

Hyperion - Field Reference Data - TAM7

Air Handler - Convertible

Models: Series 7 Air Handlers 2-5 Ton

*AM7A0A24H21SA, *AM7A0B30H21SA

*AM7A0C36H31SA, *AM7A0C42H31SA

*AM7A0C48H41SA, *AM7A0C60H51SA

* May be "A" or "T"

For use with BAYEV or BAYW 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.

⚠ 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	*AM7A0A24H21SA	*AM7A0B30H21SA	*AM7A0C36H31SA
RATED VOLTS/PH/HZ.	200-230/1/60	200-230/1/60	200-230/1/60
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	3 - 14
Face Area (sq. ft.)	3.67	5.04	5.50
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	EEV	EEV	EEV
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.)	11 X 8	11 X 10	11 X 10
No. Used	1	1	1
Drive - No. Speeds	Direct - Variable	Direct - Variable	Direct - Variable
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 - 1/2
Motor Speed RPM	Variable ECM	Variable ECM	Variable ECM
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps	3.0	3.0	3.0
FILTER			
Filter Furnished?	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway
No.-Size-Thickness	1 - 16 X 20 - 1 in.	1 - 20 X 20 - 1 in.	1 - 22 X 20 - 1 in.
REFRIGERANT	R-410A	R-410A	R-410A
Ref. Line Connections	Brazed	Brazed	Brazed
Coupling or Conn. Size — in. Gas	3/4	3/4	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.)	51.5 x 19.0 x 23.5	56.5 x 23 x 23.5	57.25 x 25.25 x 23.5
Uncrated	49.9 x 17.5 x 21.75	55.7 x 21.3 x 21.75	56.9 x 23.5 x 21.75
WEIGHT			
Shipping (Lbs.)/Net (Lbs.)	127/116	150/138	157/146

PRODUCT SPECIFICATIONS

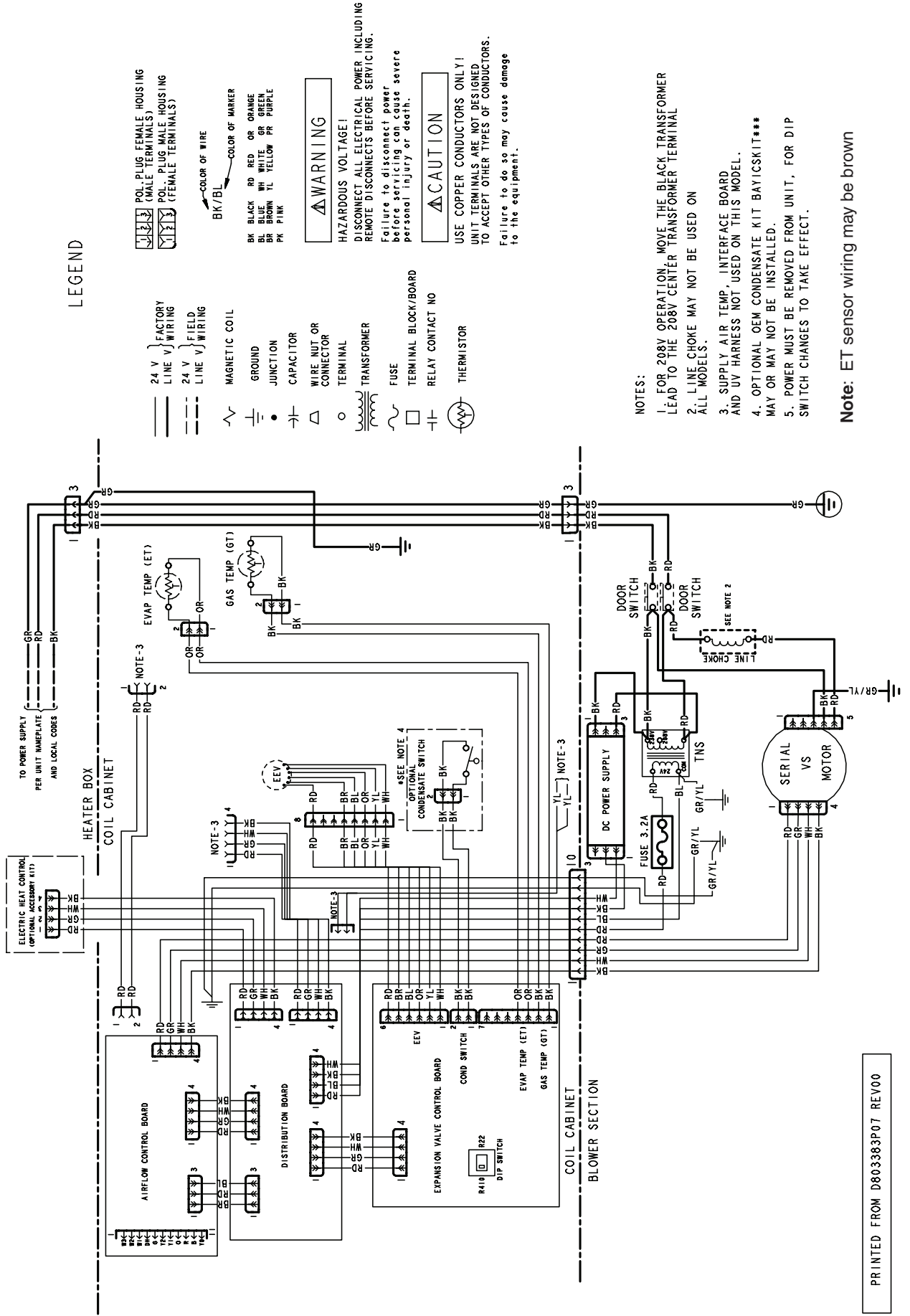
MODEL	*AM7A0C42H31SA	*AM7A0C48H41SA	*AM7A0C60H51SA
RATED VOLTS/PH/HZ.	200-230/1/60	200-230/1/60	200-230/1/60
RATINGS ①	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
INDOOR COIL — Type	Plate Fin	Plate Fin	Plate Fin
Rows — F.P.I.	4 - 14	4 - 14	4 - 14
Face Area (sq. ft.)	5.04	5.96	5.96
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	EEV	EEV	EEV
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.)	11 X 10	11 X 10	11 X 10
No. Used	1	1	1
Drive - No. Speeds	Direct - Variable	Direct - Variable	Direct - Variable
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 - 3/4	1 - 3/4
Motor Speed RPM	Variable ECM	Variable ECM	Variable ECM
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps	3.0	4.2	5.5
FILTER			
Filter Furnished?	No	No	No
Type Recommended	Throwaway	Throwaway	Throwaway
No.-Size-Thickness	1 - 22 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	Brazed	Brazed	Brazed
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.)	57.25 x 25.25 x 23.5	62.75 x 25.25 x 23.5	62.75 x 25.25 x 23.5
Uncrated	56.9 x 23.5 x 21.75	61.7 x 23.5 x 21.75	61.7 x 23.5 x 21.75
WEIGHT			
Shipping (Lbs.)/Net (Lbs.)	162/151	175/163	175/163

* May be "A" or "T"

① These Air Handlers are AHRI certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD 210/240).

