

Convertible Air Handlers


Models: Series 2 Air Handlers 1-1/2 to 5 Ton

- GAM2A0A18S11SB
 - GAM2A0A24S21SB
 - GAM2A0A30S21SB
 - GAM2A0A36S31SB
 - GAM2A0B42S31SB
 - GAM2A0C48S41SB
 - GAM2A0C60S51SB
- Note: 14th digit may be A-D


*For use with BAYEA series heaters ONLY

WARNING: HAZARDOUS VOLTAGE - DISCONNECT POWER BEFORE SERVICING

IMPORTANT --- This document contains a wiring diagram and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

 **WARNING**

SAFETY HAZARD! This information is intended for use by individuals possessing adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacture or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

 **WARNING**

LIVE ELECTRICAL COMPONENTS! During installation, testing, servicing, and troubleshooting of this product, it may be necessary to work with live electrical components. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Important: Panel damage can occur with prolonged exposure to POE lubricants. Air handler front panels that come in contact with POE oil must be washed immediately with soapy water.

 **WARNING**

PRESSURIZED REFRIGERANT! SYSTEM CONTAINS OIL AND REFRIGERANT UNDER HIGH PRESSURE. RECOVER REFRIGERANT TO RELIEVE PRESSURE BEFORE OPENING THE SYSTEM.

DO NOT USE NON-APPROVED REFRIGERANTS OR REFRIGERANT SUBSTITUTES OR REFRIGERANT ADDITIVES.

Note: This unit is certified to UL 1995.
The interior cabinet wall meets the following:

- UL94-5VA Flame Class Listed
- UL723 Steiner Tunnel Listed for 25/50 Flame/Smoke
- UL746C Listed for Exposure to Ultraviolet Light, Water Exposure and Immersion

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NOTICE: Since the manufacturer has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.

PRODUCT SPECIFICATIONS

MODEL	GAM2A0A18S11SB	GAM2A0A24S21SB	GAM2A0A30S21SB	GAM2A0A36S31SB
RATED VOLTS/PH/HZ.	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
RATINGS ①	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
INDOOR COIL — Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows — F.P.I.	3 - 14	3 - 14	3 - 14	3 - 14
Face Area (sq. ft.)	3.21	3.21	3.21	3.67
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigerant Control	TXV	TXV	TXV	TXV
Drain Conn. Size (in.) ②	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing	See Outline Drawing	See Outline Drawing	See Outline Drawing
INDOOR FAN — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Diameter-Width (In.)	11 X 8	10 X 8	10 X 8	11 X 8
No. Used	1	1	1	1
Drive - No. Speeds	Direct - 3	Direct - 3	Direct - 3	Direct - 3
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
No. Motors — H.P.	1 - 1/3	1 - 1/4	1 - 1/3	1 - 1/2
Motor Speed RPM	825	1075	1025	1075
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps - L.R. Amps	2.0 - 4.1	1.3 - 2.6	1.7 - 3.5	2.4 - 3.8
FILTER	FILTER	FILTER	FILTER	FILTER
Filter Furnished?	No	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway	Throwaway
No.-Size-Thickness	1 - 16 X 20 - 1 in.	1 - 16 X 20 - 1 in.	1 - 16 X 20 - 1 in.	1 - 16 X 20 - 1 in.
REFRIGERANT	R-410A	R-410A	R-410A	R-410A
Ref. Line Connections	Braze	Braze	Braze	Braze
Coupling or Conn. Size — in. Gas	3/4	3/4	3/4	3/4
Coupling or Conn. Size — in. Liq.	3/8	3/8	3/8	3/8
DIMENSIONS	H x W x D	H x W x D	H x W x D	H x W x D
Crated (In.)	51 x 20 x 24-1/2	51 x 20 x 24-1/2	51 x 20 x 24-1/2	51 x 20 x 24-1/2
Uncrated	49-15/16 x 17-1/2 x 21-13/16	49-15/16 x 17-1/2 x 21-13/16	49-15/16 x 17-1/2 x 21-13/16	49-15/16 x 17-1/2 x 21-13/16
WEIGHT				
Shipping (Lbs.)/Net (Lbs.)	123/113	126/116	127/117	131/120

MODEL	GAM2A0B42S31SB	GAM2A0C48S41SB	GAM2A0C60S51SB
RATED VOLTS/PH/HZ.	208-230/1/60	208-230/1/60	208-230/1/60
RATINGS ①	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
INDOOR COIL — Type	Plate Fin	Plate Fin	Plate Fin
Rows — F.P.I.	3 - 14	3 - 14	4 - 14
Face Area (sq. ft.)	5.04	5.50	5.50
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	TXV	TXV	TXV
Drain Conn. Size (in.) ②	3/4 NPT	3/4 NPT	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing	See Outline Drawing	See Outline Drawing
INDOOR FAN — Type	Centrifugal	Centrifugal	Centrifugal
Diameter-Width (In.)	10 X 10	11 X 10	11 X 10
No. Used	1	1	1
Drive - No. Speeds	Direct - 3	Direct - 3	Direct - 5 ③
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
No. Motors — H.P.	1 - 1/2	1 - 1/2	1 - 1
Motor Speed RPM	1075	1075	1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps - L.R. Amps	2.7 - 5.0	3.1 - 5.5	7.6 - na
FILTER	FILTER	FILTER	FILTER
Filter Furnished?	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway
No.-Size-Thickness	1 - 20 X 20 - 1 in.	1 - 22 X 20 - 1 in.	1 - 22 X 20 - 1 in.
REFRIGERANT	R-410A	R-410A	R-410A
Ref. Line Connections	Braze	Braze	Braze
Coupling or Conn. Size — in. Gas	7/8	7/8	7/8
Coupling or Conn. Size — in. Liq.	3/8	3/8	3/8
DIMENSIONS	H x W x D	H x W x D	H x W x D
Crated (In.)	56-13/16 x 23-1/2 x 24-1/2	58 x 25-1/2 x 24-1/2	62-13/16 x 25-1/2 x 24-1/2
Uncrated	55-23/32 x 21-5/16 x 21-13/16	56-15/16 x 23-1/2 x 21-13/16	61-23/32 x 23-1/2 x 21-13/16
WEIGHT			
Shipping (Lbs.)/Net (Lbs.)	144/133	155/143	171/159

