

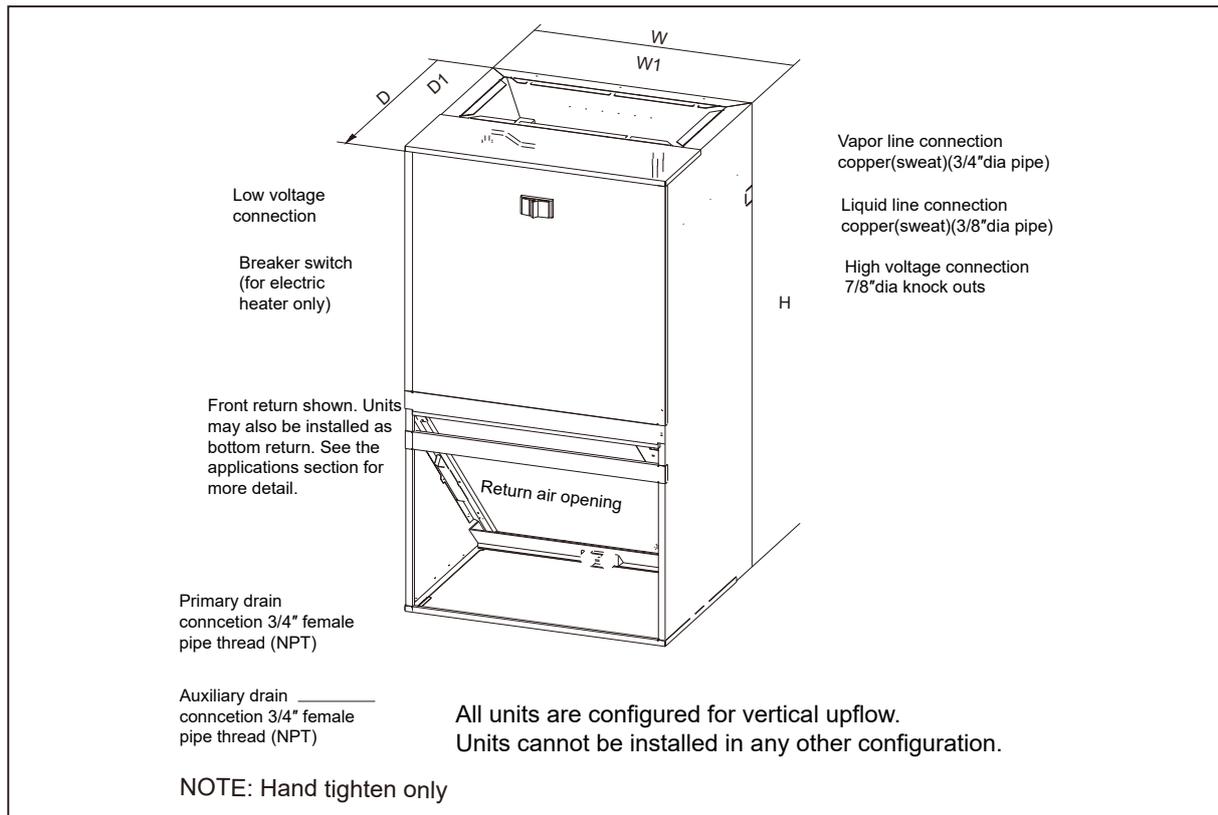
Submittal

TAG:

Wall-Mounted

Front Return Air Handler

Cooling capacity: 18–36 kBTU/h



Unit Dimension

Model Size	Dimensions inch (mm)					Unit Weight /Shipping Weight (LBS.(kg))
	Unit Height "H" inch (mm)	Unit Width "W" inch (mm)	Unit Width "W1" inch (mm)	Unit Length "D" inch (mm)	Unit Length "D1" inch (mm)	
18K	36-1/2 (928)	20-2/3 (526)	17-1/2 (446)	15 (381)	9-1/2 (242)	81.4/91.3 (37)/(41.5)
24K	36-1/2 (928)	20-2/3 (526)	17-1/2 (446)	15 (381)	9-1/2 (242)	81.4/91.3 (37)/(41.5)
30K	39-1/2 (1004)	22 (559)	18-4/5 (478)	19 (483)	9-1/2 (242)	104.5/116.6 (47.5)/(53)
36K	39-1/2 (1004)	22 (559)	18-4/5 (478)	19 (483)	9-1/2 (242)	104.5/116.6 (47.5)/(53)