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

WIRING DIAGRAM FOR *AM7 AIR HANDLERS



LEGEND

- 24 V LINE V } FACTORY WIRING
- 24 V LINE V } FIELD WIRING
- MAGNETIC COIL
- GROUND
- JUNCTION
- CAPACITOR
- WIRE NUT OR CONNECTOR
- TERMINAL
- TRANSFORMER
- FUSE
- TERMINAL BLOCK/BOARD
- RELAY CONTACT NO
- THERMISTOR



- BK/BL ← COLOR OF MARKER
- BK BLACK
 - RD RED
 - OR ORANGE
 - BL BLUE
 - WH WHITE
 - GR GREEN
 - BR BROWN
 - YL YELLOW
 - PR PURPLE
 - PK PINK

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.
- SUPPLY AIR TEMP, INTERFACE BOARD AND UV HARNESS NOT USED ON THIS MODEL.
- OPTIONAL OEM CONDENSATE KIT BAYC/SKIT*** MAY OR MAY NOT BE INSTALLED.
- POWER MUST BE REMOVED FROM UNIT, FOR DIP SWITCH CHANGES TO TAKE EFFECT.

Note: ET sensor wiring may be brown

SEQUENCE OF OPERATION FOR *AM7 AIR HANDLERS

AM7 Sequence of Operation

Abbreviations

- AFC = Airflow Control
- EVC = Expansion Valve Control
- EEV = Electronic Expansion Valve
- EHC = Electric Heat Control
- Y1 = Y signal from the comfort control
- YO = Y signal out of the AFC from the comfort control
- Y2 = Y2 signal from comfort control

This unit has unique a feature that receives 24VAC analog inputs from a conventional comfort control and then converts these inputs to serial communicating signals between the different controls within the air handler.

The installing and servicing technician should have an understanding of the sequence of operation to be able to properly setup and diagnose functions of the air handler.

The dip switch settings on the control boards must be properly set to obtain the correct sequence of operation. Reference the air handler and electric heat wiring diagrams and dip switch configuration chart for additional information.

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

Continuous Fan

IMPORTANT: *If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the indoor fan only be used in the AUTO mode.*

1. R-G contacts close on comfort control sending 24VAC to the G terminal of the AFC.
2. The AFC micro-processor sends a command to the serial communicating blower motor to run at 50%.

See airflow Dip Switch settings for additional info.

Heatpump OD Single Stage (heating mode)

1. R-Y contacts close on the comfort control sending 24VAC to Y1 terminal on the AFC.
2. Normally closed contacts on the AFC will pass 24VAC to the YO terminal providing power to the outdoor unit control circuit.
3. R-G contacts close on comfort control sending 24VAC to the G terminal of the AFC.
4. The AFC micro-processor sends a command to the serial communicating blower motor to run at 100%.

Heatpump OD Two Stage (heating mode)

1. R-Y1 contacts close on the comfort control sending 24VAC to Y1 terminal on the AFC.
2. Normally closed contacts on the AFC will pass 24VAC to the YO terminal providing power to the outdoor unit 1st stage control circuit.

3. R-G contacts close on comfort control sending 24VAC to the G terminal of the AFC.
4. The AFC micro-processor sends a command to the serial communicating blower motor to run at 1st stage heating cfm.
5. R-Y2 contacts close on the comfort control sending 24VAC to Y2 terminal on the AFC.
6. The Y2 signal is also passed through to provide power to the outdoor unit 2nd stage control circuit.
7. The blower motor will now run at 100% of the heating cfm.

OD Single Stage (cooling mode)

1. R-Y contacts close on the comfort control sending 24VAC to Y1 terminal on the AFC.
2. Normally closed contacts on the AFC will pass 24VAC to the YO terminal providing power to the outdoor unit control circuit.
 - a. Heatpump OD = R-O contacts close on the comfort control sending 24VAC to the O terminal of the AFC. The AFC communicates to the EVC that the system is in cooling mode. The O signal is passed through to the OD unit.
 - b. Non heatpump OD = OD dip switch configuration will communicate to the EVC to control superheat on a Y only signal.
3. R-G contacts close on comfort control sending 24VAC to the G terminal of the AFC.
4. The AFC micro-processor sends a command to the serial communicating blower motor to run at 100% of the cooling cfm.
5. The EVC will receive input from the two temperature sensors and start to control superheat.

OD Two Stage (cooling mode)

1. R-Y1 contacts close on the comfort control sending 24VAC to Y1 terminal on the AFC. The AFC communicates to the EVC to control superheat for 1st stage.
2. Normally closed contacts on the AFC will pass 24VAC to the YO terminal providing power to the outdoor unit 1st stage control circuit.
 - a. Heatpump OD = R-O contacts close on the comfort control sending 24VAC to the O terminal of the AFC. The AFC communicates to the EVC that the system is in cooling mode. The O signal is passed through to the OD unit.
 - b. Non heatpump OD = OD dip switch configuration will communicate to the EVC to control superheat on a Y only signal.
3. R-G contacts close on comfort control sending 24VAC to the G terminal of the AFC.
4. The AFC micro-processor sends a command to the serial communicating blower motor to run at the 1st stage cooling cfm. (1st stage cooling cfm is a multiplier of 2nd stage cfm)
5. The EVC will receive input from the two temperature sensors and start to control 1st stage superheat.

6. R-Y2 contacts close on the comfort control sending 24VAC to Y2 terminal on the AFC. The AFC communicates to the EVC to control superheat for 2nd stage.
7. The Y2 signal is passed through to provide power to the outdoor unit 2nd stage control circuit.
8. The blower motor will now run at 100% of the cooling cfm.

Cooling OD 1 stage

1. R-Y contacts close on the comfort control sending 24VAC to Y1 terminal on the AFC.
2. Normally closed contacts on the AFC will pass 24VAC to the YO terminal providing power to the outdoor unit control circuit.
3. R-G contacts close on comfort control sending 24VAC to the G terminal of the AFC.
4. The AFC micro-processor sends a command to the serial communicating blower motor to run at 100% of the cooling cfm.
5. The EVC will receive input from the two temperature sensors and start to control superheat.

Cooling OD Two stage

1. R-Y1 contacts close on the comfort control sending 24VAC to Y1 terminal on the AFC. The AFC communicates to the EVC to control superheat for 1st stage.
2. Normally closed contacts on the AFC will pass 24VAC to the YO terminal providing power to the outdoor unit 1st stage control circuit.
3. R-G contacts close on comfort control sending 24VAC to the G terminal of the AFC.
4. The AFC micro-processor sends a command to the serial communicating blower motor to run at the 1st stage cooling cfm. (1st stage cooling cfm is a multiplier of 2nd stage cfm)
5. The EVC will receive input from the two temperature sensors and start to control 1st stage superheat.
6. R-Y2 contacts close on the comfort control sending 24VAC to Y2 terminal on the AFC. The AFC communicates to the EVC to control superheat for 2nd stage.
7. The Y2 signal is passed through to provide power to the outdoor unit 2nd stage control circuit.
8. The blower motor will now run at 100% of the cooling cfm.

Electric Heat

1. R-W contacts close on the comfort control sending 24VAC to W1 of the AFC.
2. R-G contacts close on the comfort control sending 24VAC to G of the AFC.
3. The AFC communicates to the EHC that 1st stage electric heat is being called upon.
4. The EHC determines the number of elements that are used for 1st stage and sends a message to the AFC for that correct cfm. (The EHC determines the amount of heat per stage by either factory programming or by the kw jumper position)

5. The AFC micro-processor sends a command to the serial communicating blower motor to run and close the blower interlock relay on the EHC. The blower motor will now run at the W1 electric heat cfm.
6. On subsequent calls for W2 and/or W3, the EHC will communicate to the AFC the required airflow request and energize the additional relays.