- ① These Air Handlers are 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
* May be "A" or "T"
Note: 14th digit may be A-D

AIRFLOW PERFORMANCE						
GAM2A0A18S11S						
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)					
	Speed Taps - 230 VOLTS			Speed Taps - 208 VOLTS		
	3	2 †	1	3	2 †	1
0	1091	743	677	1065	621	561
0.1	1024	719	659	999	606	544
0.2	952	690	635	929	583	524
0.3	875	651	598	852	551	492
0.4	799	601	553	782	510	451
0.5	726	536	488	706	453	390
0.6	621	431	390	604	369	315
0.7	500	320	N/A	474	225	N/A
0.8	321	N/A	N/A	302	N/A	N/A
0.9	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:

1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

GAM2A0A18S11S MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 1	Tap 1
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 1	Tap 1
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 2	Tap 1
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3	Tap 2
BAYEAAC10LG3AA	Tap 3	Tap 1
BAYEABC15BK1AA	-	-
BAYEABC20BK1AA	-	-

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.

AIRFLOW PERFORMANCE						
GAM2A0A24S21S						
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)					
	Speed Taps - 230 VOLTS			Speed Taps - 208 VOLTS		
	3	2 †	1	3	2 †	1
0	1036	871	774	929	746	663
0.1	1008	838	747	890	720	636
0.2	965	806	712	856	686	605
0.3	922	767	676	815	654	564
0.4	875	726	638	777	618	518
0.5	823	681	591	733	568	464
0.6	769	608	505	675	479	398
0.7	673	498	422	572	393	N/A
0.8	515	402	322	436	303	N/A
0.9	339	242	N/A	279	N/A	N/A

NOTES:

1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

GAM2A0A24S21S MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 1	Tap 1
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 1	Tap 1
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 1	Tap 1
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 2 ①	Tap 1
BAYEAAC10LG3AA	Tap 3	Tap 1
BAYEABC15BK1AA	-	-
BAYEABC20BK1AA	-	-

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS
 ① Minimum Speed Tap is 3 for Horizontal Left only.

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.

AIRFLOW PERFORMANCE						
GAM2A0A30S21S						
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)					
	Speed Taps - 230 VOLTS			Speed Taps - 208 VOLTS		
	3	2 †	1	3	2 †	1
0	1202	1013	944	1145	867	798
0.1	1156	985	922	1102	847	779
0.2	1102	947	892	1059	838	774
0.3	1049	909	859	1006	795	733
0.4	1000	867	822	958	774	714
0.5	943	823	783	900	726	672
0.6	883	767	738	843	681	621
0.7	822	709	658	778	601	542
0.8	749	583	542	697	492	441
0.9	684	440	N/A	628	N/A	N/A
1.0	613	N/A	N/A	549	N/A	N/A

NOTES:
1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

GAM2A0A30S21S MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAC04BK1AA BAYEAC04LG1AA	Tap 1	Tap 1
BAYEAC05BK1AA BAYEAC05LG1AA	Tap 1	Tap 1
BAYEAC08BK1AA BAYEAC08LG1AA	Tap 2	Tap 1
BAYEAC10BK1AA BAYEAC10LG1AA	Tap 2	Tap 1
BAYEAC10LG3AA	Tap 1	Tap 1
BAYEABC15BK1AA	Tap 3	Tap 2
BAYEABC15LG3AA	Tap 3 ①	Tap 1 ①
BAYEABC20BK1AA	-	-

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS
① Heater not qualified for 240V in downflow installations.

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.

AIRFLOW PERFORMANCE						
GAM2A0A36S31S						
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)					
	Speed Taps - 230 VOLTS			Speed Taps - 208 VOLTS		
	3	2 †	1	3	2 †	1
0	1456	1322	1170	1351	1189	1015
0.1	1417	1288	1140	1316	1164	990
0.2	1375	1254	1107	1279	1131	963
0.3	1328	1214	1075	1236	1100	938
0.4	1278	1179	1045	1197	1056	916
0.5	1239	1150	1018	1171	1030	888
0.6	1212	1117	983	1137	991	852
0.7	1164	1071	936	1092	948	807
0.8	1107	1017	877	1036	895	748
0.9	1040	942	799	967	828	688
1.0	953	843	724	882	753	608

NOTES:

1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

GAM2A0A36S31S MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 1	Tap 1
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 1	Tap 1
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 2 ①	Tap 2 ①
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3 ②	Tap 2 ②
BAYEAAC10LG3AA	Tap 1	Tap 1
BAYEABC15BK1AA	Tap 3	Tap 2
BAYEABC15LG3AA	Tap 3	Tap 1
BAYEABC20BK1AA	-	-

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS

① Heater not approved for Horizontal Left installations. Upflow installation approved for 240 Volts only.

② Approved for 240 Volts only. Approved for Upflow only.

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.

AIRFLOW PERFORMANCE						
GAM2A0B42S31S						
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)					
	Speed Taps - 230 VOLTS			Speed Taps - 208 VOLTS		
	3	2 †	1	3	2 †	1
0	1646	1495	1358	1522	1298	1138
0.1	1599	1464	1335	1489	1285	1137
0.2	1546	1421	1313	1449	1260	1120
0.3	1488	1380	1280	1401	1233	1099
0.4	1425	1329	1233	1348	1193	1065
0.5	1353	1264	1178	1281	1140	1023
0.6	1259	1182	1108	1202	1075	958
0.7	1145	1081	995	1102	965	868
0.8	982	909	839	926	817	753
0.9	788	759	731	761	713	N/A
1.0	563	N/A	N/A	538	N/A	N/A

NOTES:
1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

GAM2A0B42S31S MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 1	Tap 1
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 1	Tap 1
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 1	Tap 1
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 1	Tap 1
BAYEAAC10LG3AA	Tap 1	Tap 1
BAYEABC15BK1AA	Tap 1	Tap 1
BAYEABC15LG3AA	Tap 3 ①	Tap 1 ①
BAYEABC20BK1AA	Tap 3	Tap 1

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS
① Heater not qualified for 240V in downflow installations

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.

