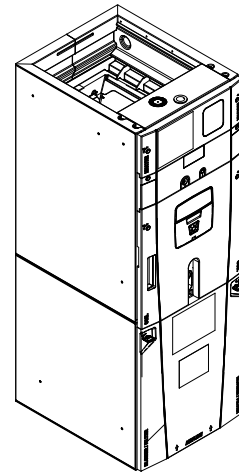


Submittal

Variable Speed Convertible Air Handler 2 Ton

TAM9A0A24V21DA



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

Note: For use with BAYEA series heaters ONLY

TAG: _____

▲ SAFETY WARNING

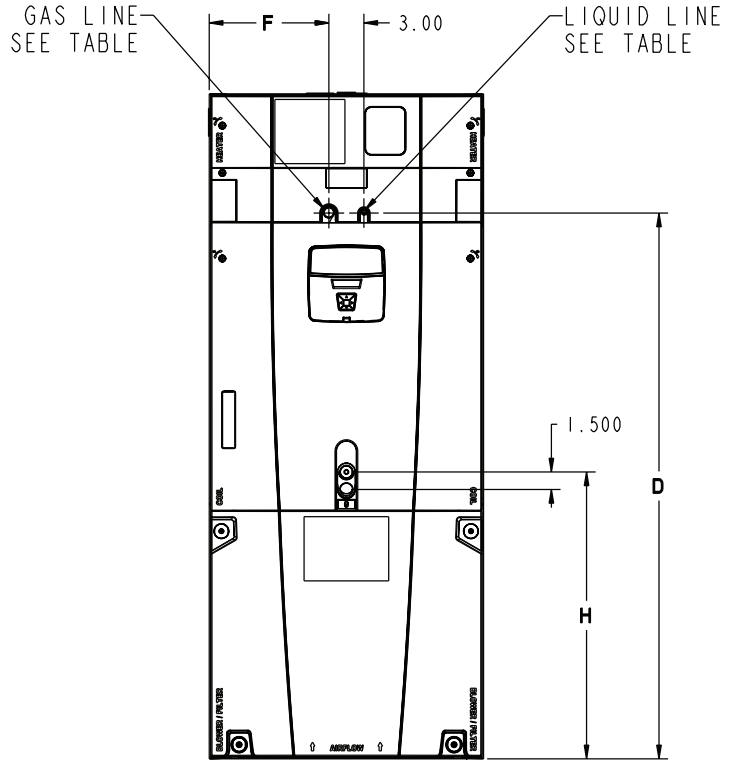
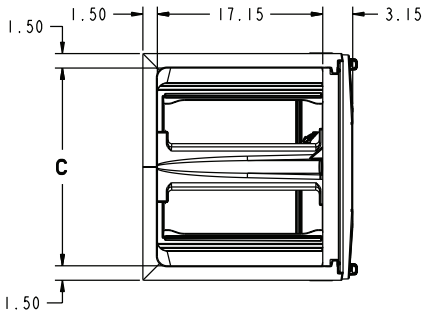
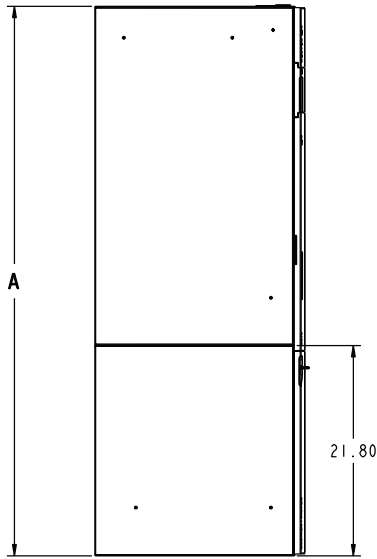
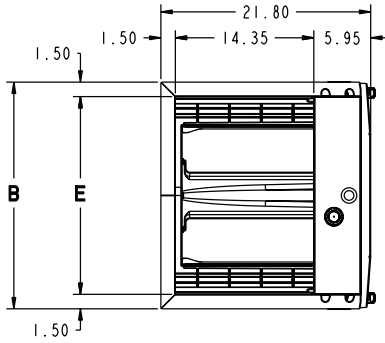
Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified 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.

March 2017

TAM9A0A24-SUB-1A-EN

 Ingersoll Rand.