NOTE: The EHC has “lead-lag” logic built in that energizes the electric heat relays based upon cycle counts.

For example: BAYEV**15 – The first time W1 only is energized; the K1 relay would close and energize the “A” heater. The second time W1 only is energized; the K2 relay would close and energize the “B” heater. The third time W1 only is energized; the K3 relay would close and energize the “C” heater.

Defrost

1. The OD unit will initiate defrost and send 24VAC to the O terminal of the AFC.
2. The AFC will communicate to the EVC that the OD is in defrost and the EVC will start to maintain the correct superheat.
3. X2 from the OD will send 24VAC to W1 of the AFC.
4. The AFC communicates to the EHC that 1st stage electric heat is being called upon.
5. The EHC determines the number of elements that are used for 1st stage and sends a message to the AFC for that correct cfm.

Optional Condensate Switch

1. An optional OEM condensate switch can be installed within the unit. This switch is only available through the National Distribution Center or Global Parts.
2. Switch contacts are normally open and close when water level rises. The closed switch will interrupt current flow to the YO terminal and de-energize the OD unit.
3. Switch is only operational during cooling mode. Condensate overflow is not operational during heating or defrost modes.

Standard aftermarket condensate switches cannot be used within the unit but can be installed exterior of the unit. Switch should be wired in series with YO wiring to the OD unit.

Freeze Protection

1. The EVC control has the ability to sense when the coil is beginning to ice. When this event occurs, the contacts to the YO circuit will open and de-energize the OD unit.
2. The indoor blower motor will continue to run to aid in defrosting the coil. After 20 minutes, the YO contacts will close and cooling operation will begin again.

Blower Delays

1. Blower delays can be set to enhance system efficiency. See S2 dip switch settings table.

Unit Test Mode

Unit Test Mode will exit if any demand is given to the unit.

To enter Unit Test Mode:

1. Set System Switch on comfort control to Off
2. Cycle power to the unit, wait 5 seconds
3. Within thirty seconds, press and hold the Unit Test Button for 1-2 seconds

Sequence of Unit Test Mode

1. EVC drives the EEV motor to the 1st stage position for 5 seconds
2. EVC drives the EEV motor to the 2nd stage position for 5 seconds
3. AFC energizes the blower at 50% and then continues to ramp until it reaches 100% cooling airflow. Humidifier contacts close when the blower starts
4. EHC energizes the W1, W2, and W3 circuit relay(s) for 5 seconds in 5 second intervals
5. All relays de-energize and the blower shuts off after five seconds.

If a fault occurs during the Unit Test Mode, the LED will flash the code and continue the test

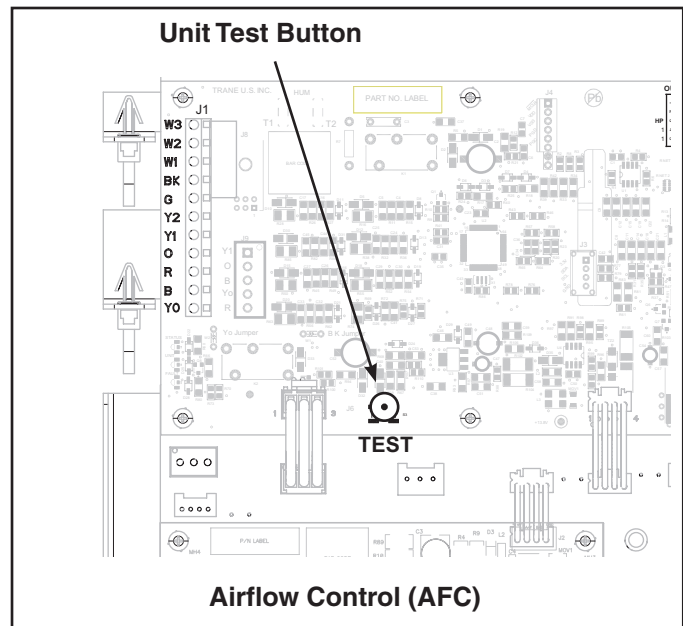
Fault Reporting

This unit stores the last four faults that have occurred. Each device will report the last four faults after each power cycle of the unit. See the Fault Table section in the Service Facts for a list of fault codes

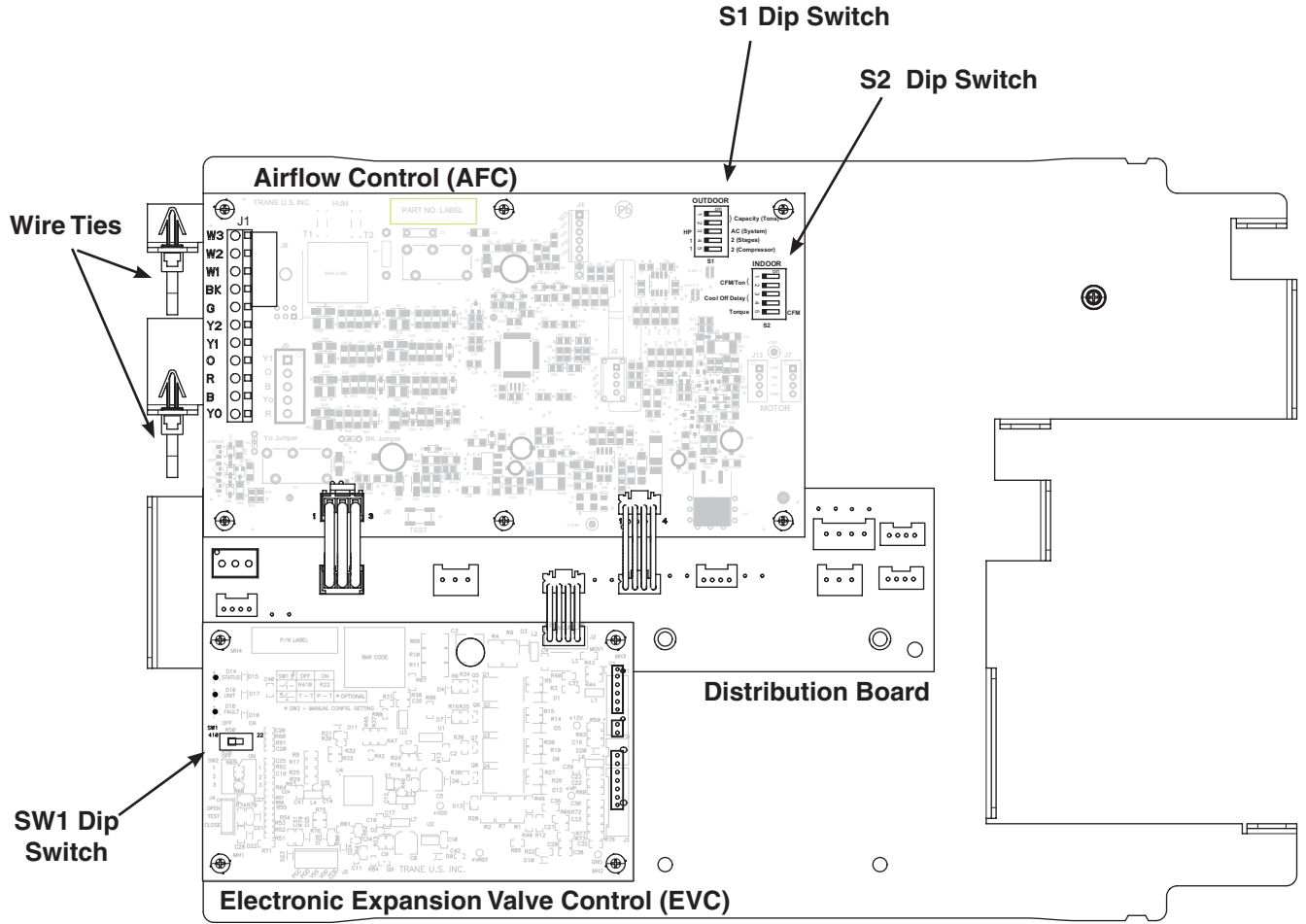
Clearing Faults

To clear the last four faults of all control boards:

