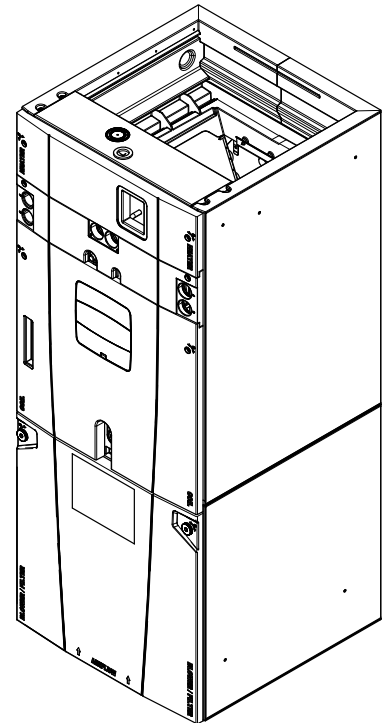


# Specification

## 3 Ton Convertible Air Handler TAM7A0C36H31SC

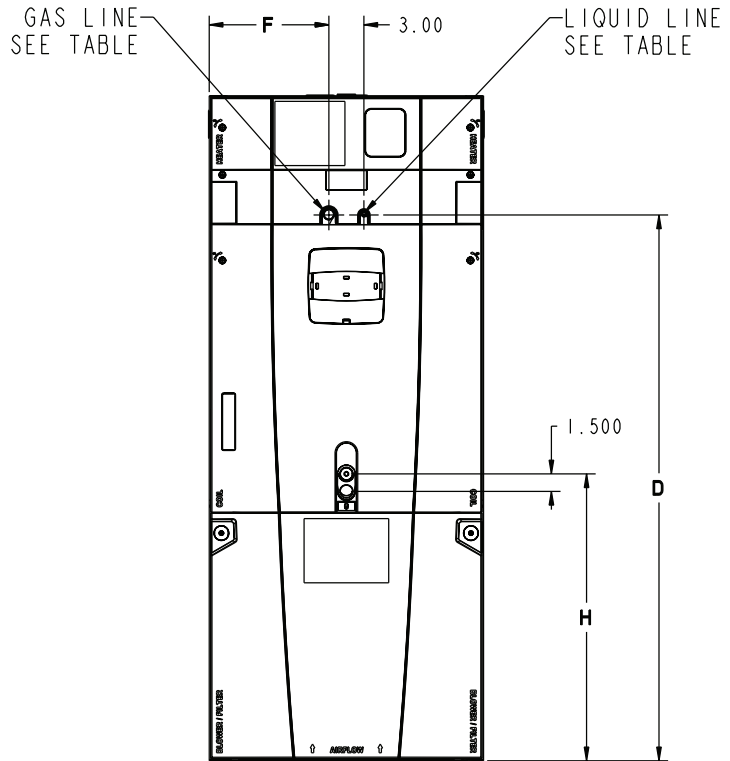
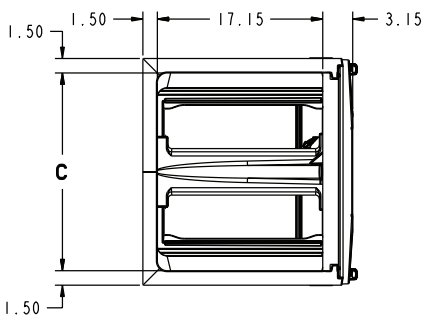
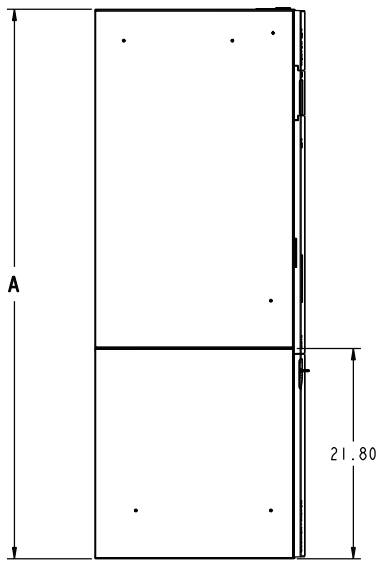
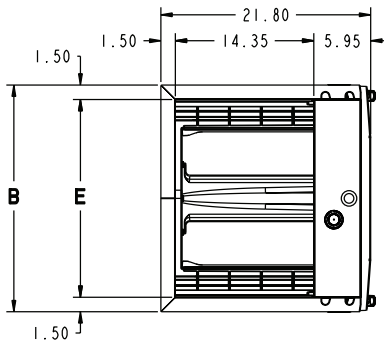