AIRFLOW PERFORMANCE						
GAM2A0C48S41S						
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)					
	Speed Taps - 230 VOLTS			Speed Taps - 208 VOLTS		
	3	2 †	1	3	2 †	1
0	1904	1711	1541	1652	1455	1305
0.1	1881	1687	1529	1640	1450	1288
0.2	1844	1666	1511	1619	1425	1271
0.3	1806	1637	1485	1592	1410	1249
0.4	1766	1602	1454	1559	1381	1231
0.5	1716	1560	1420	1524	1351	1198
0.6	1659	1513	1380	1484	1321	1165
0.7	1594	1458	1333	1434	1283	1127
0.8	1525	1395	1277	1376	1229	1067
0.9	1442	1310	1194	1304	1149	N/A
1.0	1345	N/A	N/A	1194	N/A	N/A

NOTES:

1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

GAM2A0C48S41S MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 1	Tap 1
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 1	Tap 1
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 1	Tap 1
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 1	Tap 1
BAYEAAC10LG3AA	Tap 1 ①	Tap 1 ①
BAYEABC15BK1AA	Tap 1	Tap 1
BAYEABC15LG3AA	Tap 1	Tap 1
BAYEABC20BK1AA	Tap 1	Tap 1
BAYEACC25BK1AA	Tap 3	Tap 2 ②

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS

① Heater not qualified for 208V in upflow installations

② Not approved for 208 Volts

Note: Heating and cooling speeds are the same, factory set at Speed Tap #2.

AIRFLOW PERFORMANCE										
GAM2A0C60S51S										
EXTERNAL STATIC (in w.g)	AIRFLOW (CFM)									
	Speed Taps - 230 VOLTS					Speed Taps - 208 VOLTS				
	5	4 †	3	2	1	5	4 †	3	2	1
0	2169	1956	1874	1739	1633	2165	2033	1871	1736	1629
0.1	2161	1916	1839	1696	1588	2155	1990	1833	1690	1582
0.2	2130	1889	1803	1667	1554	2121	1961	1795	1659	1545
0.3	2102	1850	1774	1628	1523	2090	1919	1763	1617	1511
0.4	2066	1818	1741	1596	1491	2052	1884	1727	1582	1477
0.5	2015	1785	1707	1564	1457	1998	1848	1690	1547	1440
0.6	1959	1754	1673	1520	1408	1939	1814	1653	1500	1389
0.7	1888	1716	1638	1477	1372	1880	1774	1615	1455	1349
0.8	1811	1680	1605	1440	1323	1820	1735	1580	1415	1298
0.9	1750	1628	1561	1403	1291	1770	1680	1533	1376	1263
1.0	1680	1604	1533	1368	1256	1725	1654	1503	1337	1226

NOTES:
1. Values are with wet coil and without filters.
2. Contact your particular filter manufacturer for pressure drop data.
3. Electric heater pressure drop is negligible and is included within the airflow data.
4. † Factory Setting

GAM2A0C60S51S MINIMUM HEATER AIRFLOW CFM		
Heater	Minimum Air Speed Tap	
	With Heat Pump	Without Heat Pump
BAYEAAC04BK1AA BAYEAAC04LG1AA	Tap 2	Tap 2
BAYEAAC05BK1AA BAYEAAC05LG1AA	Tap 2	Tap 2
BAYEAAC08BK1AA BAYEAAC08LG1AA	Tap 3	Tap 2
BAYEAAC10BK1AA BAYEAAC10LG1AA	Tap 3	Tap 2
BAYEAAC10LG3AA	Tap 1	Tap 1
BAYEABC15BK1AA	Tap 4	Tap 3
BAYEABC15LG3AA	Tap 1	Tap 1
BAYEABC20BK1AA	Tap 4	Tap 3
BAYEACC25BK1AA	Tap 5	Tap 4

SEE AIR HANDLER NAMEPLATE OR PRODUCT DATA FOR EXCEPTIONS

Note: Heating and cooling speeds are the same, factory set at Speed Tap #4 for the CTM motor.

WIRING DATA											
GAM2A0A18S11S											
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	-	-	-	2.0**	3	15	-	-	2.0**	3	15
BAYEAAC04++1	1	3.84	13100	16	23	25	2.88	9800	13.80	20	20
BAYEAAC05++1	1	4.80	16400	20	28	30	3.60	12300	17.30	24	25
BAYEAAC08++1	1	7.68	26200	32	43	45	5.76	19700	27.70	37	40
BAYEAAC10++1	1	9.60	32800	40	53	60	7.20	24600	34.60	46	50
BAYEAAC10LG3	1-3PH	9.60	32800	23.1	31	35	7.20	24600	20.00	27	30

Note: ** Motor Amps

WIRING DATA											
GAM2A0A24S21S											
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	-	-	-	1.3**	2	15	-	-	1.3**	2	15
BAYEAAC04++1	1	3.84	13100	16	22	25	2.88	9800	13.80	19	20
BAYEAAC05++1	1	4.80	16400	20	27	30	3.60	12300	17.30	23	25
BAYEAAC08++1	1	7.68	26200	32	42	45	5.76	19700	27.70	36	40
BAYEAAC10++1①	1	9.60	32800	40	52	60	7.20	24600	34.60	45	45
BAYEAAC10LG3	1-3PH	9.60	32800	23.1	30	30	7.20	24600	20.00	26	30

Note: ** Motor Amps
① For heat pump, minimum Speed Tap is 3 for Horizontal Left only.

WIRING DATA											
GAM2A0A30S21S											
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	-	-	-	1.7**	2	15	-	-	1.7**	2	15
BAYEAAC04++1	1	3.84	13100	16	22	25	2.88	9800	13.80	19	20
BAYEAAC05++1	1	4.80	16400	20	27	30	3.60	12300	17.3	24	25
BAYEAAC08++1	1	7.68	26200	32	42	45	5.76	19700	27.7	37	40
BAYEAAC10++1	1	9.60	32800	40	52	60	7.20	24600	34.6	45	45
BAYEAAC10LG3	1-3PH	9.60	32800	23.1	31	35	7.20	24600	20.00	27	30
BAYEABC15LG3 ①	1-3PH	14.40	49200	34.6	45	45	10.80	36900	30.00	39	40
BAYEABC15++1	2										
circuit 1		9.60	32800	40	52	60	7.20	24600	34.6	45	45
circuit 2		4.80	16400	20	25	25	3.60	12300	17.3	22	25

Note: ** Motor Amps
① Heater not qualified for 240V in downflow installations.