1. Press and hold the Unit Test Button for 10-12 seconds.
2. Release the Unit Test button and "wait" 5 seconds.
3. Cycle 230VAC power to the unit. (the blower panel can be removed to achieve this)

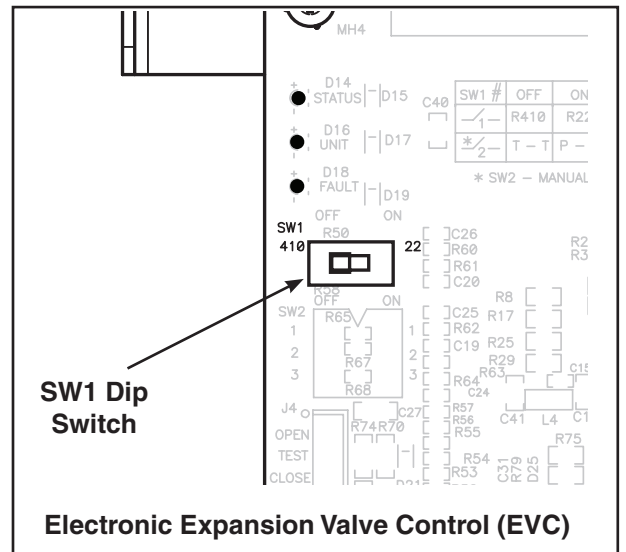


Control Layout



Refrigerant Switch SW1

- Set the system refrigerant to either R-410A or R-22 using the Refrigerant Switch located on the Expansion Valve Control board (EVC) in the Control Pocket.
- Factory default is R-410A.
- Note: The power must be shut off and then re-applied in order for the EVC to recognize the change.



Dip Switch S1

- Set the S1-1 and S1-2 dip switches for the OD multiplier (tonnage) per the chart.

NOTE: All dip switches are factory set to "OFF".

INDOOR MODEL	S1-1	S1-2	OD MULTIPLIER
*AM7A0A24H21SA	OFF	OFF	2
	OFF	ON	1.5
	ON	OFF	2.5
	ON	ON	3
*AM7A0B30H21SA	OFF	OFF	2
	OFF	ON	1.5
	ON	OFF	2.5
	ON	ON	3
*AM7A0C36H31SA	OFF	OFF	3
	OFF	ON	2
	ON	OFF	2.5
	ON	ON	3.5
*AM7A0C42H31SA	OFF	OFF	3.5
	OFF	ON	2.5
	ON	OFF	3
	ON	ON	4
*AM7A0C48H41SA	OFF	OFF	4
	OFF	ON	3
	ON	OFF	3.5
	ON	ON	4.5**
*AM7A0C60H51SA	OFF	OFF	4.5**
	OFF	ON	3.5
	ON	OFF	4
	ON	ON	5

* May be "A" or "T"

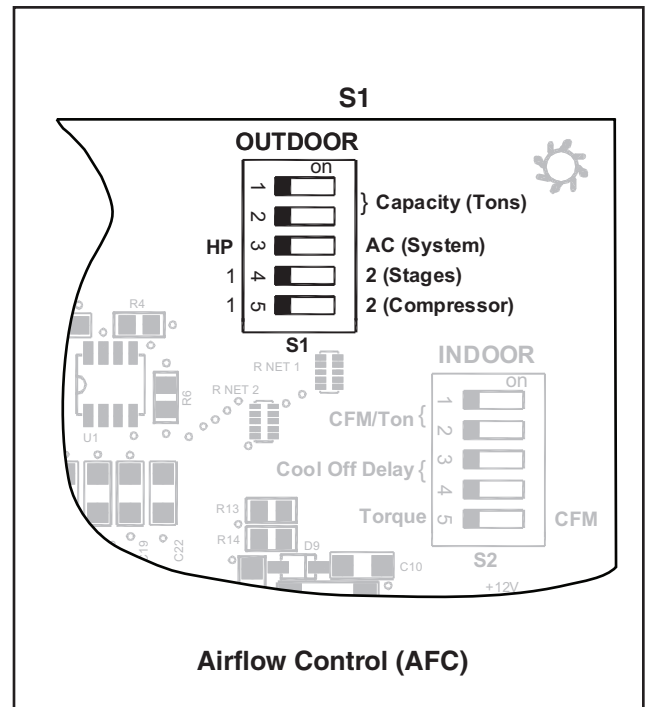
NOTE: The OD multiplier in conjunction with the CFM/TON can be used to adjust total airflow for your application.

Example: 4.5T x 370 CFM/TON = 1665 CFM

** Not an actual OD size

- Set the S1-3 dip switch for AC or HP.

OD TYPE	S1-3
HP	OFF
AC	ON



- Set the S1-4 dip switch for the number of stages on the outdoor unit.

OD STAGES	S1-4
1	OFF
2	ON

16 SEER = 2 Stages
19 SEER = 2 Stages
20 SEER = 2 Stages

- Note: This dip switch should be changed while the power is off or no demand is present. The power must be shut off and then re-applied in order for the AFC to recognize the change.

- Set the S1-5 dip switch for the number of compressors.

# COMPRESSORS	S1-5
1	OFF
2	ON

16 SEER = 1 Compressor
19 SEER = 2 Compressors
20 SEER = 2 Compressors

Dip Switch S2

- Set the S2-1 and S2-2 dip switches for the Cooling and Heating CFM/Ton.

INDOOR MODEL	S2-1	S2-2	COOLING CFM/TON	HEATING CFM/TON
*AM7A0A24H21SA	OFF	OFF	400	430
	OFF	ON	360	390
	ON	OFF	380	410
	ON	ON	420	450
*AM7A0B30H21SA	OFF	OFF	400	430
	OFF	ON	360	390
	ON	OFF	380	410
	ON	ON	420	450
*AM7A0C36H31SA	OFF	OFF	370	420
	OFF	ON	350	400
	ON	OFF	390	440
	ON	ON	410	450
*AM7A0C42H31SA	OFF	OFF	370	400
	OFF	ON	330	360
	ON	OFF	350	380
	ON	ON	390	420
*AM7A0C48H41SA	OFF	OFF	350	400
	OFF	ON	330	380
	ON	OFF	370	420
	ON	ON	390	440
*AM7A0C60H51SA	OFF	OFF	370	400
	OFF	ON	380	410
	ON	OFF	390	420
	ON	ON	400	430

* May be "A" or "T"

- Set the S2-3 and S2-4 dip switches for the Blower Off Delay.