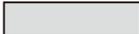
Specifications

ECM

	18K	24K	30K	36K
NOMINAL RATING				
Cooling (BTU/h)	17,400	22,000	29,000	33,800
External Static Pressure (in.w.c)	0.6	0.6	0.6	0.6
ELECTRICAL DATA				
Voltage / Phase (60Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	208/230V	208/230V	208/230V	208/230V
Min. Circuit Amps (MCA) (A)	4	4	5	5
Max. Overcurrent Protection (MOP) (A)	6	6	6	6
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor (uF)	/	/	/	/
Horsepower (HP)	1/3	1/3	1/2	1/2
Rated RPM	1050	1050	1050	1050
Full Load Amps (FLA) (A)	2.6	2.6	3.8	3.8
Refrigerant Detector				
Number of Detector	1	1	1	1
Type	TC/NDIR	TC/NDIR	TC/NDIR	TC/NDIR
Detection Threshold Limit Value (DTLV)	0.1	0.1	0.1	0.1
Measurement Range	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Operating temp (°F)	-22 ~ 158	-22 ~ 158	-22 ~ 158	-22 ~ 158
FAN BLOWER				
Material	Metal	Metal	Metal	Metal
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Diameter (in.)	10	10	10	10
Height (in.)	6	6	9	9
EVAPORATOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	copper	copper	copper	copper
Tube Size (mm)	7	7	7	7
Sound Pressure Level dBA	51	51	53	54
REFRIGERANT CONNECTION SIZE				
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4	3/4

Air Flow Performance

Model size of air processor	Motor speed		SCFM						
			External Static Pressure-Inch Water Column [kPa]						
			0[0]	0.1[.02]	0.2[.05]	0.3[.07]	0.4[.10]	0.5[.12]	0.6[.15]
18K	Tap (5)	SCFM	917	898	853	821	789	761	730
		Watts	179	182	189	195	200	205	210
	Tap (4)	SCFM	872	837	804	770	737	709	679
		Watts	156	161	165	171	176	181	186
	Tap (3)	SCFM	814	776	739	705	671	639	606
		Watts	128	133	138	143	147	151	156
	Tap (2)	SCFM	708	664	622	580	542	496	432
		Watts	93	97	102	105	110	114	121
	Tap (1)	SCFM	633	585	538	494	438	382	340
		Watts	69	73	77	81	85	91	98
24K	Tap (5)	SCFM	917	898	853	821	789	761	730
		Watts	179	182	189	195	200	205	210
	Tap (4)	SCFM	872	837	804	770	737	709	679
		Watts	156	161	165	171	176	181	186
	Tap (3)	SCFM	814	776	739	705	671	639	606
		Watts	128	133	138	143	147	151	156
	Tap (2)	SCFM	708	664	622	580	542	496	432
		Watts	93	97	102	105	110	114	121
	Tap (1)	SCFM	633	585	538	494	438	382	340
		Watts	69	73	77	81	85	91	98
30K	Tap (5)	SCFM	1318	1282	1241	1205	1165	1113	1071
		Watts	268	276	282	289	296	304	311
	Tap (4)	SCFM	1230	1192	1151	1110	1055	1013	971
		Watts	223	230	236	243	250	257	263
	Tap (3)	SCFM	1129	1071	1025	976	933	886	840
		Watts	172	178	184	191	197	203	209
	Tap (2)	SCFM	1039	976	926	876	826	779	718
		Watts	136	142	147	153	159	165	172
	Tap (1)	SCFM	894	836	781	725	668	595	524
		Watts	98	103	108	112	118	124	129
36K	Tap (5)	SCFM	1318	1282	1241	1205	1165	1113	1071
		Watts	268	276	282	289	296	304	311
	Tap (4)	SCFM	1230	1192	1151	1110	1055	1013	971
		Watts	223	230	236	243	250	257	263
	Tap (3)	SCFM	1129	1071	1025	976	933	886	840
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	Tap (2)	SCFM	1039	976	926	876	826	779	718
		Watts	136	142	147	153	159	165	172
	Tap (1)	SCFM	894	836	781	725	668	595	524
		Watts	98	103	108	112	118	124	129

 The highlighted area indicates the airflow within the required range.

Note:

1. The advanced airflow must be used as the rated airflow for the full-load operation of the machine.
2. The rated airflow of a system without an electric heater kit requires more than 300 cubic feet of air per minute (CFM).
3. The rated airflow of a system with an electric heater kit requires more than 300 cubic feet of air per minute (CFM).
4. The air distribution system has the greatest influence on air flow. Therefore, the contractor should only use the procedures recognized by the industry.
5. The design and construction of air duct should be done carefully. Poor design or process will lead to a significant decline in system performance.
6. The air supply duct should be set along the periphery of the air-conditioned space with appropriate size. Improper location or insufficient airflow may lead to insufficient ventilation or noise in the ductwork.
7. The installer should balance the air distribution system to ensure that all rooms in the room have proper quiet airflow. The speedometer or airflow hood can be used to balance and verify the branch duct and system airflow (CFM).

Features

- Direct-drive, multi-speed motors enable adjustable airflow for both heating and cooling modes.
- Thermoplastic drain pan featuring primary and secondary drain connections at the bottom, with integrated filter rack.
- Includes wall-mounting bracket as standard.
- Supports both front-return and bottom-return configurations.
- Optional electric heat kits available in 5kW, 7.5kW, and 10kW capacities.
- Features copper-aluminum evaporator coil superior heat transfer.
- AHRI certified and ETL listed.
- Equipped with factory-installed R454B refrigerant leak sensor for enhanced safety.



Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.