WIRING DATA											
GAM2A0A36S31S											
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	-	-	-	2.4**	3	15	-	-	2.4**	3	15
BAYEAC04++1	1	3.84	13100	16	23	25	2.88	9800	13.80	20	20
BAYEAC05++1	1	4.80	16400	20	28	30	3.60	12300	17.3	25	25
BAYEAC08++1 ①	1	7.68	26200	32	43	45	5.76	19700	27.7	38	40
BAYEAC10++1 ②	1	9.60	32800	40	53	60	N/A ②	N/A ②	N/A ②	N/A ②	N/A ②
BAYEAC10LG3	1-3PH	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYEABC15LG3	1-3PH	14.40	49200	34.6	46	50	10.80	36900	30.0	40	40
BAYEABC15++1	2										
circuit 1		9.60	32800	40	53	60	7.20	24600	34.6	46	50
circuit 2		4.80	16400	20	25	25	3.60	12300	17.3	22	25

Note: ** Motor Amps
① Heater not approved for Horizontal Left installations. Upflow Installation approved for 240 Volts only.
② Approved for 240 Volts only. Approved for Upflow only.

WIRING DATA											
GAM2A0B42S31S											
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	-	-	-	2.7**	3	15	-	-	2.7**	3	15
BAYEAC04++1	1	3.84	13100	16	23	25	2.88	9800	13.80	21	25
BAYEAC05++1	1	4.80	16400	20	28	30	3.60	12300	17.3	25	25
BAYEAC08++1	1	7.68	26200	32	43	45	5.76	19700	27.7	38	40
BAYEAC10++1	1	9.60	32800	40	53	60	7.20	24600	34.6	47	50
BAYEAC10LG3	1-3PH	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYEABC15LG3 ①	1-3PH	14.40	49200	34.6	46	50	10.80	36900	30.0	40	40
BAYEABC15++1	2										
circuit 1		9.60	32800	40	53	60	7.20	24600	34.6	47	50
circuit 2		4.80	16400	20	25	25	3.60	12300	17.3	22	25
BAYEABC20++1	2										
circuit 1		9.60	32800	40	53	60	7.20	24600	34.6	53	60
circuit 2		9.60	32800	40	50	50	7.20	24600	34.6	43	45

Note: ** Motor Amps
① Heater not qualified for 240V in downflow installations

WIRING DATA

GAM2A0C48S41S

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	-	-	-	3.1**	4	15	-	-	3.1**	4	15
BAYEAAC04++	1	3.84	13100	16	24	25	2.88	9800	13.80	21	25
BAYEAAC05++	1	4.80	16400	20.0	29	30	3.60	12300	17.3	26	30
BAYEAAC08++	1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40
BAYEAAC10++	1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYEAAC10LG3①	1-3PH	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYEABC15LG3	1-3PH	14.40	49200	34.6	47	50	10.80	36900	30.0	41	45
BAYEABC15++	2										
circuit 1		9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEABC20++	2										
circuit 1		9.60	32800	40.0	54	60	7.20	24600	34.6	53	60
circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYEABC25++ ②	3										
circuit 1		9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
circuit 3		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25

Note: ** Motor Amps

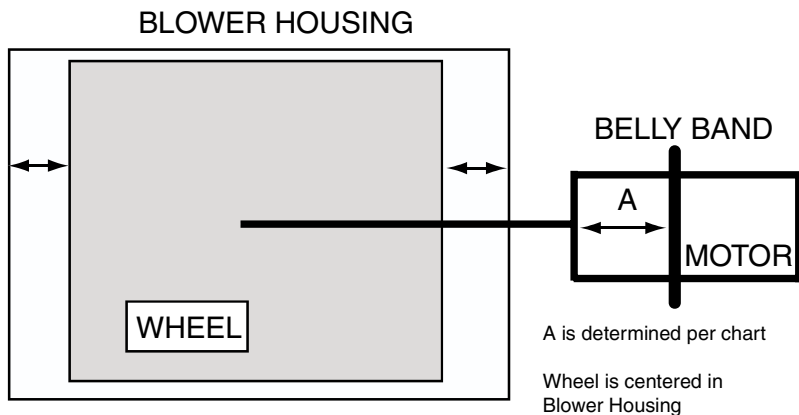
① Heater not qualified for 208V in upflow installations

② Not approved for 208 Volt without Heat Pump

WIRING DATA											
GAM2A0C60S51S											
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	-	-	-	7.6**	10	15	-	-	7.6**	10	15
BAYEAAC04++	1	3.84	13100	16	30	30	2.88	9800	13.80	27	30
BAYEAAC05++	1	4.80	16400	20.0	35	35	3.60	12300	17.3	31	35
BAYEAAC08++	1	7.68	26200	32.0	50	50	5.76	19700	27.7	44	45
BAYEAAC10++	1	9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
BAYEAAC10LG3	1-3PH	9.60	32800	23.1	37	40	7.20	24600	20.0	34	35
BAYEABC15LG3	1-3PH	14.40	49200	34.6	52	60	10.80	36900	30.0	46	50
BAYEABC15++	2										
circuit 1		9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEABC20++	2										
circuit 1		9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYEABC25++	3										
circuit 1		9.60	32800	40.0	60	60	7.20	24600	34.6	53	60
circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
circuit 3		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25

