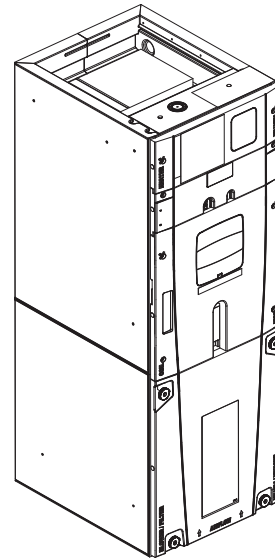


Submittal

Variable Speed Air Handlers with Epoxy Coated Coil 2 — 3.5 Ton

5TAMXD04AV31DA



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.

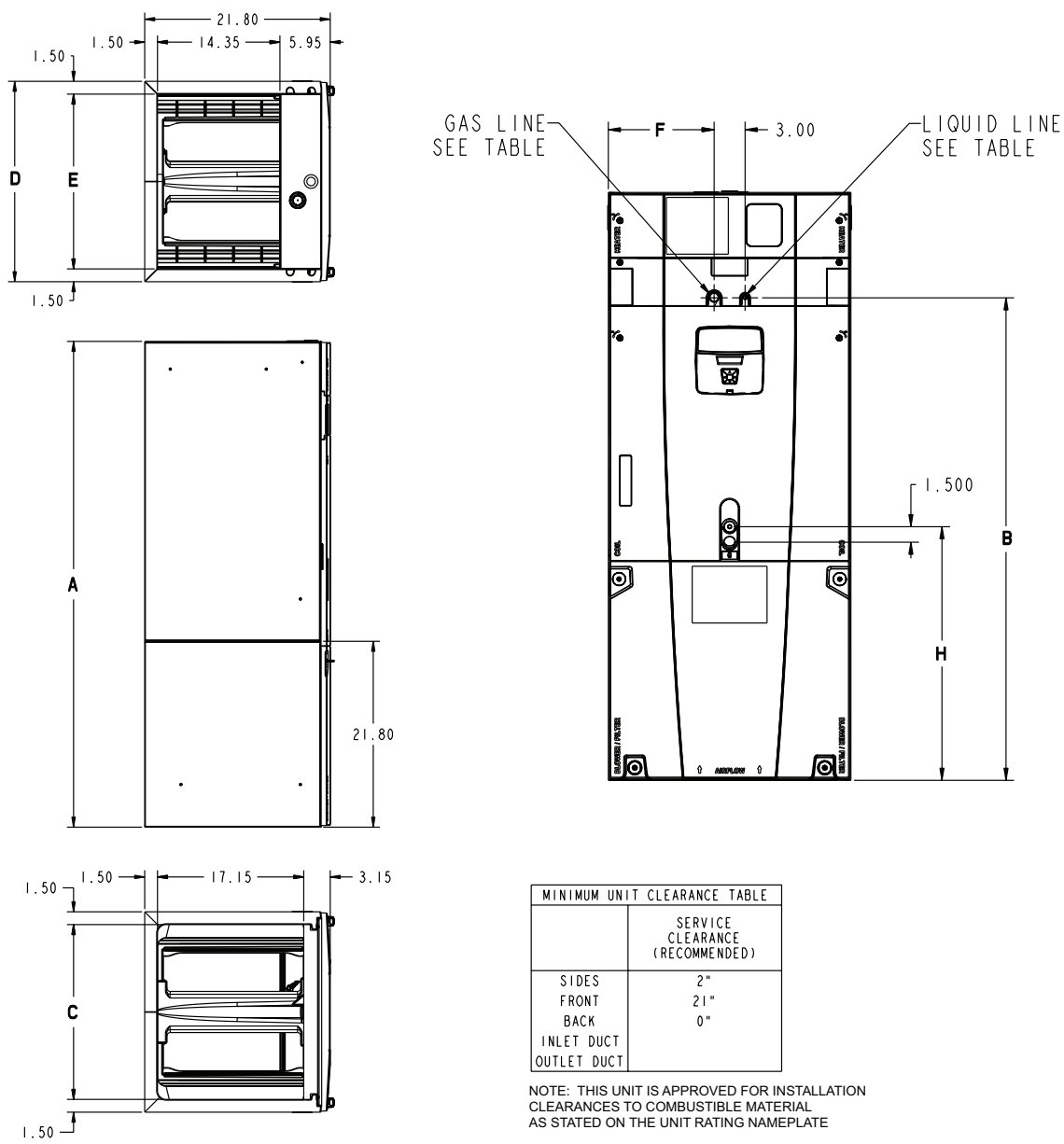
Note: "Graphics in this document are for representation only. Actual model may differ in appearance."

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
5TAMXD04AV31DA	56.9	46.7	20.5	23.5	20.5	10.3	24.2	EEV	7/8	3/8

Product Specifications

MODEL	5TAMXD04AV31DA
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, 24K - 42K BTUH Capacity
Application Configuration	4-Way
RATED CAPACITY RANGE (BTUH)	24K - 42K
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.)	7/8
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)	1200
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.))	22 x 20 x 1
DUCT CONNECTIONS	L x W
Supply (in.)	20.5 x 14.35
Return (in.)	20.5 x 17.15
DRAIN CONN. SIZE (IN.)	3/4 NPT
DIMENSIONS	H x W x D
Uncrated (in.)	56-7/8 x 23-1/2 x 21-3/4
Crated (in.)	58-1/2 x 27-1/2 x 25-3/4
WEIGHT - SHIPPING/NET (LBS.)	163/153

^(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.

