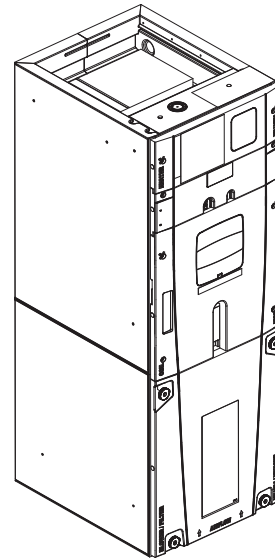


Submittal

Variable Speed Air Handlers with Epoxy Coated Coil 1.5 – 2 Ton

5TAMXB02AV21DA



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.

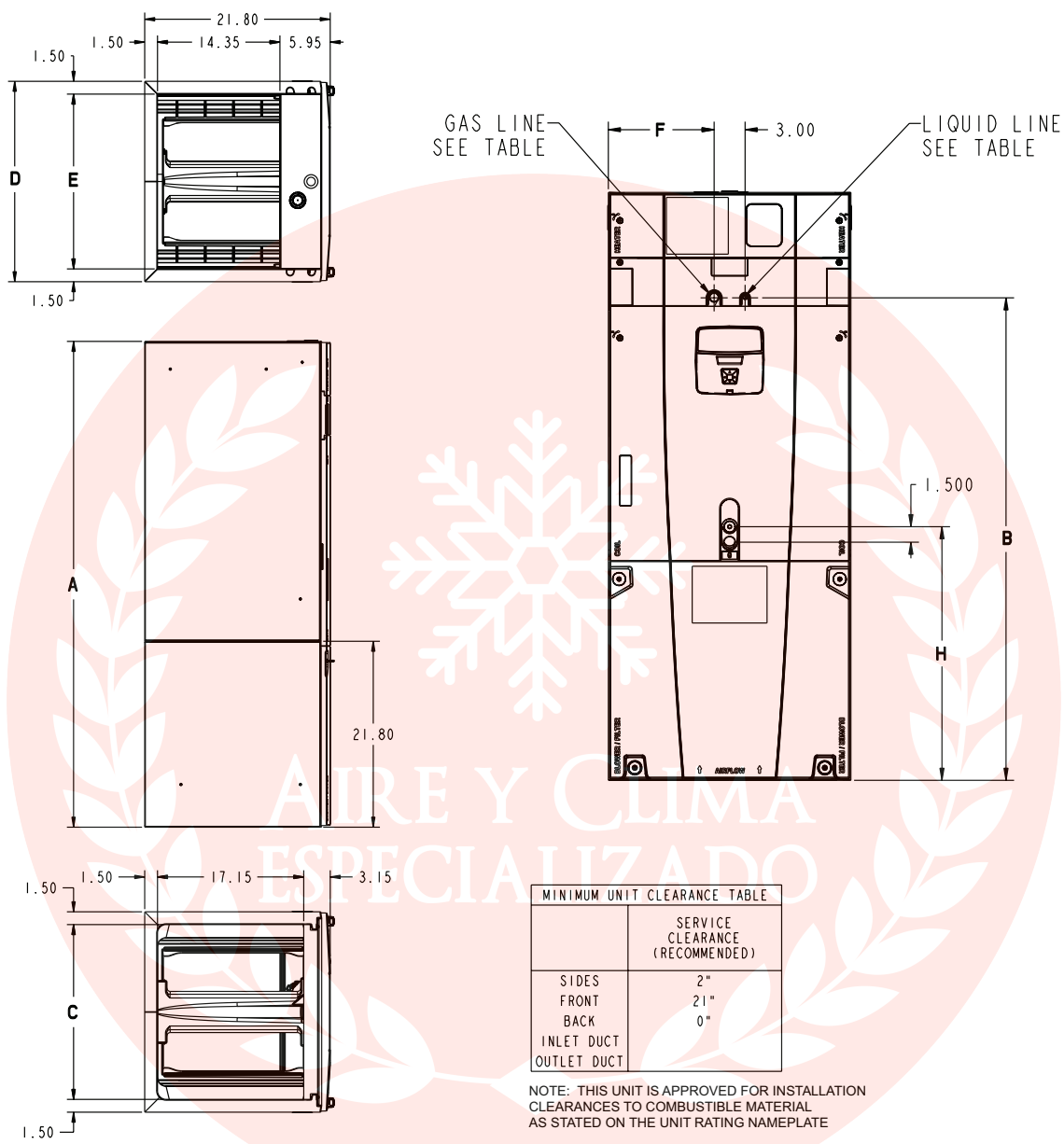
Note: "Graphics in this document are for representation only. Actual model may differ in appearance."

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



Model Number	A	B	C	D	E	F	H	FLOW CONTROL	GAS LINE BRAZE	LIQ LINE BRAZE
5TAMXB02AV21DA	49.9	39.6	14.5	17.5	14.5	7.3	24.4	EEV	3/4	3/8

Product Specifications

MODEL	5TAMXB02AV21DA
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 - 24K BTUH Capacity
Application Configuration	4-Way
RATED CAPACITY RANGE (BTUH)	18K - 24K
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 8
Motor Type	Variable Speed
Nominal CFM ^(c)	800
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.))	16 x 20 x 1
DUCT CONNECTIONS	L x W
Supply (in.)	14.5 x 14.35
Return (in.)	14.5 x 17.15
DRAIN CONN. SIZE (IN.)	3/4 NPT
DIMENSIONS	H x W x D
Uncrated (in.)	49-7/8 x 17-1/2 x 21-3/4
Crated (in.)	51-3/8 x 20-1/2 x 25-3/4
WEIGHT - SHIPPING/NET (LBS.)	126/120

^(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.

