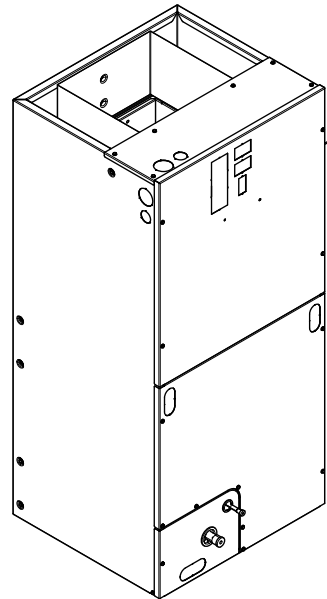


Submittal

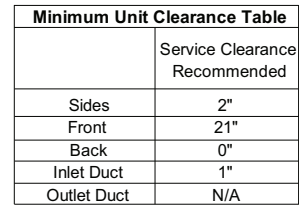
Convertible Air Handler 2 – 3.5 Ton

5TEM4D04AC31SA

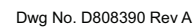


The 5TEM4 series air handler is designed for installation in a closet, utility room, alcove, basement, crawlspace or attic. These versatile units are applicable to air conditioning and heat pump applications. Several models are available to meet the specific requirements of the outdoor equipment. Field installed electric resistance heaters are available.

2



ALL DIMENSIONS ARE REFERENCE DIMENSIONS

5TEM4D04A-SUB-1A-EN

Product Specifications

MODEL	5TEM4D04AC31SA
RATED VOLTS/PH/HZ	208-230/1/60
RATINGS^(a)	See O.D. Specifications
INDOOR COIL — Type	Plate Fin
Rows — F.P.I.	3 - 14
Face Area (sq. ft.)	5.50
Tube Size (in.)	3/8
Refrigerant Control	TXV
Drain Conn. Size (in.) ^(b)	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing
INDOOR FAN — Type	Centrifugal
Diameter-Width (In.)	11 X 8
No. Used	1
Drive - No. Speeds	Direct - 8
CFM vs. in. w.g.	See Fan Performance Table
No. Motors — H.P.	1 - 1/2
Volts/Ph/Hz	208-230/1/60
F.L. Amps	3.9
FILTER	
Filter Furnished? ^(c)	No
REFRIGERANT	R-454B
Ref. Line Connections	Brazed

Coupling or Conn. Size — in. Gas	7/8
Coupling or Conn. Size — in. Liq.	3/8
DIMENSIONS	H x W x D
Crated (In.)	52-3/4 x 27-1/2 x 25-1/2
Uncrated	51-3/8 x 23-1/2 x 21-1/8
WEIGHT	
Shipping (Lbs.) / Net (Lbs.)	145/138

(a) These Air Handlers are A.H.R.I certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

(b) 3/4" Male Plastic Pipe (Ref: ASTM 1785-76)

(c) Remote filter required.

Minimum Airflow CFM

5TEM4D04AC31SA		
Heater	Minimum Heat Speed Tap	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	TAP 2	TAP 2
BAYHTR1508BRK, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510LUG	TAP 5	TAP 3
BAYHTR1523BRK	TAP 5	TAP 3
BAYHTR1517BRK, BAYHTR3517LUG, BAYHTR3510LUG	TAP 5	TAP 3

Heater Pressure Drop Table

Airflow CFM	Number of Racks					Heater Racks	
	1	2	3	4		Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					BAYHTR1504	1
1800	0.02	0.04	0.06	0.14		BAYHTR1505	1
1700	0.02	0.04	0.06	0.14		BAYHTR1508	2
1600	0.02	0.04	0.06	0.13		BAYHTR1510	2
1500	0.02	0.04	0.06	0.12		BAYHTR1517	3
1400	0.02	0.04	0.06	0.12		BAYHTR3510	3
1300	0.02	0.04	0.05	0.11		BAYHTR3517	3
1200	0.01	0.04	0.05	0.10		BAYHTR1523	4
1100	0.01	0.03	0.05	0.09		BAYHTR1525	4
1000	0.01	0.03	0.04	0.09			
900	0.01	0.03	0.04	0.08			
800	0.01	0.03					
700	0.01	0.02					
600	0.01	0.02					

Performance and Electrical Data

Table 1. Air Flow Performance

5TEM4D04AC31SA				
EXTERNAL STATIC (in w.g)	AIRFLOW			
	Speed Taps: 208-230 VOLTS			
	TAP 2	TAP 3 †	TAP 4	TAP 5
0.1	1230	1311	1385	1428
0.2	1187	1265	1342	1388
0.3	1140	1220	1299	1345
0.4	1089	1174	1256	1302
0.5	1036	1125	1210	1260
0.6	980	1070	1160	1211
0.7	909	1010	1110	1161
0.8	833	939	1053	1106
0.9	755	904	984	1041

Notes:

- TAP 1 is not an airflow selection. Black wire must always be on TAP 1.
- Values are with wet coil, no filter, and no heaters.
- CFM correction for dry coil = add 3%.
- † = factory setting

Performance and Electrical Data

Table 2. Electrical Data

5TEM4D04AC31SA											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater				3.9*	5	15			3.9*	5	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.8	13100	16.0	25	25	2.9	9800	13.8	22	25
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.8	16400	20.0	30	30	3.6	12300	17.3	27	30
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.7	26200	32.0	45	45	5.8	19700	27.7	39	40
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.6	32800	40.0	55	60	7.2	24600	34.6	48	50
BAYHTR1517BRK- Circuit 1 ^(a)	2/1	9.6	32800	40.0	55	60	7.2	24600	34.6	48	50
BAYHTR1517BRK- Circuit 2		4.8	16400	20.0	25	25	3.6	12300	17.3	22	25
BAYHTR1523BRK- Circuit 1	2/1	9.6	32800	40.0	55	60	7.2	24600	34.6	48	50
BAYHTR1523BRK- Circuit 2		9.6	32800	40.0	50	50	7.2	24600	34.6	43	45
BAYHTR3510LUG	1/3	9.6	32800	23.1	33	35	7.2	24600	20.0	29	30
BAYHTR3517LUG	1/3	14.4	49100	34.6	48	50	10.8	36900	30.0	42	40
BAYHTR1517BRK with single circuit power source kit BAYSPEKT201A	1/1	14.4	49100	60.0	80	80	10.8	36900	51.9	70	70
BAYHTR1523BRK with single circuit power source kit BAYSPEKT201A	1/1	19.2	65500	80.0	105	105	14.4	49100	69.2	91	95

Note: * = Motor Amps

^(a) MCA and MOP for circuit 1 contains the motor amps.

Features and Benefits

- Painted metal cabinet with captured foil face insulation
- 2% or less air leakage
- R-4.2 Insulating Value
- Multi-Position UP/Down Flow, Horizontal Left /Right
- ALL Aluminum Coil
- Electric Heaters with polarized plug connections (sold as accessory)
- R-454B Thermal Expansion Valve
- ECM Motor
- Low Voltage Pigtail Connections
- Draw Through Design
- Horizontal Drain pan
- Fused 24V Power
- **5 Year Base Limited Warranty**
- **10 Year Registered Limited Warranty**
- **Optional extended warranty available**

Important: Condensate management kit is required for all 5 ton air handler models installed in downflow applications.

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com.



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