

Specification Guide

W Series

Wall Mount Air Handlers

Electric or No Heat



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Product Features

- Wall hanging bracket.
- Air filter included with every air handler.
- 1" insulation for excellent sweat resistance and quiet operation.
- 1" duct flanges on all models simplify attachment to plenums such as 1 1/2" ductboard.
- Isolation mounting on motors for quiet vibration free operation.
- Easy to access blower wheel, only need to remove 3 screws.
- Easy to access florator body for quick piston change or expansion valve installation.
- Easy to access condensate drain connections through bottom panel.
- Easy to service electric heat section.
- Bottom panel can be opened for servicing by removing only 1 screw.
- Bottom, left or right condensate drain connections available on every model.
- Refrigerant connections located on top of every air handler.
- Internal low voltage connections for a clean looking installation.

Physical Data

		Unit Size					
		18	24	30	31	36	42
Available Voltages		208/240 V, 60 Hz, 1 Phase					
Maximum Elec. Heat available (kW)		10	10	10	10	15	15
Transformer Size and Type		40VA, Class 2					
Blower Data	Wheel (dia." x width")	10 x 6	10 x 6	10 x 6	10 X 8	10 x 8	10 x 8
	Motor H.P.	1/5	1/4	1/3	1/3	1/2	1/2
	F.L.A. @ 240 V	1.1	1.9	2.2	2.6	3.0	3.0
	Speed	3	3	3	3	3	3
	Nominal CFM	600	800	1000	1000	1200	1400
Air Filter Size (in)		20 x 20	20 x 20	20 x 20	20 x 25	20 x 25	20 x 25
Refrigerant Conn.(IDS) Suction		3/4"	3/4"	3/4"	3/4"	3/4"	7/8"
Refrigerant Conn. (IDS) Liquid		3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
R-410A Piston Size (in)		0.049	0.053	0.059	0.059	0.067	0.073
R-22 Piston Size (in)		0.053	0.059	0.067	0.067	0.073	0.080
Approx. Weight (lbs)		99	101	103	118	118	121

Nomenclature

W A K1 2 24 05 C2

Series

W = Wall Mount

Panel Options

- A = Upper front panel (embossed)
- B = Upper and lower front panel (embossed)
- C = Upper front panel (taupe)
- D = Upper and lower front panel (taupe)
- L = Upper and lower louvered front panel (taupe)

Slab Number

Metering Device

- 1 = Piston (R-410A)
- 2 = Piston (R-22)
- 3 = Bleed A/C Expansion Valve R-22
- 4 = Non-Bleed A/C Expansion Valve R-22
- 5 = Non-Bleed HP Expansion Valve R-22
- 6 = Non-Bleed A/C Expansion Valve R-410A
- 9 = Non-Bleed HP Expansion Valve R-410A

Unit Size

18, 24, 30, 31, 36, 42

Line Voltage Connections

	Amount of Heat					
	0	5	7.5	10	12.5	15
S2 = Stripped wire	#					
P2 = Pull disconnect		#	#	#		
T2 = Terminal block		*	*	*		
C2 = Circuit breaker		*	*	*	#	#

= Standard * = Optional

Electric Heat

- 00 = 0 kW (all sizes)
- 05 = 5 kW (all sizes)
- 07 = 7.5 kW (all sizes)
- 10 = 10 kW (all sizes)
- 12 = 12.5 kW (sizes 36, 42)
- 15 = 15 kW (sizes 36, 42)

Blower Performance

Unit Size	Cooling Speed Setting *	Dry Coil with Filter & Electric Heat				
		Airflow (CFM) vs. External Static Pressure (inches W.C.)				
		0.1	0.2	0.3	0.4	0.5
18	Low	555	546	537	523	487
	Medium	653	634	626	578	578
	High	725	675	640	623	602
24	Low	662	648	623	603	563
	Medium	815	786	779	753	730
	High	985	945	906	877	829
30	Low	804	782	777	750	722
	Medium	1,009	978	946	900	858
	High	1,129	1,085	1,047	976	925
31	Low	1,111	1,076	1,040	991	938
	Medium	1,242	1,189	1,151	1,089	1,016
	High	1,335	1,282	1,221	1,168	1,095
36	Low	1,175	1,145	1,116	1,047	985
	Medium	1,333	1,296	1,267	1,242	1,201
	High	1,437	1,412	1,378	1,341	1,291
42	Low	1,175	1,145	1,116	1,047	985
	Medium	1,333	1,296	1,267	1,242	1,201
	High	1,437	1,412	1,378	1,341	1,291

