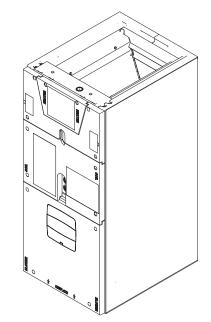


Product Data

Modular Multi-position Air Handler Air Handler - Convertible 3 ton with high efficiency motor Model: Series 2 Air Handler

Standard Coil GAF2A0A36M31SC Black Epoxy Coil GAF2A0A36M31EC



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



22-1862-08A-EN



Features and Benefits

- Unique Cabinet Design
- Double Wall Foamed and Formed Cabinet System
- Water Proof Cabinet Design
- R-4.2 Insulating Value (Avg. Insulating Value R-8)
- Composite Foamed Cabinet Doors
- Sweat Eliminating Cabinet Design
- Loose Fiber Eliminating Cabinet Design
- Smooth Cleanable Cabinet Design
- 2% or Less air leakage
- Precision Applied Durable Door Seals
- Multi-Position Upflow/ Horizontal Left
 / Horizontal Right
- Front Return Option
- Braze in Refrigerant Connection
- Primary/Secondary Condensate Connections

- Vortica Blower with Integrated Slide Deck for Easy Removal
- Polarized Plug connections on Blower
- Aluminum Coil with Integrated Slide Deck for Easy Removal
- Slide in Electric Heaters
- Polarized Plug connections for Electric Heater
- Labeled Panels and connections
- Guide for up to 1" Conduit connection on Top
- Electronic Expansion Valve (EEV) with Low Ambient and Low Superheat Protection
- Low Voltage Color Coded Wires
- Enhanced Coil Fin Patented
- Blow Through Design

- High efficiency ECM Constant Torque motor
- Maximum Width of 17.5"
- Compact 20.8" depth with doors removed
- Integrated Horizontal Drain pans
- Single Color
- Fused 24V Power
- Optional extended warranty available



Contents

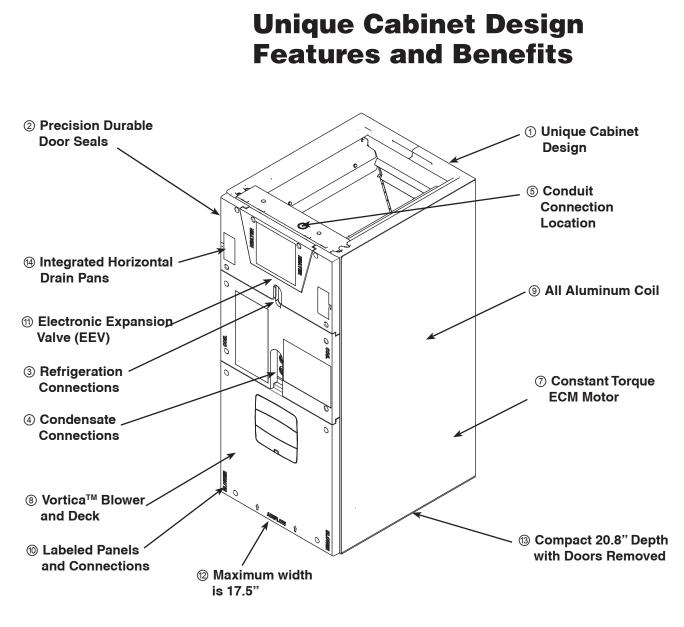
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Optional Equipment

OPTIONAL EQUIPMENT FOR GAF2 AIR HANDLERS

Accessory Number	Description	Fits Cabinet Size
BAYECAA05LG1	Electric Heater, 5kW, Lugs, 24V Control, 1 Ph	A
BAYECAA08LG1	Electric Heater, 8kW, Lugs, 24V Control, 1 Ph	A
BAYECAA10LG1	Electric Heater, 10kW, Lugs, 24V Control, 1 Ph	A
BAYSFSCABAA	Supply Duct Flange A1 ①	A1 ①
BAYRETFLGAA	Return Duct Flange A	A
TASB175SB	Plenum Stand with Sound Baffle A	A
BAYFRKIT100 3	Front Return Kit	A
BAYBRFBX100 ②	Bottom Return Filter Box	A
BAYWMKIT001	Wall Mount Kit	A
BAYLVKIT100A	Low Voltage Conduit Entry Kit	A
BAYAHTXV1836	R-22 TXV Conversion Kit	A
BAYSRKIT100A	Side Return Kit	A
MITISRKIT1620 ②	Side Return Kit with 16" x 20" Filter	A
BAYFLR1620A	High Velocity Filter Kit, 16" X 20' X 1" (10 filters)	A
TASSBK175	Sound Baffle Kit 17.5" Cabinet	A



