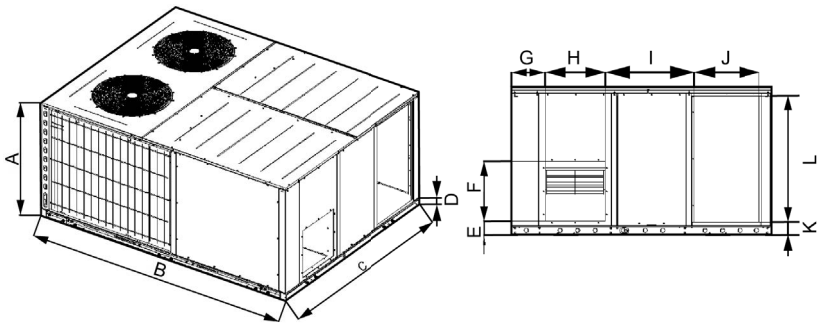
FRT-C30TH/NaA

Installation clearances		
Dimension(minimum)	mm	inch
A	1000	39
B	1500	59
C	1100	43
D	1100	43
E	3000	118

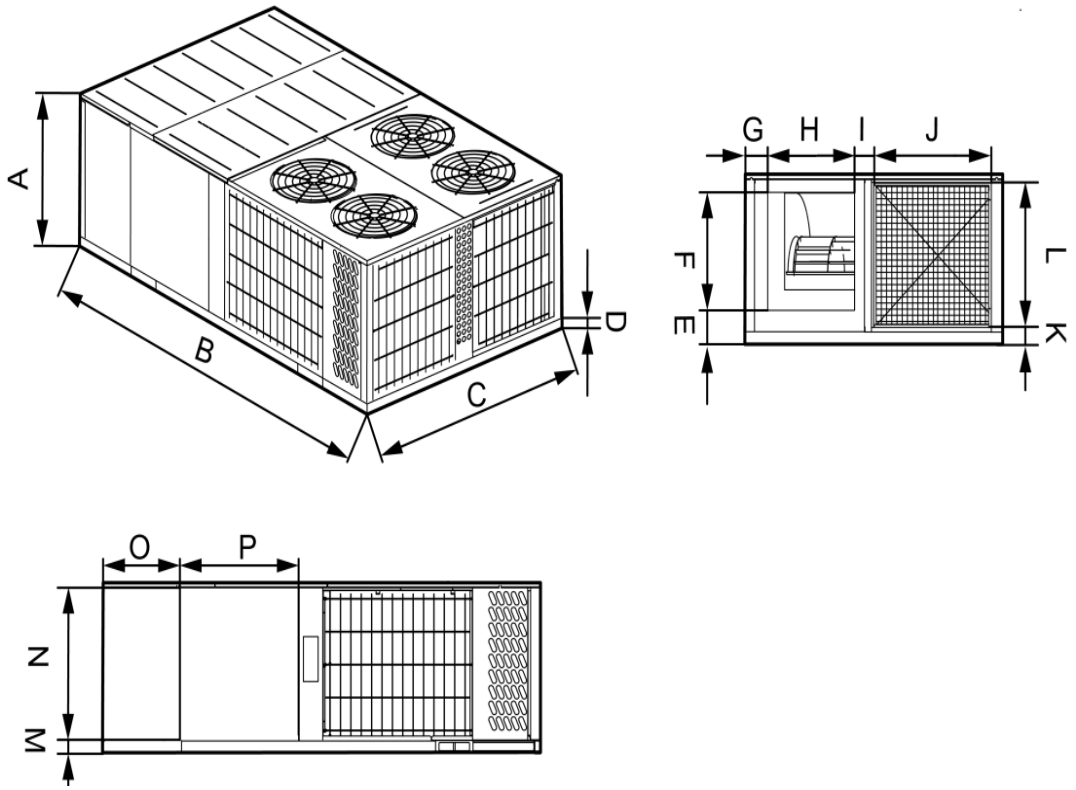
DIMENSION



FRT-H5.5TH/NaA,FRT-H6.2TH/NaA,FRT-H7.5TH/NaA,FRT-H10TH/NaA
FRT-H15TH/NaA,FRT-H20TH/NaA,FRT-H25TH/NaA



FRT-H30TC/NaA



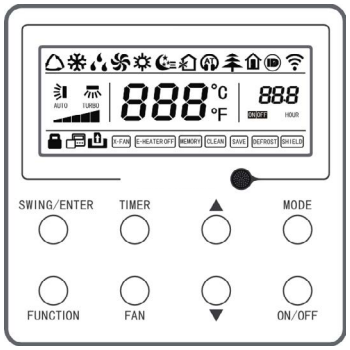
FRT-C30TH/NaA

Dimension(mm)	A	B	C	D	E	F	G	H	I	J	K	L	M
FRT-H5.5TH/NaA	815	1450	1120	70	98	417	94	916	65	190	144	866	105
FRT-H6.2TH/NaA	815	1450	1120	70	98	417	94	916	65	190	144	866	105
FRT-H7.5TH/NaA	1215	1450	1120	70	98	686	94	916	70	190	144	866	105
FRT-H10TH/NaA	1215	1450	1120	70	98	686	94	916	70	190	144	866	105
FRT-H15TH/NaA	1245	2260	1140	80	111	595	50	914	58	406	298	487	349
FRT-H20TH/NaA	1250	1880	2240	85	115	590	158	2021	45	412	311	1336	588
FRT-H25TH/NaA	1270	2880	2240	90	138	585	224	1920	71	407	294	1329	610
FRT-H30TC/NaA	1240	2850	2240	80	129	553	286	513	763	563	111	1081	-