* Cooling speed settings in **bold** are factory settings.

Clearances

TOP	0"
FRONT *	18"
SIDES	0"
REAR	0"

* Can be less than 18" if front panel is directly behind a louvered closet door; check with local codes and regulations.

Electrical Data

Unit Size	Heating Capacity		Blower Amps		Minimum Circuit Ampacity (2)		Max Fuse or HACR Breaker	
	kW	MBTUH	208 V	240 V	208 V	240 V	Circuit 1	Circuit 2
	(1) 240 V	(1) 240 V						
18 No Heat	0	0	1.2	1.1	1.5	1.4	15	-
18 Elec. Heat	5.0	17,065	1.2	1.1	24.1	27.4	30	-
	7.5	25,598	1.2	1.1	35.3	40.4	45	-
	10.0	34,130	1.2	1.1	46.6	53.5	60	-
24 No Heat	0	0	2	1.9	2.5	2.4	15	-
24 Elec. Heat	5.0	17,065	2	1.9	25.1	28.4	30	-
	7.5	25,598	2	1.9	36.3	41.4	45	-
	10.0	34,130	2	1.9	47.6	54.5	60	-
30 No Heat	0	0	2.4	2.2	3.0	2.8	15	-
30 Elec. Heat	5.0	17,065	2.4	2.2	25.6	28.8	30	-
	7.5	25,598	2.4	2.2	36.8	41.8	45	-
	10.0	34,130	2.4	2.2	48.1	54.8	60	-
31 No Heat	0	0	2.8	2.6	3.5	3.3	15	-
31 Elec. Heat	5.0	17,065	2.8	2.6	26.1	29.3	30	-
	7.5	25,598	2.8	2.6	37.3	42.3	45	-
	10.0	34,130	2.8	2.6	48.6	55.3	60	-
36 No Heat	0	0	3.2	3.0	4.0	3.8	15	-
36 Elec. Heat	5.0	17,065	3.2	3.0	26.6	29.8	30	-
	7.5	25,598	3.2	3.0	37.8	42.8	45	-
	10.0	34,130	3.2	3.0	49.1	55.8	60	-
	12.5	42,663	3.2	3.0	60.4	68.9	45	30
	15.0	51,195	3.2	3.0	71.7	81.9	60	30
42 No Heat	0	0	3.2	3.0	4.0	3.8	15	-
42 Elec. Heat	5.0	17,065	3.2	3.0	26.6	29.8	30	-
	7.5	25,598	3.2	3.0	37.8	42.8	45	-
	10.0	34,130	3.2	3.0	49.1	55.8	60	-
	12.5	42,663	3.2	3.0	60.4	68.9	45	30
	15.0	51,195	3.2	3.0	71.7	81.9	60	30

Note: kW packages in **bold** indicates that these heat packages require and include circuit breakers. Optional for others.

(1) For 208 Volts use .751 correction factor for kW & BTUH.

(2) 12.5 & 15Kw (2 stage models) require 2 supply circuits. Circuit #1 includes blower motor amps.

Dimensions

Unit Size	A	B	C	D	E	F	F	G	Duct Opening
18, 24, 30	15"	38 1/2"	11"	7"	5 1/2"	2 1/4"	2 1/4"	3 1/4"	10.0" D X 14.0" W
31, 36, 42	18 3/4"	44 1/2"	14 1/2"	7 3/8"	6.0"	2 1/2"	2 1/2"	5 1/2"	12.0" D X 14.0" W