5TAMXD04AV31DA											
Heater Model No.	No. of Circuits	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	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	33	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
BAYEA(23/BC)20BK1 - Circuit 1 BAYEA(23/BC) 20BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
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

5TAMXD04AV31DA AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / 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
2 tons	290 CFM/ton	CFM Watts	605 / 747 31 / 48	573 / 565 59 / 58	553 / 306 88 / 62	548 / NA 120 / NA	546 / NA 153 / NA	290 CFM/ton	CFM Watts	606 31	574 58	557 87	551 119	549 152
	370 CFM/ton	CFM Watts	755 / 880 50 / 70	745 / 738 85 / 85	737 / 575 121 / 93	738 / 367 160 / 97	735 / NA 197 / NA	350 CFM/ton	CFM Watts	720 43	705 77	695 111	694 148	691 184
	400 CFM/ton	CFM Watts	810 / 929 58 / 80	804 / 797 97 / 96	800 / 650 136 / 106	802 / 478 176 / 111	802 / 231 216 / 120	400 CFM/ton	CFM Watts	810 56	805 95	800 134	803 174	802 214
	450 CFM/ton	CFM Watts	900 / 1011 75 / 98	900 / 893 118 / 117	902 / 764 162 / 129	905 / 624 207 / 136	906 / 462 251 / 140	450 CFM/ton	CFM Watts	900 72	900 115	903 159	906 204	907 248
	290 CFM/ton	CFM Watts	742 / 891 48 / 72	729 / 752 82 / 87	722 / 592 118 / 96	721 / 394 155 / 99	720 / NA 193 / NA	290 CFM/ton	CFM Watts	742 46	731 81	722 117	722 154	720 191
2.5 tons	370 CFM/ton	CFM Watts	922 / 1055 80 / 109	923 / 942 124 / 128	927 / 820 170 / 142	930 / 690 215 / 150	931 / 546 260 / 154	350 CFM/ton	CFM Watts	877 68	877 110	876 152	880 196	880 239
	400 CFM/ton	CFM Watts	989 / 1118 95 / 127	995 / 1012 143 / 148	1002 / 899 193 / 163	1008 / 779 242 / 173	1010 / 652 290 / 177	400 CFM/ton	CFM Watts	989 90	995 139	1000 188	1008 258	1008 285
	450 CFM/ton	CFM Watts	1103 / 1228 125 / 162	1117 / 1131 181 / 185	1129 / 1028 238 / 203	1137 / 921 294 / 215	1137 / 809 346 / 221	450 CFM/ton	CFM Watts	1102 119	1116 175	1127 231	1137 288	1138 340
	290 CFM/ton	CFM Watts	872 / 1009 70 / 97	871 / 890 111 / 116	871 / 761 154 / 128	874 / 620 197 / 135	874 / 457 240 / 139	290 CFM/ton	CFM Watts	871 67	872 109	871 151	874 195	875 237
	370 † CFM/ton	CFM Watts	1089 / 1214 121 / 157	1102 / 1116 176 / 180	1114 / 1013 232 / 198	1121 / 905 287 / 209	1122 / 791 339 / 215	350 CFM/ton	CFM Watts	1033 101	1043 152	1051 204	1059 257	1061 307
3 tons †	400 CFM/ton	CFM Watts	1175 / 1298 147 / 188	1193 / 1205 208 / 212	1208 / 1107 270 / 231	1215 / 1006 329 / 244	1211 / 899 382 / 251	400 (a) CFM/ton	CFM Watts	1171 139	1191 200	1205 262	1215 322	1212 376
	450 CFM/ton	CFM Watts	1329 / 1447 204 / 253	1353 / 1361 276 / 279	1366 / 1270 345 / 299	1363 / 1176 406 / 313	1343 / 1077 456 / 321	450 CFM/ton	CFM Watts	1324 192	1349 264	1364 334	1364 396	1347 448
	290 CFM/ton	CFM Watts	1002 / 1131 98 / 130	1009 / 1026 147 / 152	1017 / 914 198 / 167	1023 / 797 248 / 177	1024 / 671 296 / 182	290 CFM/ton	CFM Watts	997 92	1010 143	1016 197	1022 248	1027 293
	370 CFM/ton	CFM Watts	1270 / 1391 181 / 227	1293 / 1302 249 / 252	1308 / 1210 316 / 272	1311 / 1113 377 / 286	1297 / 1012 429 / 293	350 CFM/ton	CFM Watts	1196 146	1217 210	1231 272	1241 334	1234 387
	400 CFM/ton	CFM Watts	1383 / 1499 227 / 278	1407 / 1414 303 / 305	1416 / 1325 372 / 325	1406 / 1233 431 / 340	1380 / 1136 478 / 348	400 CFM/ton	CFM Watts	1379 214	1404 289	1415 360	1330 378	1390 473
3.5 tons	450 CFM/ton	CFM Watts	1579 / 1669 326 / 375	1583 / 1587 402 / 402	1567 / 1502 464 / 423	1474 / 1413 475 / 437	1357 / 1320 468 / 444	450 CFM/ton	CFM Watts	1499 268	1508 342	1586 460	1504 478	1390 472
	• † 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.													

5TAMXD04AV31DA Minimum Heating Airflow Settings							
MODEL NO.	BAYEAAAC04BK1 BAYEAAAC04LG1 BAYEAAAC05BK1 BAYEAAAC05LG1	BAYEAAAC08BK1 BAYEAAAC08LG1	BAYEAAAC10BK1 BAYEAAAC10LG1	BAYEAAAC10LG3	BAYEABC15BK1	BAYEACB15LG3	BAYEABC20BK1
TAMXB0C36	876/979	876/1236	927/1236	824/979	927/1288	1030/1339	1236/1442
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE							

(a) Factory heating default setting is 420 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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