① Unique Cabinet Design

- Double wall foamed cabinet system
- Waterproof Cabinet Design
- R-4.2 Insulating Value (Avg. Insulating Value R-8)
- Composite Foamed Cabinet Doors
- Sweat Eliminating Cabinet Design
- Loose Fiber Eliminating Design
- Smooth Cleanable Cabinet Design
- 2% or Less air leakage
- **② Precision Durable Door Seals**
- **③ Brazed Refrigeration Connections**
- **④ Primary/Secondary Condensate Connections**
- (5) Conduit Connection Conduit Connection on Top
- **⑦** Constant Torque ECM Motor
- ⑧ Vortica[™] Blower and Deck Polarized Plug on Blower

- ③ All Aluminum Coil
 - Integrated Slide Deck for Easy Removal
 - Polarized Plug connections on Coil TXV
 - Patented Enhanced Coil Fin
- **(1)** Labeled Panels and Connections
- (1) Electronic Expansion Valve (EEV)
- (2) Maximum width is 17.5"
- **③** Compact 20.8" Depth with Doors Removed
- (4) Integrated Horizontal Drain Pans



General Data

PRODUCT SPECIFICATIONS						
MODEL	GAF2A0A36M31EC					
	GAF2A0A36M31SC					
RATED VOLTS/PH/HZ.	208-230/1/60					
RATINGS ①	See O.D. Specifications - Plate Fin					
INDOOR COIL — Type						
Rows — F.P.I.	3 - 14					
Face Area (sq. ft.)	3.21					
Tube Size (in.)	3/8					
Refrigerant Control	EEV					
Drain Conn. Size (in.) ②	3/4 NPT					
DUCT CONNECTIONS	See Outline Drawing					
INDOOR FAN — Type	Centrifugal					
Diameter-Width (In.)	11 X 8					
No. Used	1					
Drive - No. Speeds	Direct - 3					
CFM vs. in. w.g.	See Fan Performance Table					
No. Motors — H.P.	1 - 1/2					
Motor Speed RPM ③	1050					
Volts/Ph/Hz	208-230/1/60					
F.L. Amps - L.R. Amps	4.1					
FILTER						
Filter Furnished?	No					
Type Recommended	Throwaway					
NoSize-Thickness	1 - 16 X 20 - 1 in.					
REFRIGERANT	<u>R-410A</u>					
Ref. Line Connections	Brazed					
Coupling or Conn. Size — in. Gas	3/4					
Coupling or Conn. Size — in. Lig.	3/8					
DIMENSIONS	H x W x D					
Crated (In.)	40.5 x 20 x 24.5					
Uncrated	39.5 x 17.5 x 21.8					
WEIGHT						
Shipping (Lbs.)/Net (Lbs.)	109/98					

① This Air Handler is AHRI certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.

② 3/4" Male Plastic Pipe (Ref.: ASTM 1785-76)

③ Constant Torque Motor



Performance Data

GAF2A0A36M31 AIRFLOW PERFORMANCE TABLE

AIRFLOW PERFORMANCE											
GAF2A0A36M31											
EXTERNAL STATIC (in w.g)											
	Speed Taps – 230 VOLTS Spee						Speed T	peed Taps – 208 VOLTS			
	5	4 †	3	2	1	5	4 †	3	2	1	
0	1272	1203	972	862	716	1269	1200	969	859	713	
0.1	1247	1188	945	830	670	1241	1182	939	824	665	
0.2	1223	1169	917	797	625	1214	1161	909	788	616	
0.3	1195	1147	890	764	579	1183	1136	879	753	567	
0.4	1147	1121	863	731	533	1133	1107	849	717	519	
0.5	1110	1091	835	699	487	1093	1075	818	682	470	
0.6	1072	1058	808	666	441	1052	1039	788	646	421	
0.7	1027	1021	781	633	395	1005	999	758	611	373	
0.8	977	977	753	601	349	952	952	728	576	324	
0.9	923	923	726	568	303	895	895	698	540	275	
1.0	865	865	699	535	257	835	835	668	505	227	

NOTES:

1. Values are with wet coil and without filters.

Contact your particular filter manufacturer for pressure drop data.
 Electric heater pressure drop is negligible and is included within the airflow data.
 † Factory Setting

