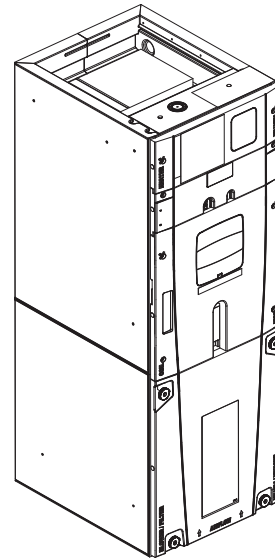


Submittal

Variable Speed Air Handlers with Epoxy Coated Coil 1.5 – 2.5 Ton

5TAMXC03AV31DA



The Diagnostics Mobile App is available by scanning a QR code located inside this unit or by searching for the Link Diagnostics App in your App Store.

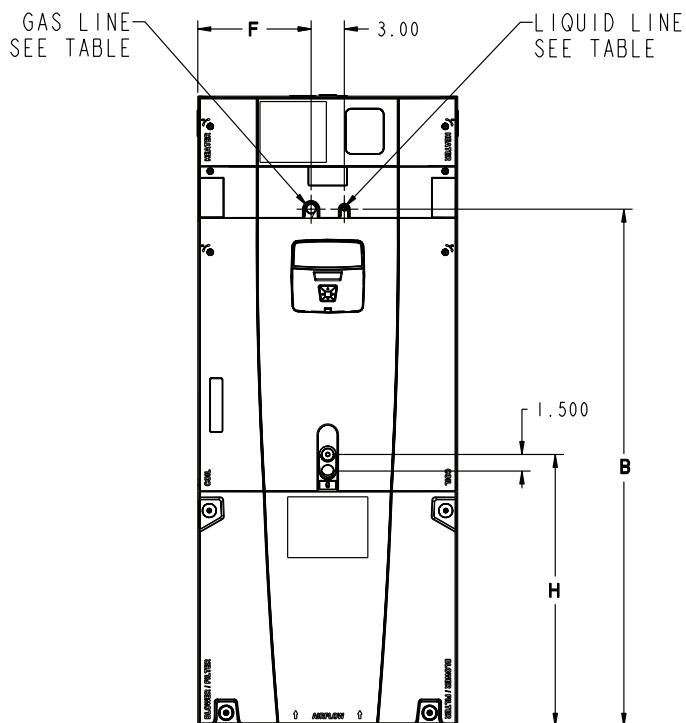
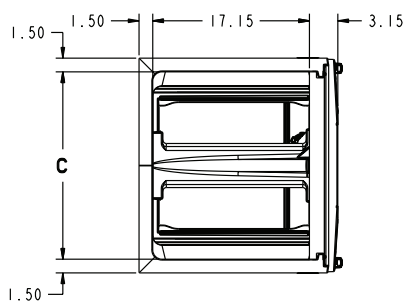
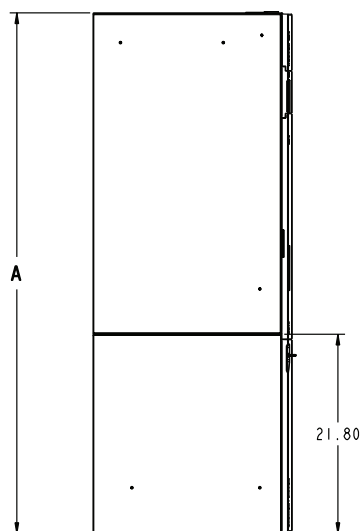
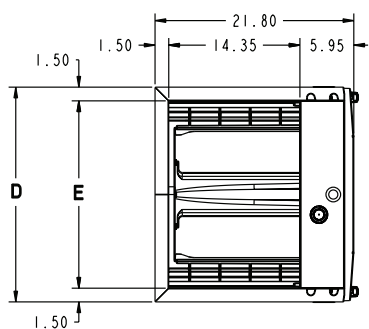
Note: "Graphics in this document are for representation only. Actual model may differ in appearance."

Note: For use with BAYEA series heaters ONLY.

Note: This unit can be used in Link Communicating mode or 24 volt mode.

Note: Need to use Diagnostics App to configure blower delays and accessories etc., in 24 volt mode.

Outline Drawing



MINIMUM UNIT CLEARANCE TABLE	
	SERVICE CLEARANCE (RECOMMENDED)
SIDES	2"
FRONT	21"
BACK	0"
INLET DUCT	
OUTLET DUCT	

NOTE: THIS UNIT IS APPROVED FOR INSTALLATION CLEARANCES TO COMBUSTIBLE MATERIAL AS STATED ON THE UNIT RATING NAMEPLATE

Model Number	A	B	C	D	E	F	H	FLOW CONTROL	GAS LINE BRAZE	LIQ LINE BRAZE
5TAMXC03AV31DA	55.7	45.5	18.4	21.3	18.4	9.2	24.8	EEV	3/4	3/8

