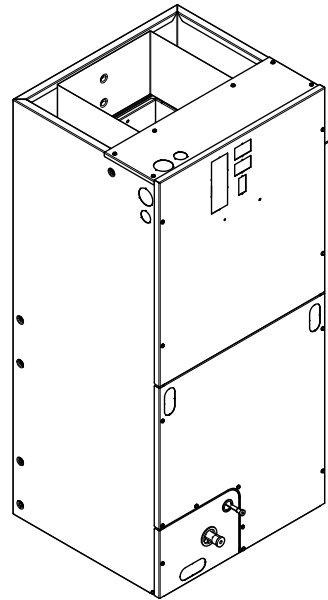


Submittal

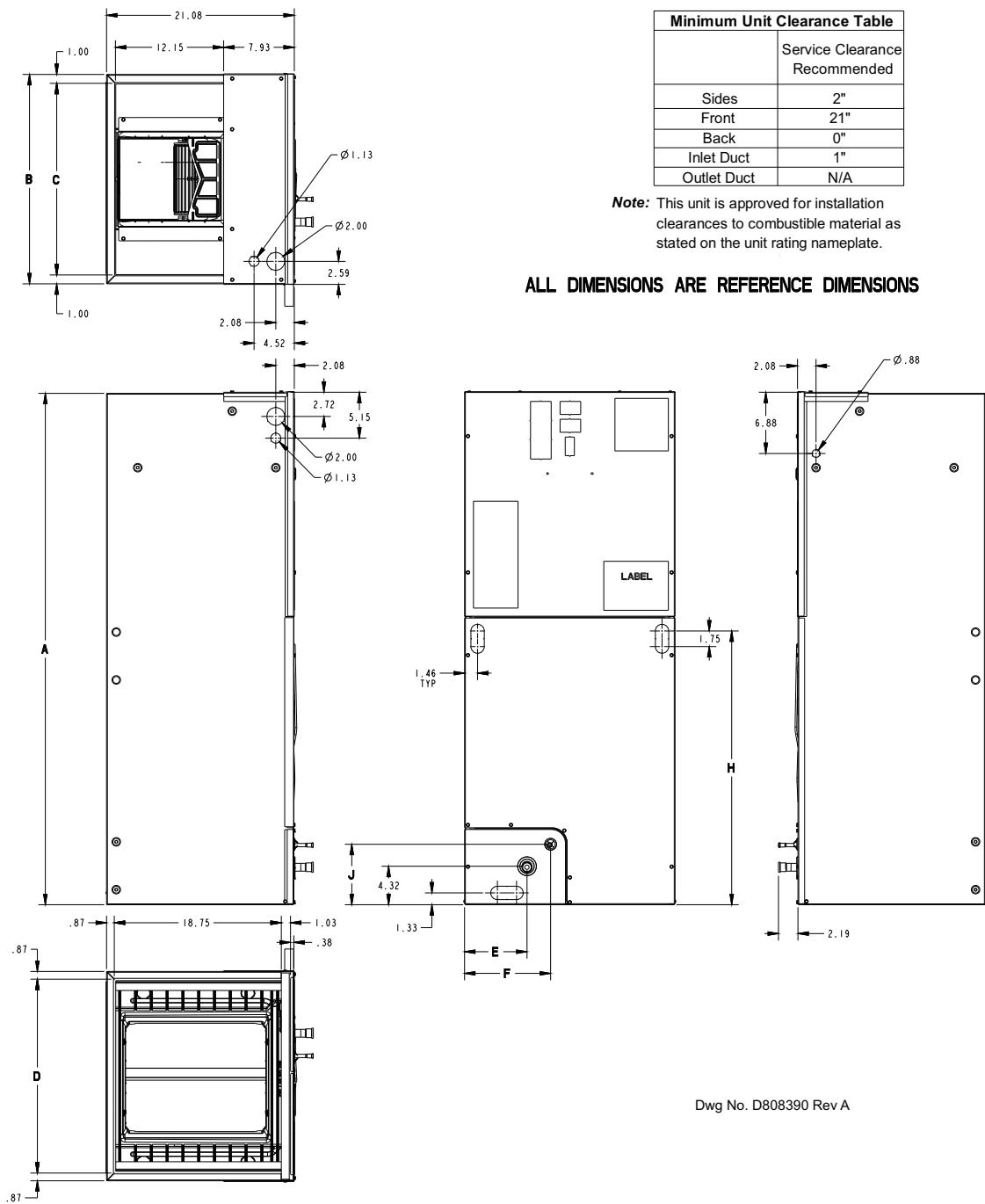
Variable Speed Convertible Air Handler 1.5 – 2 Ton Operation

A5AHV002A1B30AA



The A5AHV 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.

