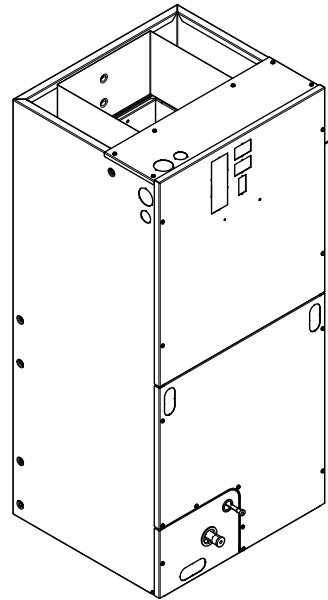


Submittal

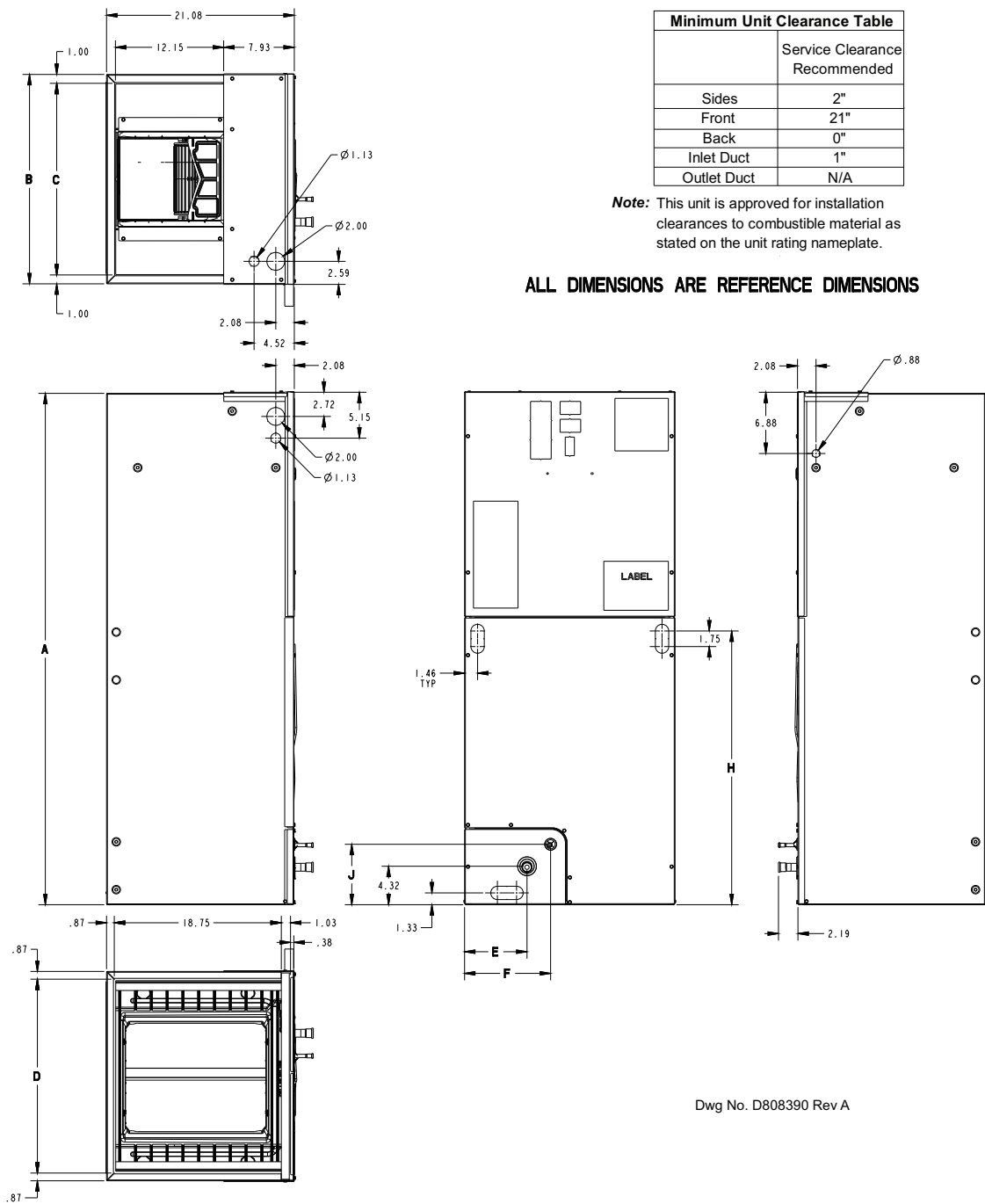
Variable Speed Convertible Air Handler 1.5 – 2.5 Ton Operation