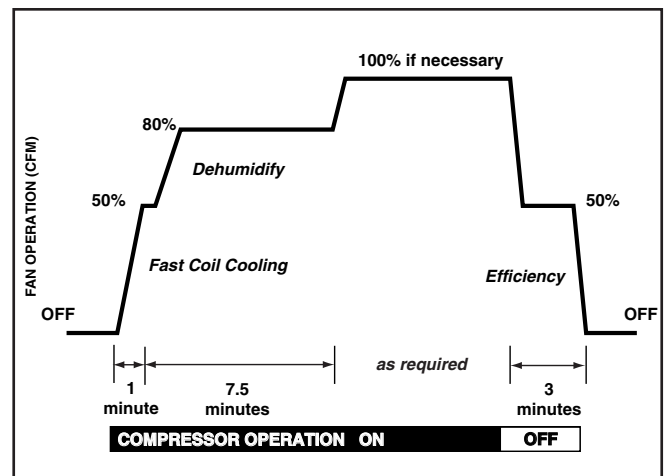
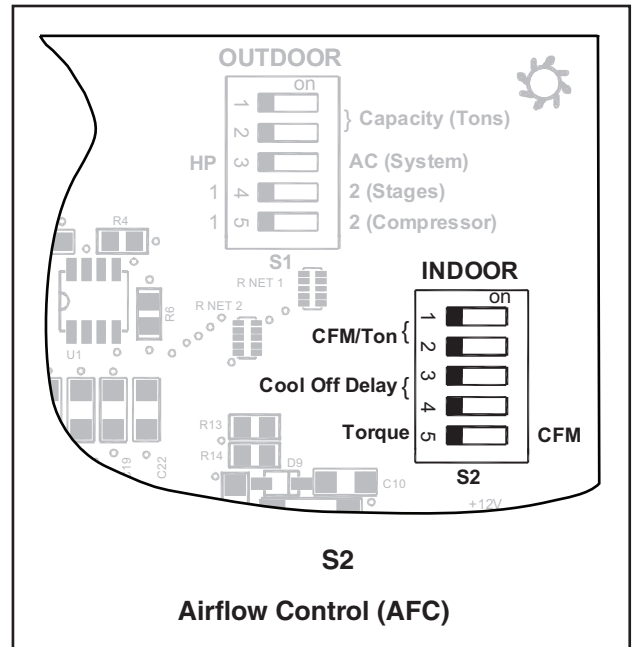
BLOWER OFF DELAY	S2-3	S2-4
1.5m @ 100%	OFF	OFF
NO DELAY	OFF	ON
3m @ 50%	ON	OFF
ENHANCED	ON	ON

Indoor Blower Timing

This ENHANCED MODE selection provides a ramping up and ramping down of the blower speed to provide improved comfort, quietness, and potential energy savings. The graph on the right shows the ramping process. Enhanced Mode works in cooling, HP, heating, Torque, and constant CFM modes.

- Set the S2-5 dip switch for the airflow mode.

AIRFLOW MODE	S2-5
*TORQUE	OFF
CONSTANT CFM	ON



* Torque mode is optional and is recommended for high static applications. High static conditions dramatically increase energy consumption with variable speed motors. Evaluate the blower performance table in relationship to the duct system to determine the benefit of each installation.

* For the 2 ton air handler, torque mode will reduce airflow when static is above approximately 0.3" water column.
 * For the 2-1/2, 3, and 3-1/2 ton air handlers, torque mode will reduce airflow when static is above approximately 0.35" water column.
 * For the 4 and 5 ton air handlers, torque mode will reduce airflow when static is above approximately 0.4" water column.

When selected, Torque Mode is used for cooling operation only. All heating modes default to constant CFM.

***AM7A0A24 AIRFLOW PERFORMANCE
CONSTANT CFM MODE / CONSTANT TORQUE MODE**

OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE						HEATING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE					
			0.1	0.3	0.5	0.7	0.9	0.1			0.3	0.5	0.7	0.9		
			CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton			CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton
1.5 tons	360	CFM	542 / 652	547 / 559	548 / 407	547 / NA	541 / NA	390	CFM	586	599	600	599	595		
	380	CFM	574 / 679	583 / 593	587 / 464	588 / 167	581 / NA	410	CFM	618	633	636	637	629		
	400	CFM	605 / 705	618 / 626	624 / 513	625 / 325	618 / NA	430	CFM	650	665	669	672	660		
	420	CFM	636 / 731	651 / 658	659 / 556	660 / 406	653 / NA	450	CFM	681	696	703	704	696		
	440	CFM	667 / 762	682 / 690	690 / 587	688 / 428	681 / NA	470	CFM	712	727	734	735	727		
	460	CFM	698 / 793	713 / 721	721 / 618	722 / 465	715 / NA	490	CFM	743	758	765	766	758		
2 tons †	360	CFM	723 / 809	743 / 746	754 / 666	756 / 563	748 / 428	390	CFM	780	800	809	811	802		
	380	CFM	761 / 843	782 / 784	793 / 710	796 / 617	788 / 500	410	CFM	818	838	848	851	842		
	400 †	CFM	799 / 877	820 / 821	832 / 751	835 / 666	827 / 561	430	CFM	856	876	887	889	881		
	420	CFM	836 / 911	858 / 858	870 / 792	873 / 712	866 / 615	450	CFM	894	913	925	927	920		
	440	CFM	867 / 943	888 / 888	900 / 816	903 / 653	895 / 551	470	CFM	926	946	958	960	952		
	460	CFM	898 / 979	919 / 920	931 / 847	934 / 694	926 / 642	490	CFM	957	977	989	991	983		
2.5 tons	360	CFM	892 / 979	914 / 930	927 / 869	930 / 796	923 / 709	390	CFM	964	986	997	1000	992		
	380	CFM	939 / 1024	962 / 976	974 / 918	978 / 849	971 / 766	410	CFM	1013	1034	1045	1049	1040		
	400	CFM	986 / 1070	1009 / 1023	1022 / 967	1026 / 901	1019 / 821	430	CFM	1063	1083	1095	1097	1089		
	420	CFM	1035 / 1118	1058 / 1072	1071 / 1018	1074 / 953	1066 / 877	450	CFM	1114	1135	1145	1145	1135		
	440	CFM	1074 / 1159	1097 / 1111	1110 / 1048	1113 / 929	1105 / 847	470	CFM	1164	1185	1195	1195	1185		
	460	CFM	1113 / 1200	1136 / 1150	1149 / 1164	1152 / 1041	1144 / 959	490	CFM	1214	1235	1245	1245	1235		
3 tons	360	CFM	1065 / 1148	1088 / 1102	1101 / 1048	1103 / 985	1095 / 910	390	CFM	1160	1181	1190	1189	1157		
	380	CFM	1126 / 1209	1149 / 1164	1160 / 1111	1161 / 1050	1151 / 978	410	CFM	1225	1244	1249	1230	1146		
	400	CFM	1190 / 1271	1211 / 1227	1220 / 1175	1218 / 1115	1164 / 1046	430	CFM	1291	1305	1298	1217	1135		
	420	CFM	1255 / 1334	1273 / 1289	1278 / 1239	1237 / 1180	1151 / 1113	450	CFM	1355	1361	1285	1206	1124		
	440	CFM	1314 / 1393	1332 / 1348	1343 / 1304	1343 / 1242	1334 / 1193	470	CFM	1416	1430	1435	1435	1416		
	460	CFM	1353 / 1432	1371 / 1387	1382 / 1343	1382 / 1281	1373 / 1232	490	CFM	1477	1491	1495	1495	1477		

NOTES:

- * Models start with "A" or "T"
- † 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

Minimum Heating Airflow Settings

MODEL NO.	MINIMUM HEATER AIRFLOW CFM - HEATER MATRIX			
	BAYEVAC08BK1AA	BAYEVAC05BK1AA	BAYEVAC10BK1AA	BAYEVAC15BK1AA
*AM7A0A24H2ISAA	638/900	638/900	679/900	679/900
	638/900	638/900	600/713	600/713
	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.