Note: ** Motor Amps

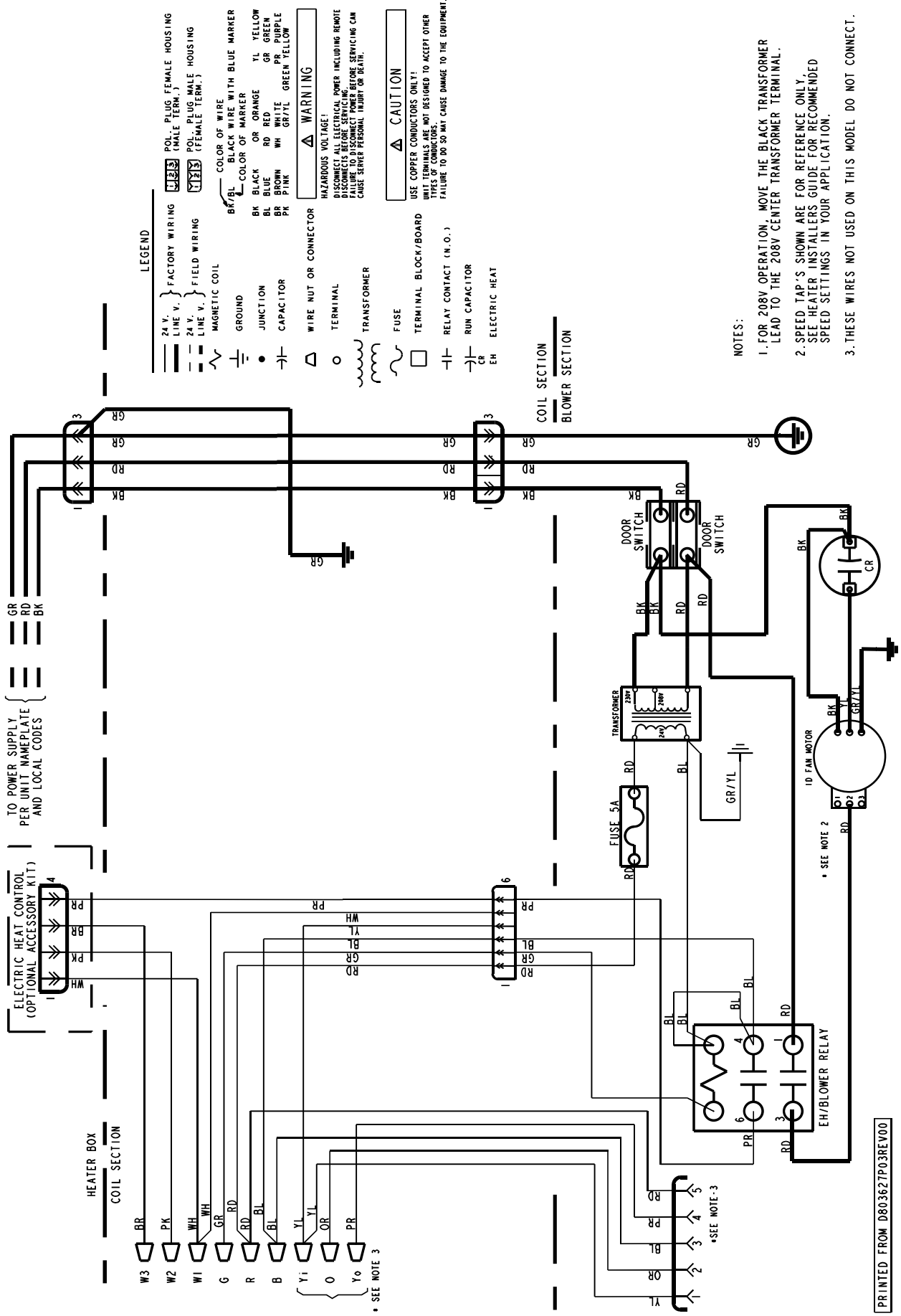
DISTANCE FROM BELLY BAND TO SHAFT FACE OF MOTOR FOR MINIMUM VIBRATION



MODEL	DIM "A"
GAM2A0A18S11SB	1-1/8
GAM2A0A24S21SB	2-11/16
GAM2A0A30S21SB	1-9/16
GAM2A0A36S31SB	1-11/16
GAM2A0B42S31SB	3
GAM2A0C48S41SB	2-13/16
GAM2A0C60S51SB	2-1/4

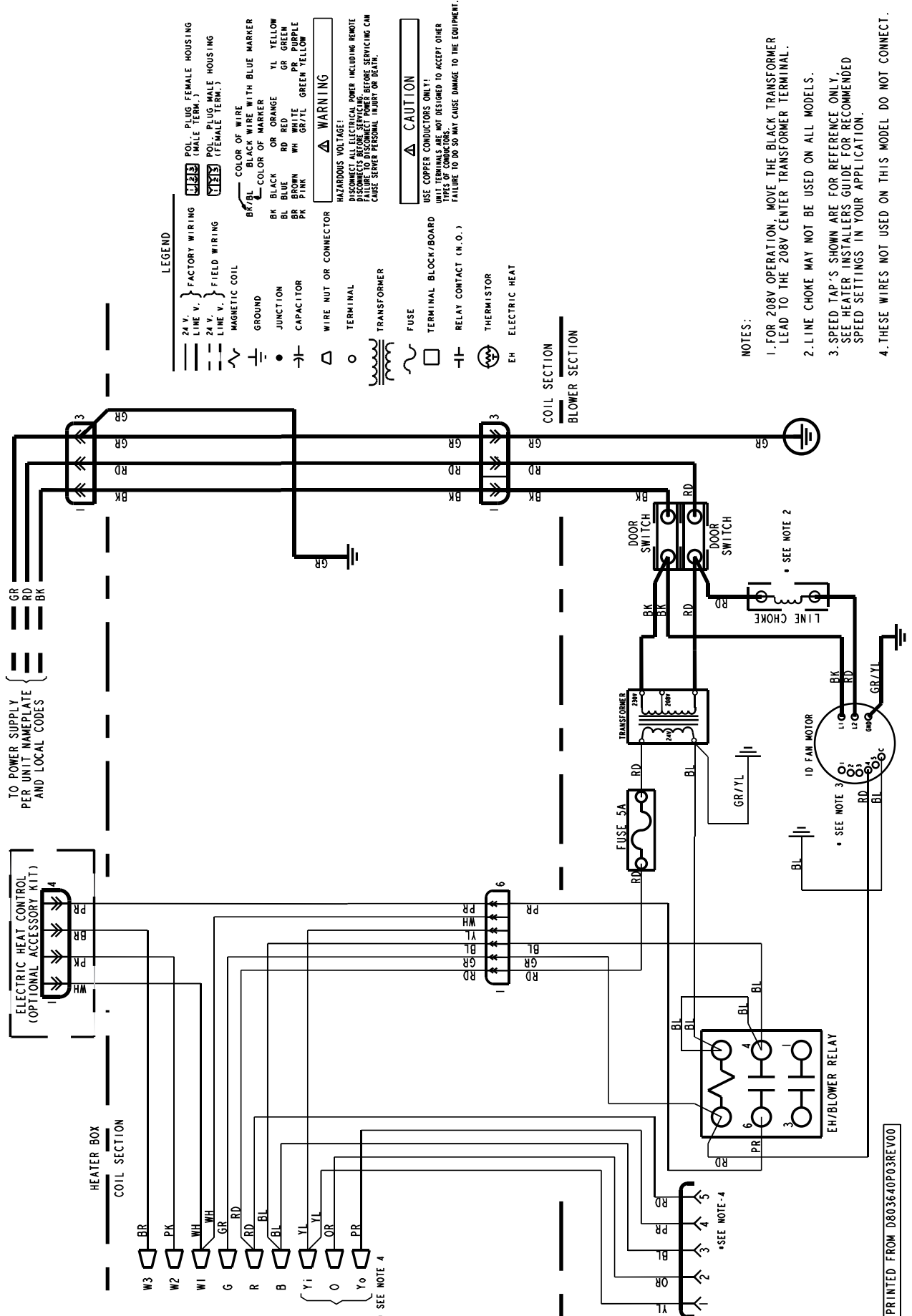
For factory OEM motors
Note: 14th digit may be A-D