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### **▲ SAFETY WARNING**

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



	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
TAM7A0C36H31SC	56.9	23.5	20.5	46.7	20.5	10.3	24.2	EEV	7/8	3/8

# PRODUCT SPECIFICATIONS

<b>MODEL</b>	<b>TAM7A0C36H31SC</b>
<b>RATED VOLTS/PH/HZ.</b>	200-230/1/60
<b>RATINGS</b> <sup>(a)</sup>	See O.D. Specifications
<b>INDOOR COIL – Type</b>	Plate Fin
Rows – F.P.I.	3 – 14
Face Area (sq. ft.)	5.50
Tube Size (in.)	3/8
Refrigerant Control	EEV
Drain Conn. Size (in.) <sup>(b)</sup>	3/4 NPT
<b>DUCT CONNECTIONS</b>	See Outline Drawing
<b>INDOOR FAN – Type</b>	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
<b>FILTER</b>	
Filter Furnished?	No
Type Recommended	Throwaway
No.-Size-Thickness	1 – 22 x 20 – 1 in.
<b>REFRIGERANT</b>	<b>R-410A</b>
Ref. Line Connections	Brazed
Coupling or Conn. Size-in. Gas	7/8
Coupling or Conn. Size-in. Liq.	3/8
<b>DIMENSIONS</b>	H x W x D
Crated (In.)	57-1/4 x 25-1/4 x 23-1/2
Uncrated	56-15/16 x 23-1/2 x 21-3/4
<b>WEIGHT</b>	
Shipping (Lbs.)/Net (Lbs.)	157/146

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

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

<b>TAM7A0C36H31SC</b>											
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
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
BAYEVBC15LG3	1-3 PH	14.40	42000	34.6	47	50	10.80	36900	30.0	41	45
BAYEVBC15BK1-Circuit 1 <sup>(a)</sup>	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
BAYEVBC20BK1-Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYEVBC20BK1-Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45

1. \*\* Motor Amps  
 2. See Air Handler nameplate for additional information.  
 3. Heater model numbers may have additional suffix digits.

