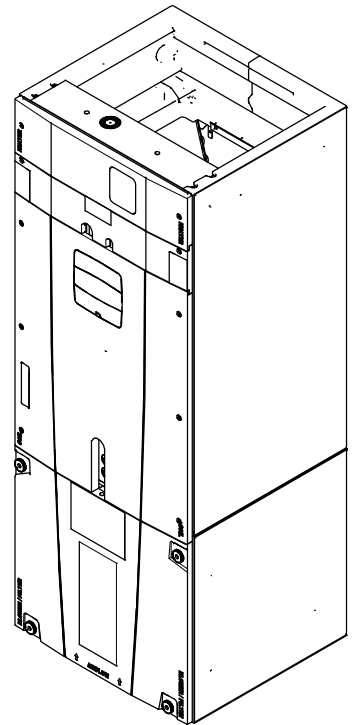


Specification

2-1/2 Ton Convertible Air Handler
TAM7A0B30H21SD — Standard Coil
TAM7A0B30H21EA — Black Epoxy Coil

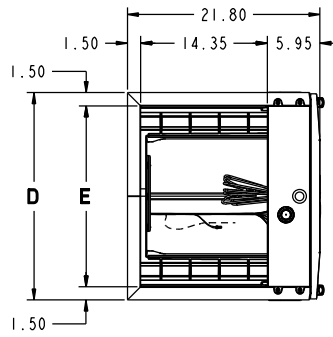


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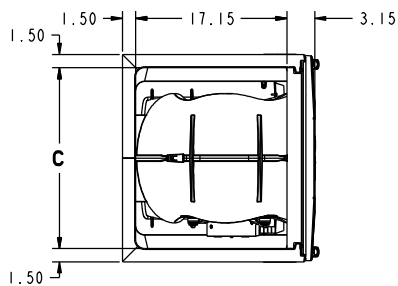
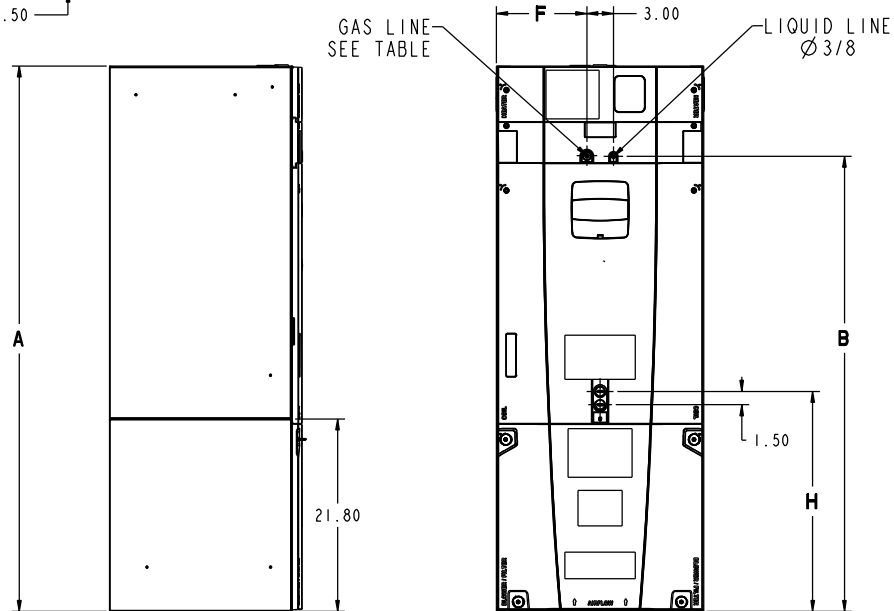
▲ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

Outline Drawing



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



MODEL NO.	A	B	C	D	E	F	H	FLOW CONTROL	GAS LINE BRAZE	LIQ LINE BRAZE
TAM7A0B30H21SD TAM7A0B30H21EA	55.7	45.5	18.4	21.3	18.4	9.2	24.8	EEV	3/4	3/8