WIRING DIAGRAM FOR GAM2A0A18, GAM2A0A24, GAM2A0A30, GAM2A0A36, GAM2A0B42, and GAM2A0C48



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WIRING DIAGRAM FOR GAM2A0C60



LEGEND

24 V. LINE V. } FACTORY WIRING (POL. PLUG FEMALE HOUSING (MALE TERM.))
 24 V. LINE V. } FIELD WIRING (POL. PLUG MALE HOUSING (FEMALE TERM.))
 MAGNETIC COIL
 GROUND
 JUNCTION
 CAPACITOR
 WIRE NUT OR CONNECTOR
 TERMINAL
 TRANSFORMER
 FUSE
 TERMINAL BLOCK/BOARD
 RELAY CONTACT (N.O.)
 THERMISTOR
 EH ELECTRIC HEAT

COLOR OF WIRE
 BK BLACK
 RD RED
 BR BROWN
 PK PINK
 WH WHITE
 GR/YL GR/YL
 GR GREEN
 OR ORANGE
 YL YELLOW
 GRN GREEN
 PR PURPLE
 GR/YL GR/YL
 GRN GREEN
 YL YELLOW

WARNING
 HAZARDOUS VOLTAGE!
 DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
 FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

CAUTION
 USE COPPER CONDUCTORS ONLY!
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

NOTES:

- FOR 208V OPERATION, MOVE THE BLACK TRANSFORMER LEAD TO THE 208V CENTER TRANSFORMER TERMINAL.
- LINE CHOKE MAY NOT BE USED ON ALL MODELS.
- SPEED TAP'S SHOWN ARE FOR REFERENCE ONLY, SEE HEATER INSTALLERS GUIDE FOR RECOMMENDED SPEED SETTINGS IN YOUR APPLICATION.
- THESE WIRES NOT USED ON THIS MODEL DO NOT CONNECT.

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SEQUENCE OF OPERATION FOR GAM2 AIR HANDLERS

GAM2 Sequence of Operation

NOTE: Models with a constant torque motor (5 ton / GAM2A0C60S51SB) do not use blower relay contacts 1 & 3 to energize the motor. The 24VAC signal from the G wiring provides the necessary power to energize the motor.

See unit, electric heat, and field wiring diagrams for additional information.

Continuous Fan

1. R-G contacts close on comfort control sending 24VAC to the blower relay
2. Relay contacts 1 and 3 close.
3. The blower will now run on the selected speed. Speed is field selectable.

Heatpump OD (cooling)

1. R-Y contacts close on the comfort control sending 24VAC to the OD unit.
2. R-G contacts close on comfort control sending 24VAC to the blower relay
3. Relay contacts 1 and 3 close
4. The blower will now run on the selected speed. Speed is field selectable
5. R-O contacts on the comfort control close sending 24VAC to the switch over valve on the OD unit.

Heatpump OD (heating)

1. R-Y contacts close on the comfort control sending 24VAC to the OD unit.
2. R-G contacts close on comfort control sending 24VAC to the blower relay
3. Relay contacts 1 and 3 close.
4. The blower will now run on the selected speed. Speed is field selectable.

Cooling OD

1. R-Y contacts close on the comfort control sending 24VAC to the OD unit.
2. R-G contacts close on comfort control sending 24VAC to the blower relay
3. Relay contacts 1 and 3 close
4. The blower will now run on the selected speed. Speed is field selectable