TAM9 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
TAM9A0A24H21DA	49.9	39.6	14.5	17.5	14.5	7.3	24.4	EEV	3/4	3/8

PRODUCT SPECIFICATIONS

MODEL	TAM9A0A24V21DA	F.L. Amps	3.0 — 3.5 ^(c)
RATED VOLTS/PH/HZ.	200 — 230/1/60	FILTER	
RATINGS ^(a)	See O.D. Specifications	Filter Furnished?	No
INDOOR COIL — Type	Plate Fin	Type Recommended	Throwaway
Rows — F.P.I.	3 — 14	No.-Size-Thickness	1 — 16 x 20 — 1 in.
Face Area (sq. ft.)	3.67	REFRIGERANT	R-410A
Tube Size (in.)	3/8	Ref. Line Connections	Brazed
Refrigerant Control	EEV	Coupling or Conn. Size-in. Gas	3/4
Drain Conn. Size (in.) ^(b)	3/4 NPT	Coupling or Conn. Size-in. Liq.	3/8
DUCT CONNECTIONS	See Outline Drawing	DIMENSIONS	H x W x D
INDOOR FAN — Type	Centrifugal	Crated (In.)	51 x 20 x 24.5
Diameter-Width (In.)	11 x 8	Uncrated	49.9 x 17.5 x 21.8
No. Used	1	WEIGHT	
Drive — No. Speeds	Direct — Variable	Shipping (Lbs.)/Net (Lbs.)	126/116
CFM vs. in. w.g.	See Fan Performance Table	^(a) These Air Handlers are AHRI certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240).	
No. Motors — H.P.	1 — 1/2	^(b) 3/4" Male Plastic Pipe (Ref.:ASTM 1785-76)	
Motor Speed RPM	Variable ECM	^(c) Check motor nameplate for actual FLA	
Volts/Ph/Hz	208-230/1/60		

HEATER ATTRIBUTE DATA

TAM9A0A24V21DA											
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	-	-	3.5 **	4	15	-	-	3.5 **	4	15
BAYEAAC04++1	1	3.84	13100	16.0	24	25	2.88	9800	13.8	22	25
BAYEAAC05++1	1	4.80	16400	20.0	29	30	3.60	12300	17.3	26	30
BAYEAAC08++1	1	7.68	26200	32.0	44	45	5.76	19700	27.7	39	40
BAYEAAC10++1 ^(a)	1	9.60	32800	40.0	54	60	7.20	24600	34.6	48	50
BAYEAAC10LG3	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.