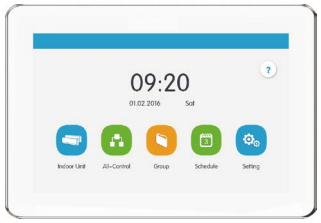
Dimension(mm)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
FRT-C30TH/NaA	1250	3800	2240	90	252	868	192	753	169	1015	147	1024	147	1024	664	1035

Note: Above diagrams may be different from actual model.

CONTROLLER



Wired Controller (Standard)



Central Controller

Modbus Gateway

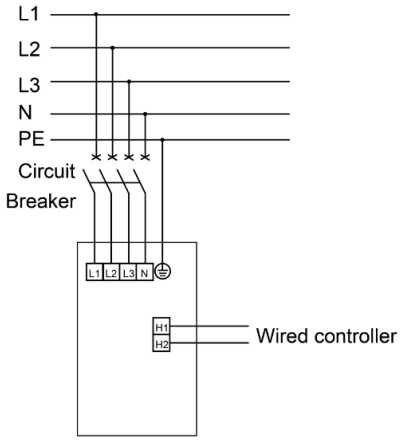
Dry Contact Gateway

Wireless Remote Controller

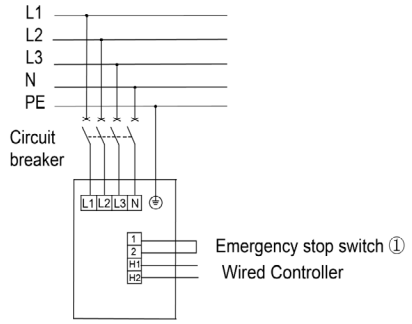
WIRING DIAGRAM

Field Wiring Diagrams

Model：FRT-H5.5TH/NaA,FRT-H6.2TH/NaA, FRT-H7.5TH/NaA,FRT-H10TH/NaA , FRT-H15TH/NaA,FRT-H20TH/NaA, FRT-H25TH/NaA,FRT-C30TH/NaA



Model:FRT-H30TC/NaA



Note:①The factory has been short-circuited, when the user needs to connect the emergency stop switch, please remove the corresponding short-circuit wire

Specification of Power Supply Wire and Circuit Breaker

Model name	Power supply	Capability of circuit breaker (A)	Min. sectional area of earth wire(mm²)	Min. sectional area of power cord(mm²)
FRT-H5.5TH/NaA	380-415V 3N~,50/60Hz	25	2.5	2.5
FRT-H6.2TH/NaA	380-415V 3N~,50/60Hz	25	2.5	2.5
FRT-H7.5TH/NaA	380-415V 3N~,50/60Hz	32	4.0	4.0
FRT-H10TH/NaA	380-415V 3N~,50/60Hz	32	4.0	4.0
FRT-H15TH/NaA	380-415V 3N~,50Hz	63	10.0	10.0
FRT-H20TH/NaA	380-415V 3N~,50Hz	63	10.0	10.0
FRT-H25TH/NaA	380-415V 3N~,50Hz	80	16.0	25.0
FRT-C30TH/NaA	380-415V 3N~,50Hz	80	16.0	25.0
FRT-H30TC/NaA	380-415V 3N~,50Hz	100	16.0	25.0

Notice：

- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- The circuit breaker and power cord specification in above sheet is based on max power (max current) of the unit.
- The power cord specification in above sheet is based on ambient temperature of 40°C.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- The circuit breaker specification in above sheet is based on ambient temperature of 40°C. If the working condition is different, please adjust it according to the specification sheet of circuit breaker.

ACCESSORIES

Part Name	Model	Product Code	Model
			FRT-H5.5TH/NaA, FRT-H6.2TH/NaA, FRT-H7.5TH/NaA, FRT-H10TH/NaA,FRT-H15TH/NaA, FRT-H20TH/NaA,FRT-H25TH/NaA,FRT-C30TH/NaA,FRT-H30TC/NaA
Wired Controller	XK117	MC20700730	●
Central controller with Weekly Timer	CE52-24/F(C)	MC207052	○
Electric heating	GKRd36/A-X	EN02000070	○
Dry contact gateway	ME30-42/E1	NC20000020	○
Wireless Remote Controller	YB1FA	/	○
Modbus Gateway	ME50-00/EG(M)	NC20000010	○

Note: “ ● ”means standard, “ ○ ”means optional,Electric heating is only suitable for FRT-C30TH/NaA.

Fujiaire reserves the right to modify the specifications without prior notice. Please confirm the final specifications with sales representative.

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