Product Specifications

MODEL	5TAMXC03AV31DA
Family Description	R-454B Variable Speed Air Handler with Epoxy Coated Coil
Description	R-454B Variable Speed Air Handler with Epoxy Coated Coil, Epoxy Coated All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 18K - 30K BTUH Capacity
Application Configuration	4-Way
RATED CAPACITY RANGE (BTUH)	18K - 30K
SYSTEM CONTROL TYPE	Link Communicating or 24V
POWER CONN. - V/PH/HZ	208-230/1/60
Max Breaker Size, Without Electric Heater (Amps)	15
Max Breaker Size, With Electric Heater (Amps) ^(a) ^(b)	60
Name Plate	See the name plate
COIL TYPE	Epoxy Coated All-Aluminum Plate Fin
Refrigerant Type	R-454B
Refrigerant Control	EEV
Refrigerant Line Connection - Gas (in.)	3/4
Refrigerant Line Connection - Liquid (in.)	3/8
BLOWER TYPE	Direct Drive Centrifugal
Configuration	Blow Through
Dimensions (Diameter x Width (in.))	11 x 10
Motor Type	Variable Speed
Nominal CFM ^(c)	1000
Speed (RPM)	1050
Volts/Ph/Hz	208-230/1/60
Full Load Amps	3.9
FILTER RACK (YES, NO)	Yes
Dimensions (Length x Width (in.))	20 x 20 x 1
DUCT CONNECTIONS	L x W
Supply (in.)	18.4 x 14.35
Return (in.)	18.4 x 17.15
DRAIN CONN. SIZE (IN.)	3/4 NPT
DIMENSIONS	H x W x D
Uncrated (in.)	55-3/4 x 21-1/4 x 21-3/4
Crated (in.)	57-1/4 x 24-1/4 x 25-3/4
WEIGHT - SHIPPING/NET (LBS.)	150/142

^(a) Maximum overcurrent protection is dependent on which electric heater is installed. See Installation, Operation, and Maintenance manual or unit name plate.

^(b) For CFM versus external static pressure (in. w.c.), refer to Installation, Operation, and Maintenance manual.

^(c) If installing system outside of the United States, accessory electric heaters may not be installed.

Heater Attribute Data

Note: Heater size will be announced when using the resistor that is being provided with the BAYEA heater. Heater can also be configured in the UX360 User Interface or Diagnostics Mobile App.

5TAMXC03AV31DA											
Heater Model No.	No. of Circuits	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampac-ity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	0	-	-	3.9 **	5	15	-	-	3.9 **	5	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYEA(13/AC)05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYEA(13/AC)10++1	1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	34	35	7.20	24600	20.0	29	30
BAYEA(23/BC)15LG3	1-3 PH	14.40	42000	34.6	48	50	10.80	36900	30.0	42	45
BAYEA(23/BC)15BK1 - Circuit 1 ^(a) BAYEA(23/BC)15BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
Note: ** Motor Amps											

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

Note: See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters.

Note: Heater model numbers may have additional suffix digits.