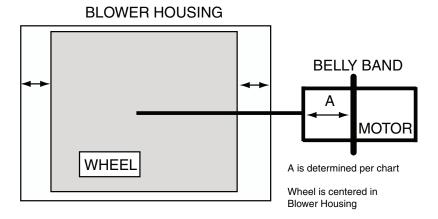
GAF2A0A36M31 MINIMUM HEATER AIRFLOW CFM							
Heater Minimum Air Speed Tap							
	Without Heat Pump	With Heat Pump					
BAYECAA05LG1	Tap 1	Tap 2					
BAYECAA08LG1	Tap 5	Tap 5					
BAYECAA10LG1	Tap 1	Tap 3					
SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS Note: Heating and cooling speeds are the same, factory set at Speed Tap #4							



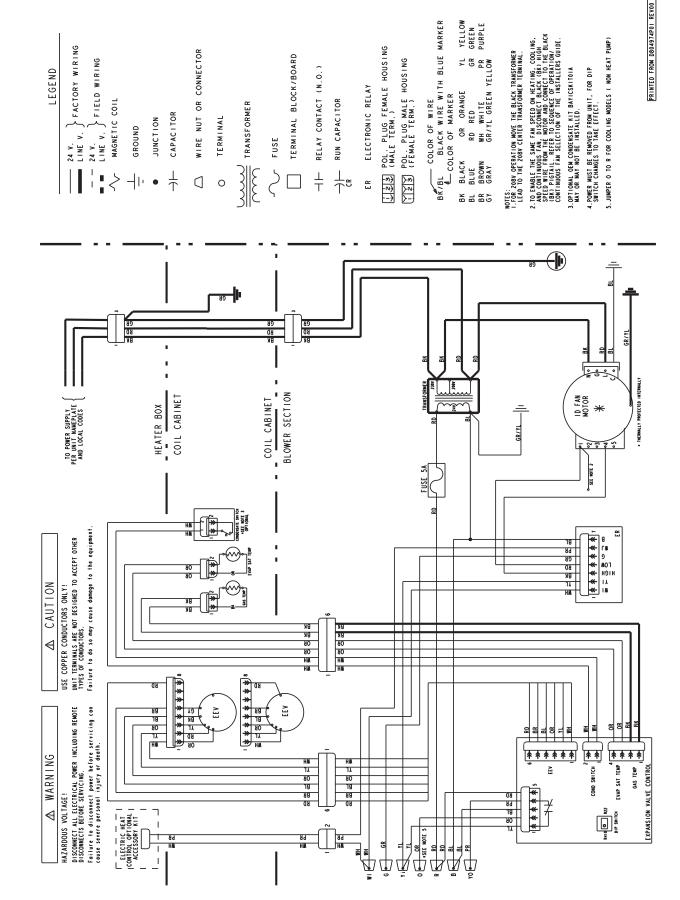
Electrical Data

WIRING DATA													
GAF2A0A36M31													
	240 VOLT					208 VOLT							
Heater Model No.	No. of Circuits	Сар	oacity	Heater Amps per	Minimum Circuit Ampac–	Maximum Overload Protection		l oup		acity	Heater Amps per	Minimum Circuit	Maximum Overload
		kW	BTUH	Circuit	ity		kW	BTUH	Circuit	Ampacity	Protection		
No Heater	-	-	-	4.1**	5	15	-	-	4.1**	5	15		
BAYECAA05++	1	4.80	16400	20	30	30	3.60	12300	17.3	27	30		
BAYECAA08++	1	7.68	26200	32	45	45	5.76	19700	27.7	40	40		
BAYECAA10++	1	9.60	32800	40	55	60	7.20	24600	34.6	48	50		
Note: ** Motor Amps													