*AM7A0B30 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE													
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE				HEATING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7			0.9	0.1	0.3	0.5	0.7
1.5 tons	360 CFM/ton	591 / 685 Watts	560 / 538	533 / 299	509 / NA	482 / NA	390 CFM/ton	630	609	588	566	540	
	380 CFM/ton	618 / 711	593 / 572	569 / 359	547 / NA	524 / NA	410 CFM/ton	35	65	96	128	161	
	400 CFM/ton	33 / 45	62 / 60	93 / 68	125 / NA	158 / NA	430 CFM/ton	657	639	621	601	578	
	420 CFM/ton	645 / 738	624 / 605	604 / 410	584 / NA	562 / NA	450 CFM/ton	38	70	102	136	169	
		37 / 49	67 / 65	99 / 73	132 / NA	166 / NA	400 CFM/ton	643	625	607	589	561	533
		659 / 751	639 / 621	620 / 434	602 / NA	581 / NA	450 CFM/ton	42	75	109	143	177	
2 tons †	360 CFM/ton	750 / 840	741 / 726	731 / 575	719 / 344	704 / NA	800	797	791	781	766		
	380 CFM/ton	51 / 66	87 / 85	125 / 96	163 / 99	200 / NA	60	99	139	180	219		
	400 † CFM/ton	784 / 874	779 / 764	771 / 622	762 / 419	748 / NA	834	834	830	822	810		
	420 CFM/ton	57 / 72	95 / 92	134 / 104	174 / 107	213 / NA	66	107	150	192	233		
		818 / 908	816 / 802	811 / 667	803 / 484	792 / NA	868	871	869	864	853		
		62 / 79	103 / 100	144 / 113	186 / 117	227 / NA	73	116	161	205	248		
2.5 tons	360 CFM/ton	835 / 924	834 / 820	831 / 689	824 / 513	813 / 180	902	908	908	905	895		
	380 CFM/ton	66 / 83	107 / 104	150 / 118	192 / 122	234 / 132	80	126	172	219	263		
	400 CFM/ton	904 / 1017	908 / 921	909 / 804	907 / 658	898 / 454	967	977	982	982	974		
	420 CFM/ton	80 / 105	125 / 129	172 / 144	219 / 150	264 / 148	95	145	196	247	295		
		947 / 1061	955 / 968	959 / 856	958 / 718	951 / 538	1012	1025	1033	1034	1027		
		89 / 117	138 / 142	188 / 158	237 / 165	285 / 163	106	160	214	268	318		
3 tons	360 CFM/ton	991 / 1106	1002 / 1016	1009 / 908	1010 / 779	1003 / 614	1057	1074	1084	1087	1078		
	380 CFM/ton	100 / 131	152 / 156	205 / 174	257 / 182	307 / 180	119	176	234	290	342		
	400 CFM/ton	1013 / 1129	1026 / 1040	1034 / 934	1036 / 808	1029 / 650	1104	1124	1136	1139	1128		
	420 CFM/ton	106 / 138	159 / 164	214 / 182	268 / 190	318 / 189	133	194	255	314	366		
		1063 / 1182	1080 / 1095	1091 / 993	1094 / 873	1085 / 727	1147	1170	1184	1185	1170		
		120 / 156	177 / 182	236 / 201	292 / 211	344 / 210	147	211	276	336	389		
3 tons	360 CFM/ton	1120 / 1241	1140 / 1157	1153 / 1059	1156 / 945	1444 / 809	1208	1233	1247	1245	1223		
	380 CFM/ton	137 / 178	199 / 205	262 / 225	321 / 235	374 / 236	168	238	306	367	418		
	400 CFM/ton	1179 / 1304	1202 / 1221	1216 / 1127	1216 / 1018	1198 / 890	1271	1298	1309	1300	1271		
	420 CFM/ton	157 / 203	224 / 231	290 / 252	351 / 263	403 / 265	193	267	337	398	446		
		1210 / 1337	1233 / 1255	1247 / 1162	1245 / 1055	1224 / 931	1338	1363	1368	1350	1314		
		168 / 217	237 / 246	305 / 267	306 / 279	417 / 281	221	299	369	427	472		

NOTES:
 1. * Models start with "A" or "T"
 2. † Factory Setting
 3. 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 Heating Airflow Settings

MINIMUM HEATER AIRFLOW CFM - HEATER MATRIX					
MODEL NO.	BAYEAC08BK1AA	BAYEAC08BK1AA	BAYEAC10BK1AA	BAYEVC15BK1AA	BAYEVC20BK1AA
*AM7A0B30H2T5AA	723/808	723/1020	765/1020	765/1063	850/1105
	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.