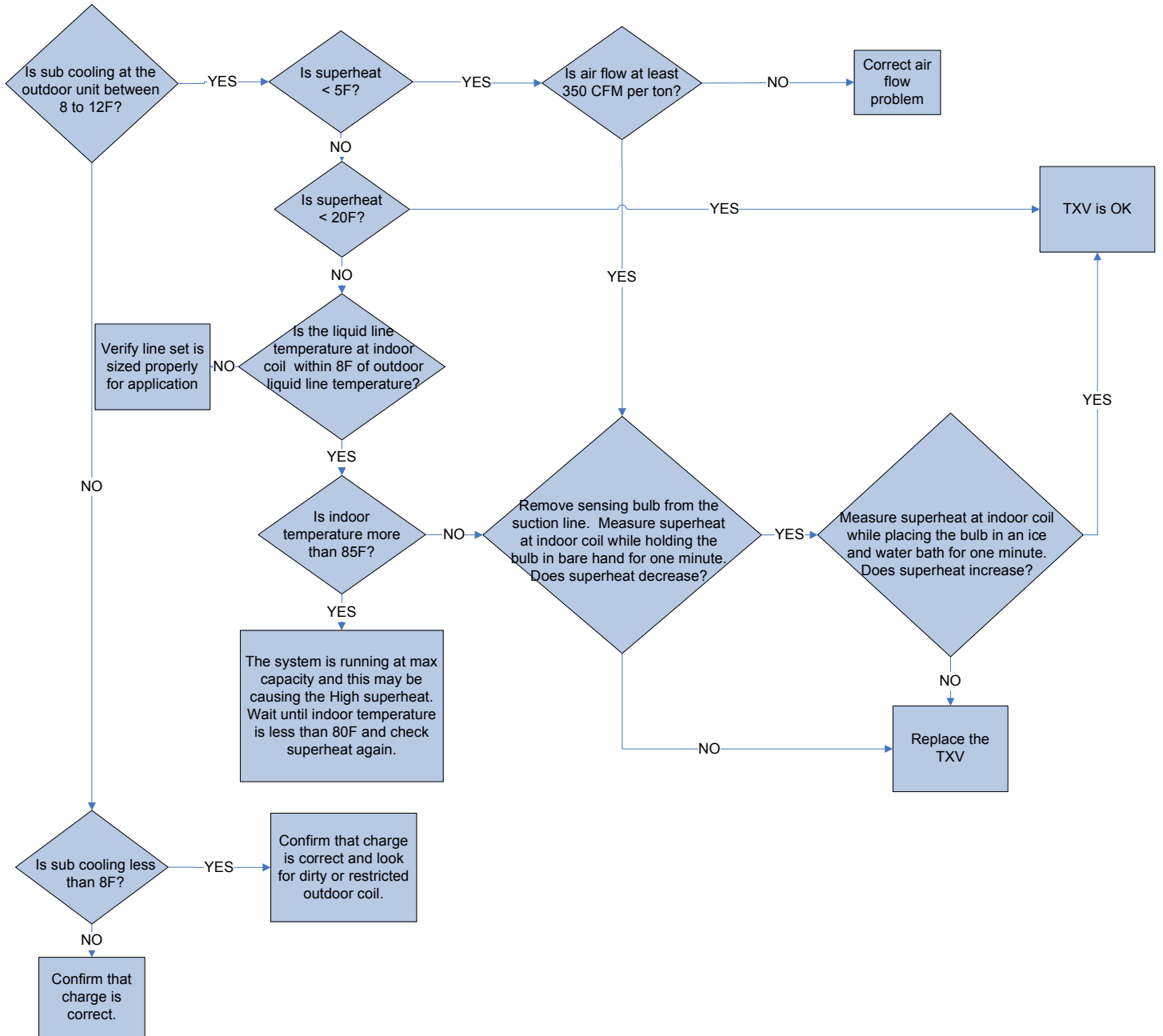
Electric Heating

1. R-W contacts close on the comfort control sending 24VAC to the EHC (Electric Heat Control) to energize the heat relay.
2. R-G contacts close on comfort control sending 24VAC to the blower relay
3. Relay contacts 1 and 3 close
4. The blower will now run on the selected speed. Speed is field selectable
5. Contacts 4 & 6 on the blower relay close providing the interlock circuit to allow the electric heat relays to operate

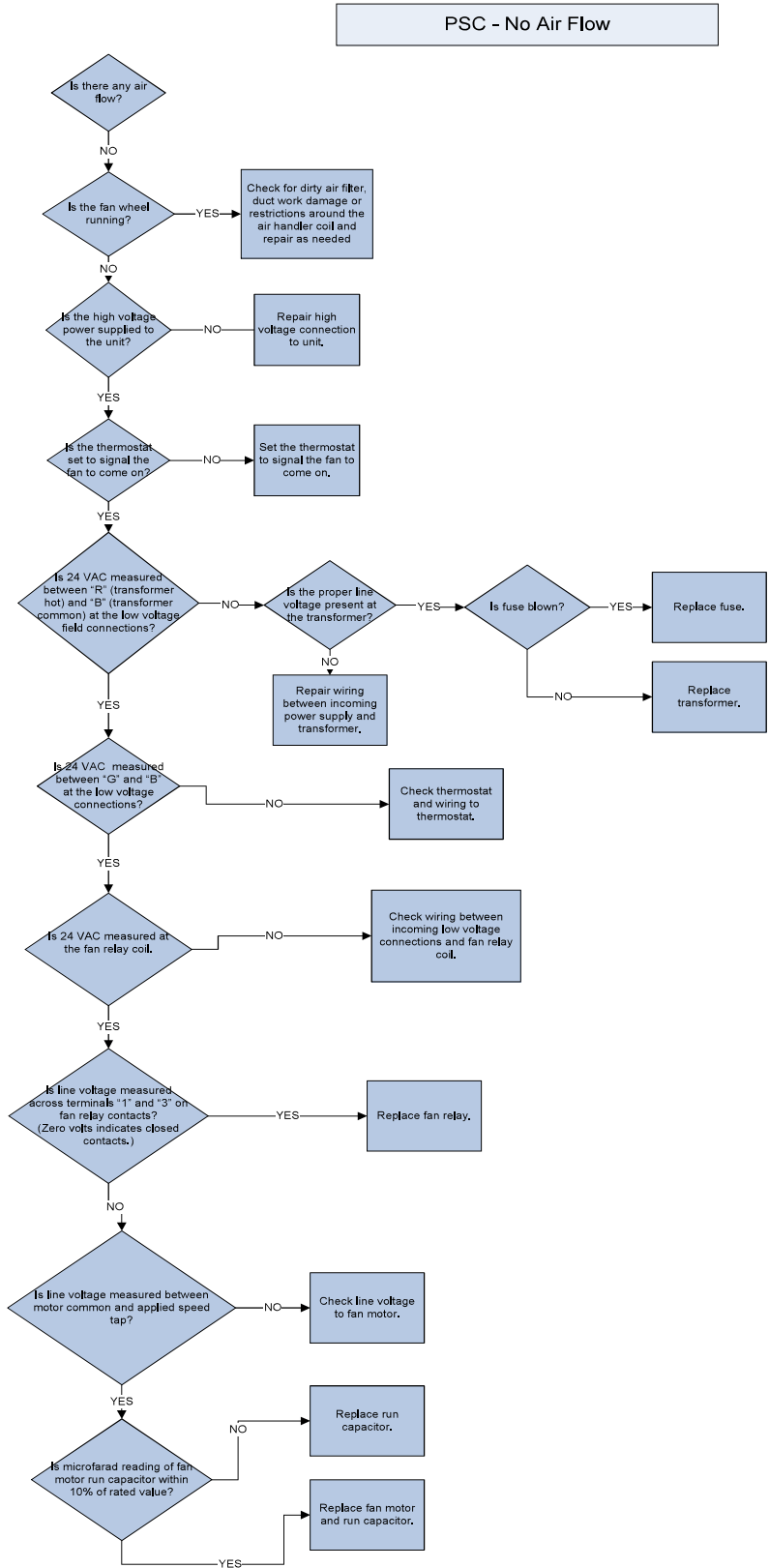
Important: The comfort control must be setup to control R-G contacts with a call for electric heat. This closes the interlock circuit and allows the heat relay circuit to be energized.