Outline Drawing



PRODUCT DIMENSIONS										
Air Handler Model	A	B	C	D	E	F	H	J	Flow Control	Gas Line Braze
A5AHV002	46.77	18.50	16.50	16.75	5.43	7.08	20.07	5.76	TXV	3/4
All dimensions are in inches										

Product Specifications

MODEL	A5AHV002A1B30AA
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.)	4.13
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 - 16
CFM vs. in. w.g.	See Fan Performance Table
No. Motors — H.P.	1 - 1/3
Motor Speed R.P.M.	Variable
Volts/Ph/Hz	208-230/1/60

F.L. Amps	2.8
FILTER	
Filter Furnished? ^(c)	No
REFRIGERANT	R-454B
Ref. Line Connections	Brazed
Coupling or Conn. Size — in. Gas	3/4
Coupling or Conn. Size — in. Liq.	3/8
DIMENSIONS	H x W x D
Crated (In.)	48-1/4 x 22-1/2 x 25-1/2
Uncrated	46-3/4 x 18-1/2 x 21-1/8
WEIGHT	
Shipping (Lbs.) / Net (Lbs.)	126/117

^(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

A5AHV002A1B30AA		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505LUG	660	600
BAYHTR1508BRK, BAYHTR1508LUG	780	600
BAYHTR1510BRK, BAYHTR1510LUG	780	600
BAYHTR1517BRK	1050	850
BAYHTR3510LUG	780	600
BAYHTR3517LUG	900	850

A5AHV002A1B30AA Airflow Performance with Auxiliary Heat				
Airflow Settings	Dip Switch Settings		Nominal Airflow	See following tables for heater application: - Pressure Drop for Electrical Heaters - Minimum Heating Airflow Matrix (on unit nameplates)
	Switch 7	Switch 8		
Low	ON	ON	601	
Med-Lo	OFF	ON	661	
Med-Hi	ON	OFF	781	
High	OFF	OFF	973	

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 Tables

A5AHV002A1B30AA COOLING AIRFLOW PERFORMANCE, WET COIL, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	353 CFM/ ton	ON	ON	OFF	ON	CFM Watts	524 49	517 83	482 111	418 133	326 148
	NORMAL	401 CFM/ ton	ON	ON	OFF	OFF	CFM Watts	608 60	604 99	580 134	535 167	471 197
	HIGH	451 CFM/ ton	ON	ON	ON	OFF	CFM Watts	683 76	683 119	664 160	626 198	571 233
2	LOW	343 CFM/ ton	OFF	ON	OFF	ON	CFM Watts	693 78	693 122	674 164	638 202	583 237
	NORMAL	390 CFM/ ton	OFF	ON	OFF	OFF	CFM Watts	787 98	791 149	780 197	753 241	712 284
	HIGH	439 CFM/ ton	OFF	ON	ON	OFF	CFM Watts	883 126	889 181	877 233	847 285	801 333
2.5	LOW	300 CFM/ ton	ON	OFF	OFF	ON	CFM Watts	757 91	760 140	746 186	716 229	671 269
	NORMAL (a)	340 CFM/ ton	ON	OFF	OFF	OFF	CFM Watts	863 119	867 173	854 224	826 273	781 319
	HIGH	383 CFM/ ton	ON	OFF	ON	OFF	CFM Watts	950 151	963 213	945 265	896 310	818 345

(a) Factory Default Setting

A5AHV002A1B30AA HEATING AIRFLOW PERFORMANCE, NO FILTER, NO HEATER												
OUTDOOR UNIT SIZE (TONS)	SPEED SETTING	AIRFLOW SETTING	DIP SWITCH SETTING				AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			SW1	SW2	SW3	SW4		0.1	0.3	0.5	0.7	0.9
1.5	LOW	394 CFM/ ton	ON	ON	OFF	ON	CFM Watts	594 53	596 91	568 125	525 160	456 186
	NORMAL	448 CFM/ ton	ON	ON	OFF	OFF	CFM Watts	677 68	681 110	662 152	627 192	573 226
	HIGH	493 CFM/ ton	ON	ON	ON	OFF	CFM Watts	744 81	749 127	739 175	709 219	665 257
2	LOW	393 CFM/ ton	OFF	ON	OFF	ON	CFM Watts	791 91	796 139	792 191	764 238	726 278
	NORMAL	446 CFM/ ton	OFF	ON	OFF	OFF	CFM Watts	892 120	900 171	894 228	865 283	815 325
	HIGH	491 CFM/ ton	OFF	ON	ON	OFF	CFM Watts	987 147	1013 201	983 260	961 322	913 365
2.5	LOW	350 CFM/ ton	ON	OFF	OFF	ON	CFM Watts	878 115	886 166	880 222	851 276	810 321
	NORMAL (a)	398 CFM/ ton	ON	OFF	OFF	OFF	CFM Watts	101 151	989 205	998 264	974 328	926 371
	HIGH	437 CFM/ ton	ON	OFF	ON	OFF	CFM Watts	1108 185	1092 241	1108 300	1072 372	1024 412

(a) Factory Default Setting

1. See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters.
2. Heater model numbers may have additional suffix digits.

Table 2. Electrical Data

A5AHV002A1B30AA HEATER DATA											
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				2.8*	4	15			2.8*	4	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	20
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1517BRK Circuit 1 ^(a)	2/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1517BRK Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR3510LUG	1/3	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYHTR3517LUG	1/3	14.40	49100	34.6	46	50	10.80	36900	30.0	41	45

* = 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
- Variable Speed ECM Motor
- Low Voltage Pigtail Connections
- Draw Through Design
- Horizontal Drain Pan
- Single Color
- Fused 24V Power
- **5 Year Warranty**
- **Optional extended warranty available**

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.

A5AHV002A1B-SUB-1B-EN 26 Apr 2024
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