DISTANCE FROM BELLY BAND TO SHAFT FACE OF MOTOR FOR MINIMUM VIBRATION



MODEL	DIM "A"				
GAF2A0A36M31	1–1/2				

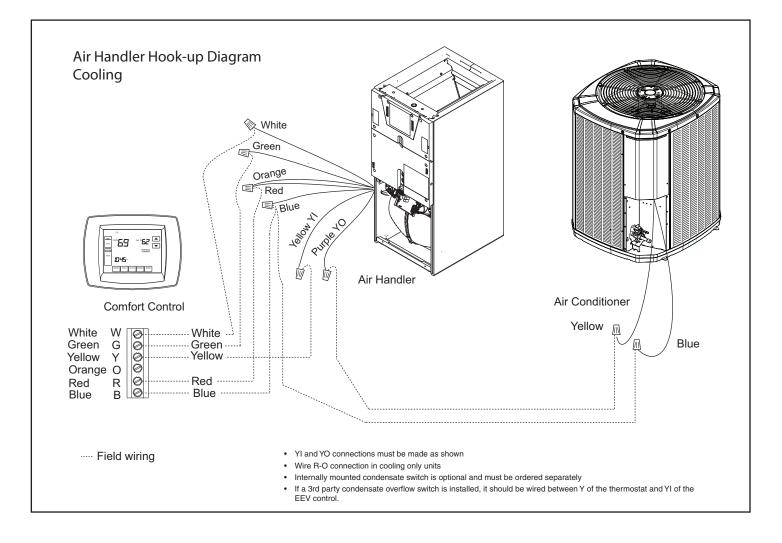


WIRING DIAGRAM FOR GAF2A0A36M AIR HANDLER



Field Wiring

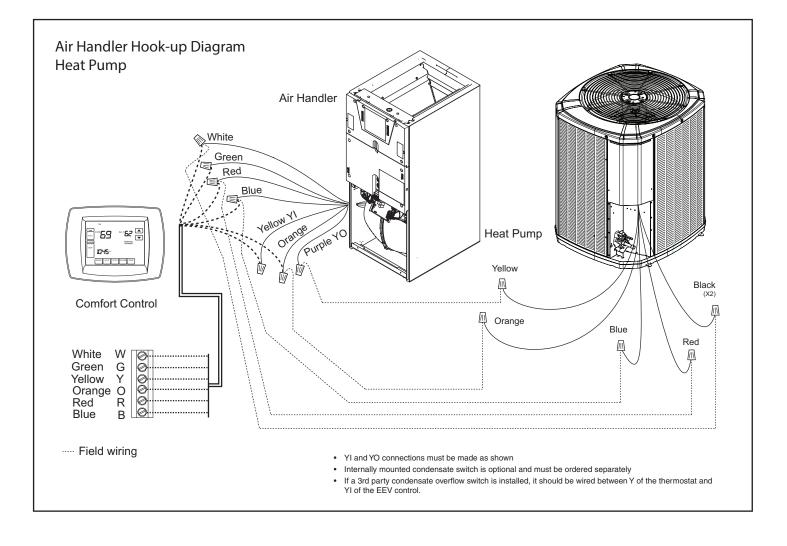
GAF2 AIR HANDLERS WITH SINGLE SPEED COOLING





Field Wiring

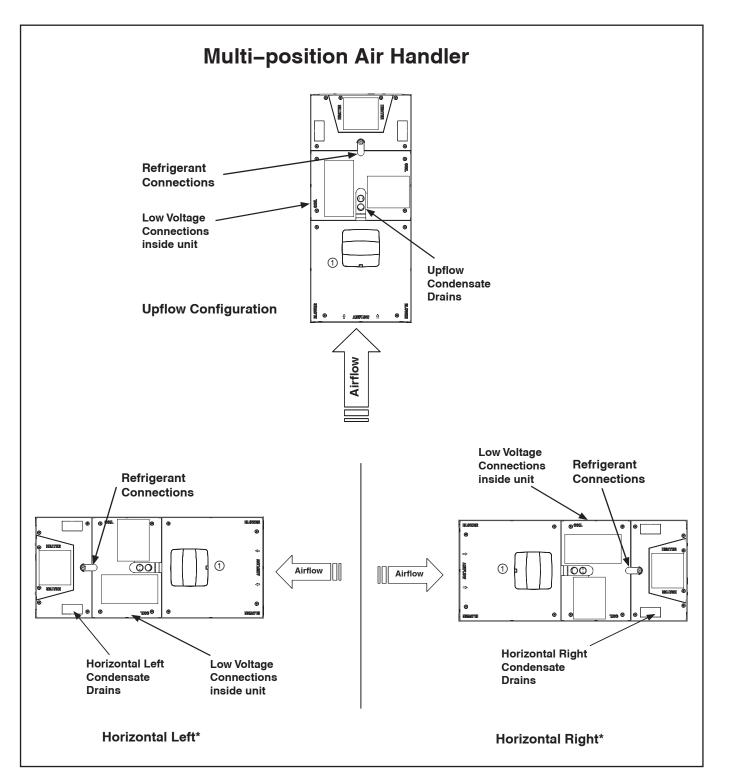