5TAMXB02AV21DA											
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 ^(a)	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

Note: ** Motor Amps

^(a) Heater not qualified for 208V when installed in horizontal left position without Heat Pump

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

5TAMXB02AV21DA 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	407 / 546	430 / 403	398 / NA	347 / NA	255 / NA	290 CFM/ton	CFM Watts	416	426	401	330	291
	350 CFM/ton	CFM Watts	534 / 630	549 / 531	542 / 360	509 / NA	445 / NA	350 CFM/ton	CFM Watts	532	550	542	507	434
	400 CFM/ton	CFM Watts	617 / 697	633 / 617	632 / 501	604 / NA	559 / NA	400 CFM/ton	CFM Watts	660	680	679	658	614
	450 CFM/ton	CFM Watts	54 / 72	90 / 86	125 / 96	156 / NA	181 / NA	450 CFM/ton	CFM Watts	62	99	136	169	197
	290 CFM/ton	CFM Watts	593 / 680	613 / 595	607 / 470	583 / 208	527 / 132	290 CFM/ton	CFM Watts	593	613	608	582	527
2 tons †	350 CFM/ton	CFM Watts	717 / 783	733 / 717	733 / 632	714 / 519	678 / 355	350 CFM/ton	CFM Watts	714	734	734	716	679
	400 † CFM/ton	CFM Watts	810 / 868	827 / 811	827 / 740	813 / 652	782 / 543	400 (a) CFM/ton	CFM Watts	862	881	884	874	849
	450 CFM/ton	CFM Watts	903 / 954	918 / 902	920 / 839	909 / 764	884 / 674	450 CFM/ton	CFM Watts	899	917	921	912	889
	290 CFM/ton	CFM Watts	144 / 165	192 / 182	238 / 201	280 / 215	316 / 224	290 CFM/ton	CFM Watts	136	184	231	273	310
	350 CFM/ton	CFM Watts	741 / 820	757 / 759	757 / 681	739 / 582	705 / 452	350 CFM/ton	CFM Watts	738	757	758	742	707
2.5 tons	400 CFM/ton	CFM Watts	86 / 110	126 / 127	166 / 141	202 / 152	232 / 159	400 CFM/ton	CFM Watts	81	122	162	198	229
	450 CFM/ton	CFM Watts	880 / 947	896 / 895	896 / 832	885 / 757	859 / 665	450 CFM/ton	CFM Watts	876	895	898	888	864
	290 CFM/ton	CFM Watts	134 / 162	182 / 181	226 / 198	267 / 211	302 / 221	290 CFM/ton	CFM Watts	127	174	220	261	297
	400 CFM/ton	CFM Watts	996 / 1059	1011 / 1011	1014 / 954	1006 / 887	985 / 807	400 CFM/ton	CFM Watts	1064	1083	1089	1084	1066
	450 CFM/ton	CFM Watts	1188 / 220	241 / 240	291 / 257	336 / 271	375 / 280	450 CFM/ton	CFM Watts	215	272	326	375	418
3 tons	290 CFM/ton	CFM Watts	1120 / 1180	1135 / 1134	1137 / 1081	1129 / 1019	1108 / 946	290 CFM/ton	CFM Watts	1115	1133	1139	1133	1116
	350 CFM/ton	CFM Watts	260 / 297	319 / 317	373 / 334	422 / 347	463 / 355	350 CFM/ton	CFM Watts	244	304	360	410	453
	400 CFM/ton	CFM Watts	875 / 943	891 / 891	892 / 891	880 / 751	854 / 659	400 CFM/ton	CFM Watts	871	890	894	883	859
	450 CFM/ton	CFM Watts	132 / 160	179 / 179	224 / 196	265 / 209	300 / 218	450 CFM/ton	CFM Watts	125	172	217	259	295
	290 CFM/ton	CFM Watts	1045 / 1106	1060 / 1059	1063 / 1004	1055 / 939	1035 / 862	290 CFM/ton	CFM Watts	1040	1058	1064	1059	1041
3 tons	350 CFM/ton	CFM Watts	215 / 248	270 / 268	321 / 285	369 / 299	409 / 308	350 CFM/ton	CFM Watts	202	257	310	358	401
	400 CFM/ton	CFM Watts	1200 / 1257	1212 / 1211	1212 / 1159	1200 / 1099	1129 / 1030	400 CFM/ton	CFM Watts	1291	1302	1300	1220	1138
	450 CFM/ton	CFM Watts	315 / 354	376 / 374	432 / 390	480 / 402	481 / 409	450 CFM/ton	CFM Watts	368	432	487	478	470
	290 CFM/ton	CFM Watts	1358 / 1403	1333 / 1359	1256 / 1308	1177 / 1251	1095 / 1187	290 CFM/ton	CFM Watts	1355	1360	1286	1208	1128
	400 CFM/ton	CFM Watts	447 / 484	482 / 502	472 / 517	466 / 527	460 / 531	400 CFM/ton	CFM Watts	422	483	476	468	462
† 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 0.3" water column. - All heating modes default to Constant CFM. - Cooling airflow values are with wet coil, no filter														
5TAMXB02AV21DA Minimum Heating Airflow Settings														
MODEL NO.	BAYEAAAC04BK1 BAYEAAAC04LG1 BAYEAAAC05BK1 BAYEAAAC05LG1	BAYEAAAC08BK1 BAYEAAAC08LG1	BAYEAAAC10BK1 BAYEAAAC10LG1	BAYEAAAC10LG3	BAYEABAC15BK1 BAYEABAC15LG3	BAYEABC20BK1								
TAMXB0A24	638/713	638/900	675/900	600/713	-	-								
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE FOR APPROVED COMBINATIONS														

(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**

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