TAM9 Air Flow Performance Tables

TAM9A0A24 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					
	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	0.1	0.3	0.5	0.7	0.9	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	0.1	0.3	0.5	0.7	0.9	
1.5 tons	290	350	400	450	407/546	430/403	398/NA	347/NA	255/NA	290	CFM	Watts	CFM	416	426	401	330	291	
	22/40	534/630	549/531	542/360	51/48	77/NA	103/NA	133/NA	133/NA	350	CFM	Watts	CFM	22	49	76	101	134	
	39/57	71/68	633/617	604/NA	71/68	103/73	132/NA	156/NA	156/NA	400	CFM	Watts	CFM	37	69	101	129	152	
	54/72	90/86	632/501	559/NA	90/86	125/96	156/NA	181/NA	181/NA	450	CFM	Watts	CFM	62	99	136	169	197	
	691/762	710/693	707/602	688/478	691/762	707/602	688/478	649/NA	649/NA	290	CFM	Watts	CFM	69	108	145	180	208	
	72/91	111/106	148/119	183/127	111/106	148/119	183/127	212/NA	212/NA	350	CFM	Watts	CFM	59	61	60	58	52	
	593/680	613/595	607/470	583/208	593/680	613/595	607/470	527/132	527/132	400	CFM	Watts	CFM	48	82	116	147	172	
	54/68	85/81	119/90	175/138	54/68	85/81	119/90	175/138	175/138	450	CFM	Watts	CFM	75	115	153	189	218	
	717/783	733/717	733/632	714/519	717/783	733/717	733/632	678/355	678/355	290	CFM	Watts	CFM	71	73	73	71	67	
	79/98	118/114	157/127	192/136	79/98	118/114	157/127	222/143	222/143	350	CFM	Watts	CFM	86	88	84	87	84	
2 tons †	400 †	CFM	810/868	827/811	827/740	813/652	782/543	400 (e)	400 (e)	400 †	CFM	Watts	CFM	82	168	213	254	290	
	108/128	152/146	194/161	233/173	108/128	152/146	194/161	265/182	265/182	450	CFM	Watts	CFM	122	168	213	254	290	
	903/954	918/902	920/839	909/764	903/954	918/902	920/839	884/674	884/674	290	CFM	Watts	CFM	89	91	92	91	88	
	144/165	192/182	238/201	280/215	144/165	192/182	238/201	316/224	316/224	350	CFM	Watts	CFM	136	184	231	273	310	
	741/820	757/759	757/681	739/582	741/820	757/759	757/681	705/452	705/452	400	CFM	Watts	CFM	73	75	75	74	70	
	86/110	126/127	166/141	202/152	86/110	126/127	166/141	232/159	232/159	450	CFM	Watts	CFM	81	122	162	198	229	
	880/947	896/895	896/832	885/757	880/947	896/895	896/832	859/665	859/665	290	CFM	Watts	CFM	87	89	89	88	86	
	134/162	182/181	226/198	267/211	134/162	182/181	226/198	302/221	302/221	350	CFM	Watts	CFM	127	174	220	261	297	
	1011/	1014/954	1014/954	1006/887	1011/	1014/954	1014/954	985/807	985/807	400	CFM	Watts	CFM	106	108	108	108	106	
	188/220	241/240	291/257	336/271	188/220	241/240	291/257	375/280	375/280	450	CFM	Watts	CFM	215	272	326	375	418	
2.5 tons	1120/	1135/	1137/	1129/	1120/	1135/	1137/	1108/946	1108/946	290	CFM	Watts	CFM	111	113	113	113	111	
	1180	1134	1081	1019	1180	1134	1081	463/355	463/355	350	CFM	Watts	CFM	244	304	360	410	453	
	260/297	319/317	373/334	422/347	260/297	319/317	373/334	854/659	854/659	400	CFM	Watts	CFM	87	89	89	88	85	
	875/943	891/891	892/891	880/751	875/943	891/891	892/891	300/221	300/221	450	CFM	Watts	CFM	125	172	217	259	295	
	132/160	179/179	224/196	265/209	132/160	179/179	224/196	1035/862	1035/862	290	CFM	Watts	CFM	87	89	89	88	85	
	1045/	1060/	1063/	1055/939	1045/	1060/	1063/	409/308	409/308	350	CFM	Watts	CFM	104	105	106	105	104	
	1106	1059	1004	369/299	1106	1059	1004	1129/	1129/	400	CFM	Watts	CFM	202	257	310	358	401	
	215/248	270/268	321/285	480/402	215/248	270/268	321/285	1030	1030	450	CFM	Watts	CFM	202	257	310	358	401	
	1200/	1212/	1212/	1200/	1200/	1212/	1212/	481/409	481/409	290	CFM	Watts	CFM	129	130	130	122	113	
	1257	1211	1159	1099	1257	1211	1159	1095/	1095/	350	CFM	Watts	CFM	368	432	487	478	470	
315/354	376/374	432/390	480/402	315/354	376/374	432/390	1177/	1177/	400	CFM	Watts	CFM	422	483	476	468	462		
1358/	1333/	1256/	1177/	1358/	1333/	1256/	460/531	460/531	450	CFM	Watts	CFM	135	136	128	128	112		
1403	1359	1308	1251	1403	1359	1308	600/713	600/713	290	CFM	Watts	CFM	422	483	476	468	462		
447/484	482/502	472/517	466/527	447/484	482/502	472/517			450	CFM	Watts	CFM	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

TAM9A0A24 Minimum Heating Airflow Settings

MODEL NO.	BAYEAAC04BK1 BAYEAAC04LG1 BAYEAAC05BK1 BAYEAAC05LG1	BAYEAAC08BK1 BAYEAAC08LG1	BAYEAAC10BK1 BAYEAAC10LG1	BAYEAAC10LG3	BAYEACB15BK1 BAYEACB15LG3	BAYEAAC20BK1
TAM9A0A24	638/713	638/900	675/900	600/713	-	-

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

(e) 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
- Communicating or 24 Volt control
- Control Display Assembly (CDA) with enhanced diagnostic information and setup capability
- 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**



Ingersoll Rand (NYSE: IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands – including Club Car®, Ingersoll Rand®, Thermo King® and Trane® – work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a global business committed to a world of sustainable progress and enduring results.



ingersollrand.com

Ingersoll Rand has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice.
We are committed to using environmentally conscious print practices.