5TAMX Air Flow Performance Tables

5TAMXC03AV31DA AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	290 CFM/ton	CFM Watts	492 / 581 22 / 30	442 / 397 45 / 41	408 / NA 71 / NA	353 / NA 98 / NA	221 / NA 129 / NA	290 CFM/ton	CFM Watts	485 21	437 44	393 69	349 97	300 130
	350 CFM/ton	CFM Watts	576 / 664 30 / 40	553 / 515 58 / 54	527 / NA 87 / NA	493 / NA 117 / NA	472 / NA 150 / NA	350 CFM/ton	CFM Watts	574 29	545 56	517 85	489 115	457 146
	400 CFM/ton	CFM Watts	644 / 730 38 / 49	633 / 598 70 / 65	612 / 403 102 / 72	590 / NA 134 / NA	563 / NA 167 / NA	400 CFM/ton	CFM Watts	643 37	624 67	605 99	583 132	559 165
	450 CFM/ton	CFM Watts	711 / 794 47 / 60	708 / 673 83 / 77	691 / 510 118 / 86	678 / NA 154 / NA	656 / NA 189 / NA	450 CFM/ton	CFM Watts	709 45	698 80	684 115	669 151	649 186
	290 CFM/ton	CFM Watts	627 / 713 36 / 47	611 / 576 66 / 62	589 / 369 98 / 68	568 / NA 130 / NA	542 / NA 163 / NA	290 CFM/ton	CFM Watts	625 35	603 64	582 95	559 127	533 160
2 tons †	350 CFM/ton	CFM Watts	734 / 815 51 / 64	730 / 698 87 / 82	717 / 541 124 / 91	705 / NA 161 / NA	684 / NA 197 / NA	350 CFM/ton	CFM Watts	731 49	722 84	710 120	696 157	677 193
	400 † CFM/ton	CFM Watts	822 / 898 66 / 81	824 / 792 107 / 101	817 / 657 149 / 112	811 / NA 231 / NA	797 / NA 231 / NA	400 (a) CFM/ton	CFM Watts	817 63	815 103	811 145	801 186	788 226
	450 CFM/ton	CFM Watts	910 / 982 85 / 102	916 / 884 131 / 123	916 / 763 178 / 136	914 / 610 226 / 140	904 / NA 270 / NA	450 CFM/ton	CFM Watts	902 80	907 126	908 172	904 219	895 263
	290 CFM/ton	CFM Watts	755 / 860 54 / 73	753 / 749 92 / 91	742 / 606 130 / 102	732 / 397 168 / 104	712 / NA 205 / NA	290 CFM/ton	CFM Watts	753 52	745 88	735 126	723 164	706 201
	350 CFM/ton	CFM Watts	887 / 985 80 / 102	893 / 887 125 / 124	891 / 767 170 / 137	888 / 614 217 / 141	876 / NA 260 / NA	350 CFM/ton	CFM Watts	881 75	884 120	884 165	879 210	868 253
2.5 tons	400 CFM/ton	CFM Watts	998 / 1094 107 / 134	1010 / 1003	1017 / 895 213 / 173	1018 / 765 266 / 179	1008 / NA 315 / NA	400 CFM/ton	CFM Watts	989 100	1001 152	1008 205	1008 257	1000 306
	450 CFM/ton	CFM Watts	1116 / 1212	1135 / 1126	1147 / 1027	1148 / 911 325 / 227	1134 / NA 376 / NA	450 CFM/ton	CFM Watts	1104 133	1124 194	1136 255	1139 314	1128 366
3 tons	290 CFM/ton	CFM Watts	883 / 981 79 / 101	888 / 882 124 / 122	887 / 762 169 / 136	881 / 608 214 / 140	870 / NA 257 / NA	290 CFM/ton	CFM Watts	877 74	880 118	879 164	874 208	863 252
	350 CFM/ton	CFM Watts	1043 / 1140	1059 / 1051	1068 / 947 233 / 190	1069 / 823 288 / 197	1059 / NA 339 / NA	350 CFM/ton	CFM Watts	1034 112	1049 168	1058 224	1061 279	1053 330
	400 CFM/ton	CFM Watts	1190 / 1304	1214 / 1221	1226 / 1126	1223 / 1016	1201 / 886 414 / 261	400 CFM/ton	CFM Watts	1177 157	1201 224	1215 291	1215 352	1198 403
	450 CFM/ton	CFM Watts	1355 / 1471	1376 / 1391	1375 / 1302	1353 / 1201	1296 / 1086	450 CFM/ton	CFM Watts	1338 221	1363 299	1368 369	1350 427	1314 472
			241 / 282	318 / 311	386 / 333	441 / 345								
† Factory Setting Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.								• Torque mode will reduce airflow when static is above approximately 0.35" water column. • All heating modes default to Constant CFM. • Cooling airflow values are with wet coil, no filter						
5TAMXC03AV31DA Minimum Heating Airflow Settings														
MODEL NO.	BAYEAAAC04BK1 BAYEAAAC04LG1 BAYEAAAC05BK1 BAYEAAAC05LG1	BAYEAAAC08BK1 BAYEAAAC08LG1	BAYEAAAC10BK1 BAYEAAAC10LG1	BAYEAAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1							
TAMXB0B30	723/808	723/1020	765/1020	680/808	765/1063	850/1105	-							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE														

(a) Factory heating default setting is 430 CFM/ton

Features and Benefits

- Unique cabinet design
 - 2% or less air leakage
 - Precision applied — durable door seals
 - Specially designed air seal around refrigerant, condensate and conduit connections
 - Double wall foamed cabinet system
 - R-4.2 Insulating Value (Avg Insulating Value R-8.2)
 - No loose fiber design
 - Smooth cleanable interior design
 - Sweat eliminating design
 - Composite foamed cabinet doors
 - Water proof cabinet design
 - Integrated horizontal drain pans
 - Modular cabinet
- Multi-position up/down flow horizontal left/right
- Link™ Communicating or 24V Control
- Side return option (sold as accessory)
- Pre-marked Conduit Connection Locations
- Alert code notification
- Low voltage terminal connection point
- Phillips head door fasteners
- **Vortica®** blower with polarized plug connections and integrated slide deck for easy removal
- Aluminum coil with integrated slide deck for easy removal and polarized plug connections on coil EEV
- Patented enhanced coil fin
- Electronic Expansion Valve (EEV) with low ambient and low superheat compressor protection
- Slide in electric heaters with polarized plug connections (sold as accessory)
- Slide in hot water coils with polarized plug connections (sold as accessory)
- UVC light kit with safety switch and polarized plug connections (sold as accessory)
- Labeled panels and connections
- Molded in 1" standard filter rail
- Variable speed ECM motor
- Soft start fan motor operation
- **Comfort R™** mode
- Built in fan delay modes
- Maximum width of 23.5"
- Compact 20.8" depth with doors removed
- Fused 24V power
- **5 Year Warranty**
- **10 Year Warranty Registered**
- **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.



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