Before starting, insure the blower wheel, indoor and outdoor coils are clean.

Troubleshooting Indoor TXV / Cooling Mode



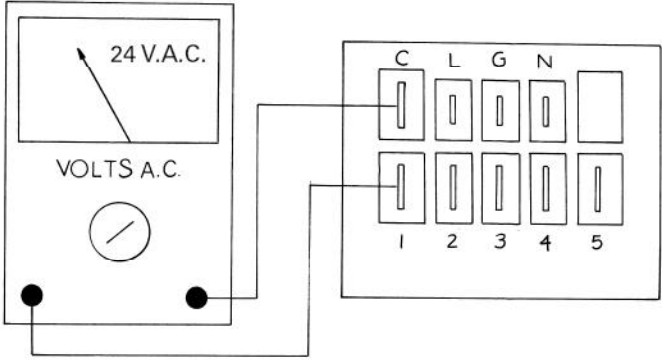
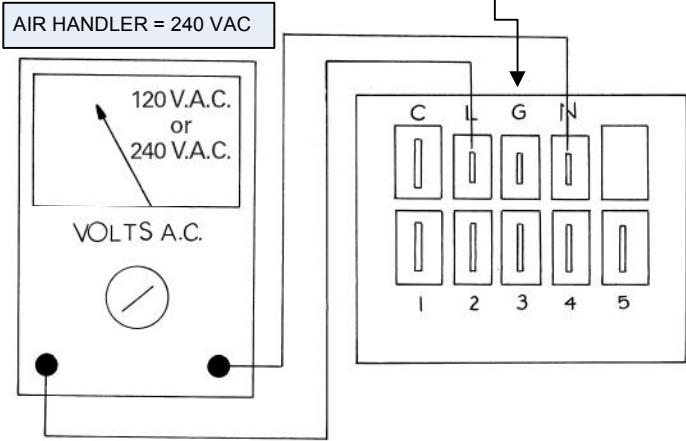
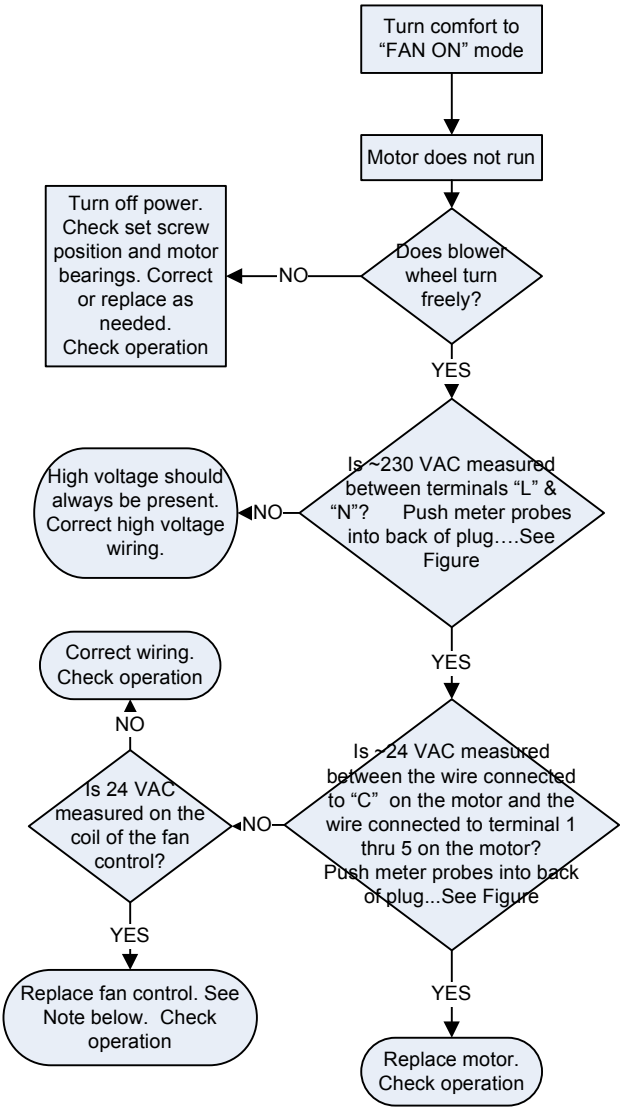
PSC MOTOR TROUBLESHOOTING FOR GAM2A0A18 THROUGH GAM2A0C48



CONSTANT TORQUE MOTOR TROUBLESHOOTING FOR GAM2A0C60

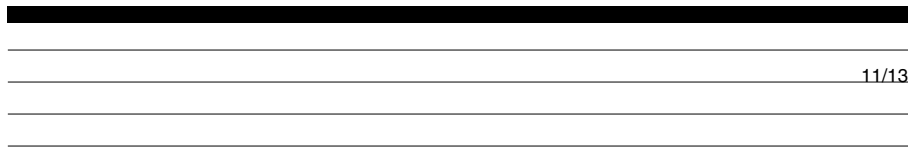
Constant Torque Motor Troubleshooting

This terminal block is located on the motor. Look for labels below on the motor side of the connection.



Trane
6200 Troup Highway
Tyler, TX 75707
www.trane.com

*For more information contact
your local dealer (distributor)*



The manufacturer has a policy of continuous product and product data improvement, and it reserves the right to change design and specifications without notice.