PRODUCT SPECIFICATIONS

MODEL	TAM7A0B30H21SD TAM7A0B30H21EA
RATED VOLTS/PH/HZ.	200-230/1/60
RATINGS (a)	See O.D. Specifications
INDOOR COIL — Type	Plate Fin
Rows — F.P.I.	3 — 14
Face Area (sq. ft.)	5.04
Tube Size (in.)	3/8
Refrigerant Control	EEV
Drain Conn. Size (in.) ^(b)	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing
INDOOR FAN — Type	Centrifugal
Diameter-Width (In.)	11 x 10
No. Used	1
Drive — No. Speeds	Direct Variable
CFM vs. in. w.g.	See Fan Performance Table
No. Motors — H.P.	1 — 1/2
Motor Speed RPM	Variable ECM
Volts/Ph/Hz	208-230/1/60
F.L. Amps	3.0 — 3.9 (c)
FILTER	
Filter Furnished?	No
Type Recommended	Throwaway
No.-Size-Thickness	1 — 20 x 20 — 1 in.
REFRIGERANT	R-410A
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.)	56-1/2 x 23 x 23-1/2
Uncrated	55-11/16 x 21-5/16 x 21-3/4
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	150/138

(a) These Air Handlers are AHRI certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240).

(b) 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)

(c) Check motor nameplate for actual FLA.

TAM7A0B30H21SD, TAM7A0B30H21EA											
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	-	-	3.0 **	4	15	-	-	3.0 **	4	15
BAYEVAC04++1	1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	25
BAYEVAC05++1	1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25
BAYEVAC08++1	1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40
BAYEVAC10++1	1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYEVAC15LG3	1-3 PH	14.40	42000	34.6	47	50	10.80	36900	30.0	41	45
BAYEVBC15BK1-Circuit 1 ^(a)	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYEVBC15BK1-Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25