GAF2 AIR HANDLERS WITH SINGLE SPEED HEAT PUMP





GAF2 Convertibility

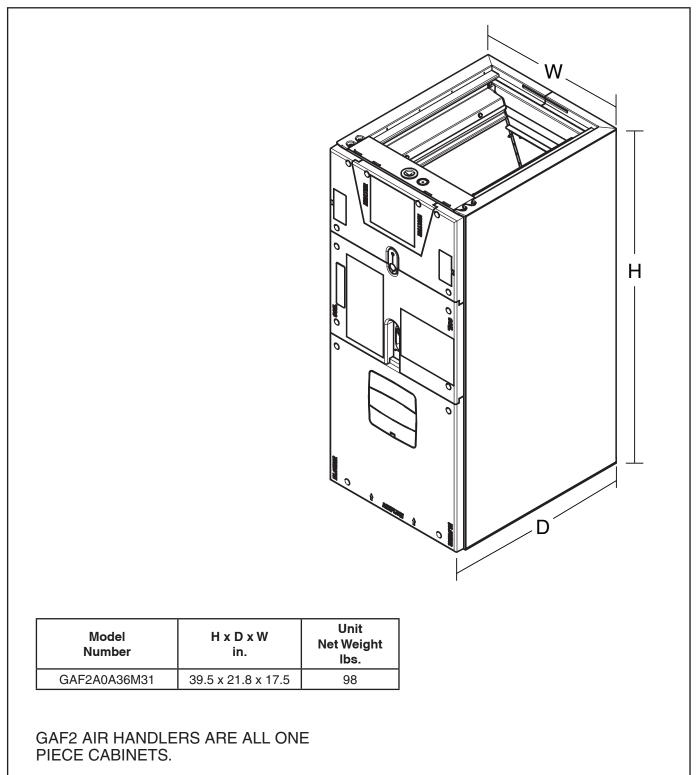
* Note: No internal modifications required for any position.
① Badge rotation will keep brand in correct position



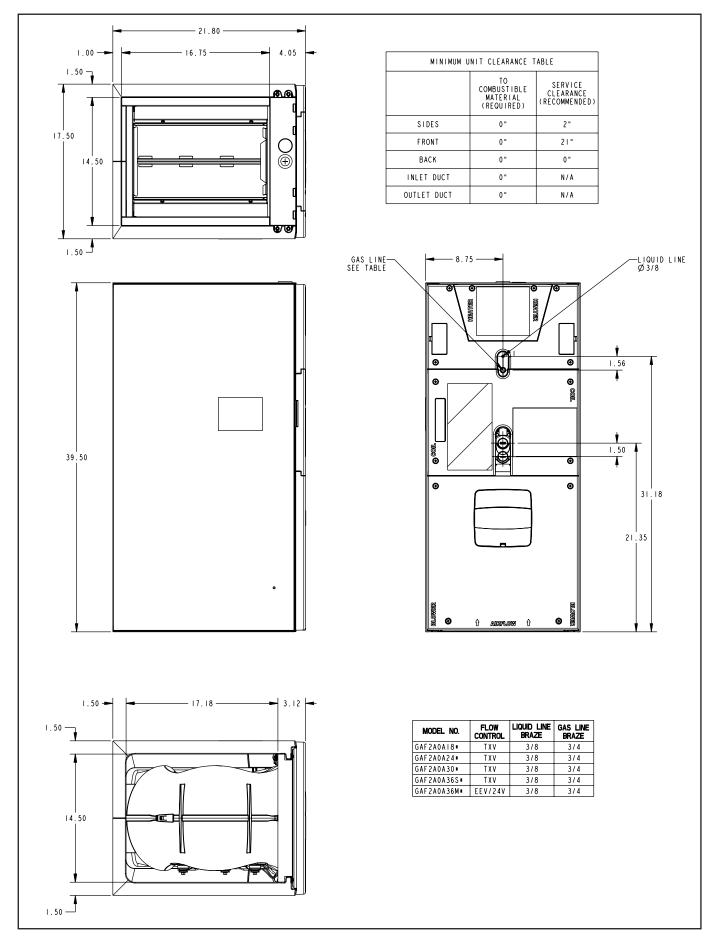


Dimensions

GAF2 AIR HANDLER DIMENSIONAL DATA



GAF2 OUTLINE DRAWING







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