5TEM6B03AV21SA



The 5TEM6 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
5TEM6B03	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	5TEM6B03AV21SA
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 - 1/2
Motor Speed R.P.M.	Variable
Volts/Ph/Hz	208-230/1/60

F.L. Amps	4.3
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

5STEM6B03AV21SAA		
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

5STEM6B03AV21SAA 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

STEM6B03AV21SAA 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	479 39	455 68	440 95	395 121	331 143
	NORMAL	401 CFM/ ton	ON	ON	OFF	OFF	CFM Watts	577 52	553 86	548 119	509 149	454 176
	HIGH	451 CFM/ ton	ON	ON	ON	OFF	CFM Watts	672 67	647 106	652 144	620 179	571 212
2	LOW	343 CFM/ ton	OFF	ON	OFF	ON	CFM Watts	686 69	685 110	667 148	635 184	588 218
	NORMAL	390 CFM/ ton	OFF	ON	OFF	OFF	CFM Watts	796 92	799 137	788 181	763 223	724 264
	HIGH	439 CFM/ ton	OFF	ON	ON	OFF	CFM Watts	892 116	899 165	892 215	872 263	837 312
2.5	LOW	300 CFM/ ton	ON	OFF	OFF	ON	CFM Watts	749 82	751 125	738 166	710 206	668 244
	NORMAL	340 CFM/ ton	ON	OFF	OFF	OFF	CFM Watts	867 109	874 157	866 205	843 252	805 299
	HIGH	383 CFM/ ton	ON	OFF	ON	OFF	CFM Watts	965 139	976 191	972 244	954 298	922 353
3	LOW	310 CFM/ ton	OFF	OFF	OFF	ON	CFM Watts	940 131	950 182	945 234	926 286	892 339
	NORMAL (a)	330 CFM/ ton	OFF	OFF	OFF	OFF	CFM Watts	993 149	956 202	1002 257	985 313	953 370

(a) Factory Default Setting

STEM6B03AV21SAA 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	571 44	574 82	544 113	502 137	441 171
	NORMAL	448 CFM/ ton	ON	ON	OFF	OFF	CFM Watts	677 60	682 99	668 138	618 170	572 206
	HIGH	493 CFM/ ton	ON	ON	ON	OFF	CFM Watts	746 75	752 116	739 160	712 200	674 237
2	LOW	393 CFM/ ton	OFF	ON	OFF	ON	CFM Watts	799 86	806 128	799 175	773 220	740 259
	NORMAL	446 CFM/ ton	OFF	ON	OFF	OFF	CFM Watts	902 111	911 157	912 210	891 260	861 308
	HIGH	491 CFM/ ton	OFF	ON	ON	OFF	CFM Watts	995 131	994 181	986 242	984 293	954 352
2.5	LOW	350 CFM/ ton	ON	OFF	OFF	ON	CFM Watts	887 106	895 152	895 204	873 254	843 300
	NORMAL	398 CFM/ ton	ON	OFF	OFF	OFF	CFM Watts	1004 135	1004 186	998 246	996 298	965 359
	HIGH	437 CFM/ ton	ON	OFF	ON	OFF	CFM Watts	1089 160	1079 215	1064 282	1079 332	1040 408
3	LOW	325 CFM/ ton	OFF	OFF	OFF	ON	CFM Watts	986 131	987 180	984 239	997 291	947 349
	NORMAL (a)	346 CFM/ ton	OFF	OFF	OFF	OFF	CFM Watts	1042 146	1038 198	1029 262	1034 313	1001 380

(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

5TEM6B03AV21SAA 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				4.3*	5	15			4.3*	5	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.84	13100	16.0	25	25	2.88	9800	13.8	23	25
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.68	26200	32.0	45	45	5.76	19700	27.7	40	40
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
BAYHTR1517BRK Circuit 1 ^(a)	2/1	9.60	32800	40.0	55	60	7.20	24600	34.6	49	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	34	35	7.20	24600	20.0	30	30
BAYHTR3517LUG	1/3	14.40	49100	34.6	48	50	10.80	36900	30.0	42	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 Base Limited Warranty**
- **10 Year Registered Limited Warranty**
- **Optional extended warranty available**

About Trane and American Standard Heating and Air Conditioning

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