1. ** Motor Amps

2. See Air Handler nameplate for additional information.

3. Heater model numbers may have additional suffix digits.

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

TAM7A0B30 AIRFLOW PERFORMANCE												CONSTANT CFM MODE / CONSTANT TORQUE MODE											
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING			EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)			HEATING AIRFLOW SETTING			AIRFLOW POWER			EXTERNAL STATIC PRESSURE										
	AIRFLOW POWER	CFM/ton	Watts	0.1	0.3	0.5	0.7	0.9	CFM/ton	Watts	CFM	0.1	0.3	0.5	0.7	0.9							
1.5 tons	360	CFM/ton	Watts	581/685	560/538	533/299	509/NA	482/NA	390	CFM	630	609	588	566	540								
				30/41	58/56	87/63	118/NA	150/NA	CFM/ton	Watts	35	65	96	128	161								
	380	CFM/ton	Watts	618/711	593/572	569/359	547/NA	524/NA	410	CFM	657	639	621	601	578								
				33/45	62/60	93/68	125/NA	158/NA	CFM/ton	Watts	38	70	102	136	169								
	400	CFM/ton	Watts	645/738	624/605	604/410	584/NA	562/NA	430	CFM	683	669	653	636	614								
				37/49	67/65	99/73	132/NA	166/NA	CFM/ton	Watts	42	75	109	143	177								
2 tons †	420	CFM/ton	Watts	659/751	639/621	620/434	602/NA	581/NA	450	CFM	709	698	685	669	649								
				38/50	69/67	102/76	136/NA	170/NA	CFM/ton	Watts	45	80	115	151	186								
	360	CFM/ton	Watts	750/840	741/726	731/575	719/344	704/NA	390	CFM	800	797	791	781	766								
				51/66	87/85	125/96	163/99	200/NA	CFM/ton	Watts	60	99	139	180	219								
	380	CFM/ton	Watts	784/874	779/764	771/622	762/419	748/NA	410	CFM	834	834	830	822	810								
				57/72	95/92	134/104	174/107	213/NA	CFM/ton	Watts	66	107	150	192	233								
2.5 tons	400 †	CFM/ton	Watts	818/908	816/802	811/667	803/484	792/NA	430	CFM	868	871	869	864	853								
				62/79	103/100	144/113	186/117	227/NA	CFM/ton	Watts	73	116	161	205	248								
	420	CFM/ton	Watts	835/924	834/820	831/689	824/513	813/180	450	CFM	902	908	908	905	895								
				66/83	107/104	150/118	192/122	234/132	CFM/ton	Watts	80	126	172	219	263								
	360	CFM/ton	Watts	904/1017	908/921	909/804	907/658	898/454	390	CFM	967	977	982	982	974								
				80/105	125/129	172/144	219/150	264/148	CFM/ton	Watts	95	145	196	247	295								
2.5 tons	380	CFM/ton	Watts	947/1061	955/968	959/856	958/718	951/538	410	CFM	1012	1025	1033	1034	1027								
				89/117	138/142	188/158	237/165	285/163	CFM/ton	Watts	106	160	214	268	318								
	400	CFM/ton	Watts	991/1106	1002/1016	1009/908	1010/779	1003/614	430	CFM	1057	1074	1084	1087	1078								
				100/131	152/156	205/174	257/182	307/180	CFM/ton	Watts	119	176	234	290	342								
	420	CFM/ton	Watts	1013/1129	1026/1040	1034/934	1036/808	1029/650	450	CFM	1104	1124	1136	1139	1128								
				106/138	159/164	214/182	268/190	318/189	CFM/ton	Watts	133	194	255	314	366								
3 tons	360	CFM/ton	Watts	1063/1182	1080/1095	1091/993	1094/873	1085/727	390	CFM	1147	1170	1184	1185	1170								
				120/156	177/182	236/201	292/211	344/210	CFM/ton	Watts	147	211	276	336	389								
	380	CFM/ton	Watts	1120/1241	1140/1157	1153/1059	1156/945	1444/809	410	CFM	1208	1233	1247	1245	1223								
				137/178	199/205	262/225	321/235	374/236	CFM/ton	Watts	168	238	306	367	418								
	400	CFM/ton	Watts	1179/1304	1202/1221	1216/1127	1216/1018	1198/890	430	CFM	1271	1298	1309	1300	1271								
				157/203	224/231	290/252	351/263	403/265	CFM/ton	Watts	193	267	337	398	446								
3 tons	420	CFM/ton	Watts	1210/1337	1233/1255	1247/1162	1245/1055	1224/931	450	CFM	1338	1363	1368	1350	1314								
				168/217	237/246	305/267	306/279	417/281	CFM/ton	Watts	221	299	369	427	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

MINIMUM HEATER AIRFLOW CFM — HEATER MATRIX

MODEL NO.	BAYEVAC04BK1 BAYEVAC04LG1 BAYEVAC05BK1 BAYEVAC05LG1	BAYEVAC08BK1 BAYEVAC08LG1	BAYEVAC10BK1 BAYEVAC10LG1	BAYEVAC10LG3	BAYEVCB15LG3	BAYEVC20BK1
TAM7A0B30	723/808	723/1020	765/1020	680/808	765/1063	850/1105

WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE FOR APPROVED COMBINATIONS

Note: Minimum auxiliary heating airflow is automatically configured by the air handler model and the auxiliary heater model number. This is not field adjustable.

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
- Side return option (sold as accessory)
- Control board protection pocket built into cabinet wall
- Pre-marked Conduit Connection Locations
- Alert port to view control board codes without door removal
- 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
- Dual refrigerant compatible as shipped
- 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
- Safety door switch
- **5 Year Warranty**
- **10 Year Warranty Registered**
- **Optional Extended Warranty Available**



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