*AM7A0C36 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE													
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE				HEATING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7			0.9	0.1	0.3	0.5	0.7
2 tons	350 CFM/ton	CFM Watts	724 / 858 44 / 63	704 / 706 77 / 77	694 / 530 111 / 85	695 / 297 148 / 90	698 / 19 185 / 163	400 CFM Watts	813 57	797 94	794 133	799 174	806 215
	370 CFM/ton	CFM Watts	759 / 892 49 / 69	744 / 747 84 / 84	738 / 585 120 / 93	740 / 387 158 / 98	742 / 84 197 / 135	420 CFM Watts	849 63	837 102	835 142	841 185	849 228
	390 CFM/ton	CFM Watts	795 / 924 54 / 75	784 / 787 91 / 91	780 / 635 129 / 102	783 / 460 169 / 107	786 / 213 209 / 120	440 CFM Watts	884 69	876 110	876 153	883 197	891 242
	410 CFM/ton	CFM Watts	830 / 957 60 / 82	823 / 826 99 / 99	822 / 683 139 / 111	824 / 524 180 / 117	827 / 329 222 / 123	450 CFM Watts	902 72	895 114	897 158	902 203	912 249
	350 CFM/ton	CFM Watts	879 / 1026 68 / 97	876 / 905 110 / 116	877 / 776 153 / 130	881 / 639 197 / 138	884 / 488 240 / 143	400 CFM Watts	992 91	991 138	998 188	1005 237	1014 330
2.5 tons	370 CFM/ton	CFM Watts	923 / 1067 77 / 107	924 / 952 121 / 127	927 / 830 167 / 142	932 / 702 213 / 151	936 / 565 258 / 157	420 CFM Watts	1036 101	1040 152	1048 204	1057 256	1064 307
	390 CFM/ton	CFM Watts	968 / 1110 86 / 118	971 / 999 133 / 139	977 / 883 181 / 155	983 / 762 230 / 166	987 / 634 277 / 172	440 CFM Watts	1081 113	1089 167	1099 221	1110 277	1116 330
	410 CFM/ton	CFM Watts	1012 / 1153 96 / 130	1020 / 1047 146 / 153	1028 / 935 197 / 170	1034 / 820 248 / 181	1039 / 700 298 / 187	450 CFM Watts	1105 119	1113 174	1125 231	1136 287	1141 341
	350 CFM/ton	CFM Watts	1036 / 1175 102 / 137	1044 / 1070 153 / 160	1053 / 961 206 / 177	1060 / 848 257 / 189	1064 / 731 308 / 196	400 CFM Watts	1175 140	1189 200	1203 261	1214 321	1215 377
	370 † CFM/ton	CFM Watts	1090 / 1229 116 / 154	1102 / 1129 171 / 178	1114 / 1024 227 / 196	1122 / 916 282 / 209	1123 / 805 334 / 217	420 CFM Watts	1234 159	1251 223	1267 288	1275 351	1272 406
3 tons †	390 CFM/ton	CFM Watts	1145 / 1285 132 / 173	1161 / 1188 191 / 198	1176 / 1087 251 / 218	1184 / 984 309 / 231	1184 / 877 363 / 240	440 CFM Watts	1295 180	1315 250	1331 318	1335 381	1325 435
	410 CFM/ton	CFM Watts	1204 / 1343 150 / 195	1223 / 1249 213 / 221	1238 / 1152 277 / 241	1246 / 1051 337 / 256	1242 / 948 391 / 264	450 CFM Watts	1327 192	1348 264	1362 264	1364 396	1350 449
	350 CFM/ton	CFM Watts	1199 / 1338 149 / 193	1218 / 1244 211 / 219	1233 / 1146 274 / 239	1241 / 1046 335 / 254	1237 / 942 389 / 262	400 CFM Watts	1380 214	1403 289	1414 360	1409 422	1389 472
	370 CFM/ton	CFM Watts	1269 / 1408 172 / 222	1291 / 1317 240 / 249	1307 / 1223 307 / 270	1311 / 1126 370 / 285	1300 / 1025 423 / 294	420 CFM Watts	1459 248	1478 327	1481 397	1467 456	1395 476
	390 CFM/ton	CFM Watts	1342 / 1481 200 / 255	1367 / 1393 273 / 282	1380 / 1301 343 / 304	1378 / 1206 405 / 320	1358 / 1108 456 / 329	440 CFM Watts	1538 287	1550 366	1542 433	1504 478	1388 472
3.5 tons	410 CFM/ton	CFM Watts	1419 / 1555 232 / 291	1442 / 1468 309 / 319	1449 / 1379 380 / 341	1438 / 1286 440 / 357	1394 / 1189 478 / 367	450 CFM Watts	1575 307	1583 385	1570 450	1501 477	1385 470

NOTES:

- * Models start with "A" or "T"
- † 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 Heating Airflow Settings

MINIMUM HEATER AIRFLOW CFM - HEATER MATRIX					
MODEL NO.	BAYEAC05BK1AA	BAYEAC08BK1AA	BAYEAC10BK1AA	BAYEAC15BK1AA	BAYEAC20BK1AA
*AM7A0C36H31SAA	BAYEAC08LG1AA 876/979	BAYEAC10LG1AA 927/1236	BAYEAC15LG3AA 927/1236	BAYEAC15BK1AA 927/1288	BAYEAC20BK1AA 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.

*AM7A0C42 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE				HEATING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE					
			0.1	0.3	0.5	0.7			0.9	0.1	0.3	0.5	0.7	
2.5 tons	330 CFM/ton	CFM Watts	853 / 988 68 / 96	832 / 861 108 / 114	820 / 712 149 / 125	815 / 523 191 / 128	813 / 208 232 / 143	360 CFM/ton	CFM Watts	912 82	897 125	893 170	895 217	901 264
	350 CFM/ton	CFM Watts	896 / 1030 76 / 107	880 / 909 119 / 126	870 / 768 162 / 137	867 / 597 162 / 141	866 / 353 250 / 144	380 CFM/ton	CFM Watts	956 92	945 137	943 185	946 234	951 283
	370 CFM/ton	CFM Watts	939 / 1072 85 / 118	926 / 956 130 / 139	920 / 823 176 / 151	918 / 665 222 / 155	918 / 458 268 / 155	400 CFM/ton	CFM Watts	1000 102	992 151	992 201	997 253	1002 304
	390 CFM/ton	CFM Watts	983 / 1115 95 / 131	973 / 1003 143 / 152	969 / 877 191 / 165	968 / 729 240 / 170	969 / 546 288 / 169	420 CFM/ton	CFM Watts	1044 114	1040 166	1042 219	1047 273	1052 325
	330 CFM/ton	CFM Watts	996 / 1128 99 / 135	987 / 1017 147 / 156	984 / 892 196 / 170	984 / 748 246 / 175	983 / 570 294 / 174	360 CFM/ton	CFM Watts	1071 122	1069 175	1072 230	1078 285	1082 339
	350 CFM/ton	CFM Watts	1049 / 1180 112 / 152	1043 / 1074 164 / 174	1044 / 956 217 / 189	1045 / 821 269 / 196	1045 / 662 320 / 194	380 CFM/ton	CFM Watts	1126 138	1127 195	1132 254	1139 312	1142 368
3 tons	370 CFM/ton	CFM Watts	1101 / 1233 127 / 171	1100 / 1132 183 / 195	1103 / 1019 239 / 210	1106 / 893 294 / 218	1107 / 747 348 / 217	400 CFM/ton	CFM Watts	1181 157	1186 218	1193 280	1200 341	1201 399
	390 CFM/ton	CFM Watts	1156 / 1288 144 / 192	1159 / 1190 203 / 217	1164 / 1083 264 / 234	1167 / 964 322 / 242	1168 / 828 379 / 242	420 CFM/ton	CFM Watts	1239 177	1247 243	1256 309	1261 373	1259 432
	330 CFM/ton	CFM Watts	1142 / 1274 140 / 187	1143 / 1175 198 / 211	1148 / 1067 257 / 228	1152 / 946 315 / 236	1152 / 808 370 / 236	360 CFM/ton	CFM Watts	1239 177	1247 243	1256 309	1261 373	1259 432
	350 CFM/ton	CFM Watts	1208 / 1340 162 / 214	1212 / 1245 224 / 239	1220 / 1142 288 / 257	1224 / 1028 350 / 267	1222 / 901 407 / 268	380 CFM/ton	CFM Watts	1308 205	1319 276	1329 346	1331 412	1323 470
	370 † CFM/ton	CFM Watts	1274 / 1408 187 / 245	1283 / 1317 254 / 272	1293 / 1218 323 / 291	1295 / 1110 387 / 301	1289 / 991 445 / 303	400 CFM/ton	CFM Watts	1381 237	1394 313	1401 386	1398 452	1332 475
	390 CFM/ton	CFM Watts	1344 / 1479 215 / 280	1357 / 1390 289 / 308	1366 / 1295 361 / 328	1364 / 1192 427 / 340	1345 / 1080 479 / 343	420 CFM/ton	CFM Watts	1456 275	1468 355	1471 429	1443 481	1323 470
4 tons	330 CFM/ton	CFM Watts	1299 / 1457 196 / 268	1309 / 1368 266 / 296	1318 / 1272 336 / 316	1321 / 1167 401 / 327	1313 / 1053 459 / 330	360 CFM/ton	CFM Watts	1423 258	1436 337	1441 410	1434 475	1326 472
	350 CFM/ton	CFM Watts	1380 / 1538 232 / 312	1394 / 1542 307 / 340	1401 / 1360 381 / 361	1398 / 1260 447 / 374	1339 / 1153 477 / 378	380 CFM/ton	CFM Watts	1511 304	1520 386	1517 459	1436 477	1317 466
	370 CFM/ton	CFM Watts	1466 / 1618 273 / 359	1479 / 1534 354 / 389	1481 / 1445 428 / 411	1451 / 1350 482 / 425	1327 / 1248 470 / 429	400 CFM/ton	CFM Watts	1598 356	1599 437	1536 472	1426 470	1308 461
	390 CFM/ton	CFM Watts	1553 / 1693 320 / 409	1561 / 1611 403 / 439	1544 / 1525 470 / 462	1438 / 1432 475 / 476	1315 / 1333 465 / 481	420 CFM/ton	CFM Watts	1679 409	1620 451	1534 471	1417 464	1301 456