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

TAM7A0C36 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													
	350 CFM/ton	370 CFM/ton	390 CFM/ton		0.1	0.3	0.5	0.7	0.9	0.1		0.3	0.5	0.7	0.9										
2 tons	CFM	724/858	704/706	694/530	695/297	698/19	698/19	400	CFM	813	797	794	799	806											
	Watts	44/63	77/77	111/85	148/90	185/163	185/163	CFM/ton	57	94	133	174	215												
	CFM	759/892	744/747	738/585	740/387	742/784	742/784	420	CFM	849	837	835	841	849											
	Watts	49/69	84/84	120/93	158/98	197/135	197/135	CFM/ton	63	102	142	185	228												
	CFM	795/924	784/787	780/635	783/460	786/213	786/213	440	CFM	884	876	876	883	891											
	Watts	54/75	91/91	129/102	169/107	209/120	209/120	CFM/ton	69	110	153	197	242												
2.5 tons	CFM	830/957	823/826	822/683	824/524	827/329	827/329	450	CFM	902	895	897	902	912											
	Watts	60/82	99/99	139/111	180/117	222/123	222/123	CFM/ton	72	114	158	203	249												
	CFM	879/1026	876/905	877/776	881/639	884/488	884/488	400	CFM	992	991	998	1005	1014											
	Watts	68/97	110/116	153/130	197/138	240/143	240/143	CFM/ton	91	138	188	237	287												
	CFM	923/1067	924/952	927/830	932/702	936/565	936/565	420	CFM	1036	1040	1048	1057	1064											
	Watts	77/107	121/127	167/142	213/151	258/157	258/157	CFM/ton	101	152	204	256	307												
3 tons †	CFM	968/1110	971/999	977/883	983/762	987/634	987/634	440	CFM	1081	1089	1099	1110	1116											
	Watts	86/118	133/139	181/155	230/166	277/172	277/172	CFM/ton	113	167	221	277	330												
	CFM	1012/1153	1020/1047	1028/935	1034/820	1039/700	1039/700	450	CFM	1105	1113	1125	1136	1141											
	Watts	96/130	146/153	197/170	248/181	298/187	298/187	CFM/ton	119	174	231	287	341												
	CFM	1036/1175	1044/1070	1053/961	1060/848	1064/731	1064/731	400	CFM	1175	1189	1203	1214	1215											
	Watts	102/137	153/160	206/177	257/189	308/196	308/196	CFM/ton	140	200	261	321	377												
3 tons †	CFM	1090/1229	1102/1129	1114/1024	1122/916	1123/805	1123/805	420	CFM	1234	1251	1267	1275	1272											
	Watts	116/154	171/178	227/196	282/209	334/217	334/217	CFM/ton	159	223	288	351	406												
	CFM	1145/1285	1161/1188	1176/1087	1184/984	1184/877	1184/877	440	CFM	1295	1315	1331	1335	1325											
	Watts	132/173	191/198	251/218	309/231	363/240	363/240	CFM/ton	180	250	318	381	435												
	CFM	1204/1343	1223/1249	1238/1152	1246/1051	1242/948	1242/948	450	CFM	1327	1348	1362	1364	1350											
	Watts	150/195	213/221	277/241	337/256	391/264	391/264	CFM/ton	192	264	340	414	477												
3.5 tons	CFM	1199/1338	1218/1244	1233/1146	1241/1046	1237/942	1237/942	400	CFM	1380	1403	1414	1409	1389											
	Watts	149/193	211/219	274/239	335/254	389/262	389/262	CFM/ton	214	289	360	422	472												
	CFM	1269/1408	1291/1317	1307/1223	1311/1126	1300/1025	1300/1025	420	CFM	1459	1478	1481	1467	1395											
	Watts	172/222	240/249	307/270	370/285	423/294	423/294	CFM/ton	248	327	397	456	476												
	CFM	1342/1481	1367/1393	1380/1301	1378/1206	1358/1108	1358/1108	440	CFM	1538	1550	1542	1504	1388											
	Watts	200/255	273/282	343/304	405/320	456/329	456/329	CFM/ton	287	366	433	457	472												
3.5 tons	CFM	1419/1555	1442/1468	1449/1379	1438/1286	1394/1189	1394/1189	450	CFM	1575	1583	1570	1501	1385											
	Watts	232/291	309/319	380/341	440/357	478/367	478/367	CFM/ton	307	385	450	477	470												

- † 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.	BAYEVAC05BK1AA BAYEVAC05LG1AA	BAYEVAC08BK1AA BAYEVAC08LG1AA	BAYEVAC10BK1AA BAYEVAC10LG1AA	BAYEVAC10LG3AA	BAYEVCB15LG3AA	BAYEVCB15BK1AA	BAYEVCB20BK1AA
TAM7A0C36H31SC	876/979	876/1236	927/1236	824/979	927/1288	1030/1339	1236/1442
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE							

**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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Supersedes TAM7A0C36-SPEC-1C (April 2012)