- NOTES:
- * Models start with "A" or "T"
 - † 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 Heating Airflow Settings

MINIMUM HEATER AIRFLOW CFM - HEATER MATRIX			
BAYEVAC08BK1AA	BAYEVAC08BK1AA	BAYEVAC10LG3AA	BAYEVCB15BK1AA
BAYEVAC06LG1AA	BAYEVAC06LG1AA	BAYEVAC10LG3AA	BAYEVCB15LG3AA
*AM7A0C42H3SAA	978/1380	1035/1380	1150/1495
WITHOUT HEAT PUMP / WITH HP SEE AIR HANDLER NAMEPLATE			
			BAYEVC20BK1AA 1380/1610

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

*AM7A0C48 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE			HEATING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE						
			0.1	0.3	0.5			0.7	0.9	0.1	0.3	0.5	0.7	0.9
3 tons	330 CFM/ton	CFM Watts	1101 / 1127 92 / 117	1017 / 1020 143 / 143	1015 / 907 190 / 163	1006 / 786 232 / 173	994 / 654 270 / 174	380 CFM Watts	1150 128	1155 184	1154 237	1150 286	1141 330	
	350 CFM/ton	CFM Watts	1067 / 1180 106 / 132	1073 / 1078 158 / 160	1072 / 972 208 / 180	1065 / 859 252 / 192	1053 / 738 292 / 194	400 CFM Watts	1204 145	1210 203	1210 259	1207 310	1199 356	
	370 CFM/ton	CFM Watts	1122 / 1233 120 / 149	1129 / 1136 175 / 177	1128 / 1035 227 / 199	1122 / 929 274 / 212	1112 / 816 315 / 215	420 CFM Watts	1259 162	1266 224	1267 282	1264 335	1258 384	
	390 CFM/ton	CFM Watts	1177 / 1287 136 / 167	1185 / 1194 194 / 196	1185 / 1097 248 / 219	1180 / 996 297 / 233	1170 / 890 341 / 238	440 CFM Watts	1314 182	1322 246	1324 307	1322 363	1316 413	
	330 CFM/ton	CFM Watts	1164 / 1274 132 / 162	1171 / 1179 189 / 191	1171 / 1082 242 / 214	1165 / 980 291 / 227	1156 / 872 334 / 232	380 CFM Watts	1323 185	1331 250	1333 250	1331 368	1325 418	
	350 CFM/ton	CFM Watts	1228 / 1336 152 / 185	1235 / 1246 212 / 215	1236 / 1153 268 / 238	1232 / 1056 319 / 253	1224 / 955 365 / 259	400 CFM Watts	1388 211	1398 279	1400 343	1399 403	1395 457	
3.5 tons	370 CFM/ton	CFM Watts	1292 / 1400 174 / 210	1300 / 1313 237 / 241	1302 / 1224 296 / 265	1299 / 1132 350 / 281	1292 / 1036 399 / 288	420 CFM Watts	1455 240	1465 312	1468 379	1469 441	1463 497	
	390 CFM/ton	CFM Watts	1356 / 1465 198 / 238	1366 / 1381 265 / 270	1369 / 1295 327 / 295	1367 / 1207 384 / 312	1361 / 1115 435 / 320	440 CFM Watts	1523 272	1534 347	1538 418	1538 483	1534 542	
	330 CFM/ton	CFM Watts	1315 / 1443 212 / 228	1324 / 1358 247 / 260	1326 / 1271 307 / 284	1323 / 1181 362 / 301	1316 / 1088 412 / 308	380 CFM Watts	1502 262	1514 337	1518 406	1518 471	1514 529	
	350 † CFM/ton	CFM Watts	1389 / 1517 212 / 262	1399 / 1436 280 / 295	1403 / 1352 343 / 321	1401 / 1266 402 / 338	1395 / 1177 455 / 346	400 CFM Watts	1582 302	1594 382	1598 454	1598 522	1591 581	
	370 CFM/ton	CFM Watts	1465 / 1594 245 / 301	1476 / 1516 317 / 335	1481 / 1435 384 / 361	1480 / 1352 446 / 379	1475 / 1267 502 / 388	420 CFM Watts	1664 348	1675 421	1680 508	1678 577	1669 638	
	390 CFM/ton	CFM Watts	1543 / 1673 283 / 346	1555 / 1597 359 / 380	1560 / 1519 430 / 406	1560 / 1439 495 / 425	1554 / 1356 553 / 434	440 CFM Watts	1748 400	1758 486	1760 565	1755 634	1708 668	
4 tons †	330 CFM/ton	CFM Watts	1470 / 1599 247 / 304	1481 / 1521 319 / 337	1486 / 1440 387 / 364	1485 / 1357 449 / 382	1480 / 1272 505 / 391	380 CFM Watts	1695 367	1706 451	1710 528	1707 598	1697 659	
	350 CFM/ton	CFM Watts	1558 / 1688 290 / 354	1570 / 1613 367 / 389	1575 / 1535 439 / 415	1575 / 1455 505 / 434	1568 / 1373 563 / 444	400 CFM Watts	1790 428	1799 515	1799 594	1792 664	1700 661	
	370 CFM/ton	CFM Watts	1649 / 1780 340 / 412	1661 / 1707 422 / 447	1666 / 1632 497 / 474	1664 / 1554 565 / 493	1655 / 1475 625 / 503	420 CFM Watts	1885 496	1889 584	1884 662	1783 656	1683 648	
	390 CFM/ton	CFM Watts	1742 / 1873 397 / 477	1754 / 1801 483 / 512	1756 / 1728 561 / 539	1751 / 1653 630 / 558	1708 / 1576 666 / 567	440 CFM Watts	1976 568	1973 655	1871 652	1765 643	1667 636	
	NOTES:													
	1. * Models start with "A" or "T"													
2. † Factory Setting														
3. Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.														
4. Torque mode will reduce airflow when static is above approximately 0.4" water column.														
5. All heating modes default to Constant CFM														
6. Cooling airflow values are with wet coil, no filter														
7. ** Not an actual OD size.														

Minimum Heating Airflow Settings

MINIMUM HEATER AIRFLOW CFM - HEATER MATRIX			
MODEL NO.	BAYEAC08BK1AA	BAYEAC10BK1AA	BAYEAC15BK1AA
*AM7A0C48H41SAA	BAYEAC08LG1AA 1063/1188	BAYEAC10LG1AA 1125/1188	BAYEAC15LG3AA 1250/1625
	WITHOUT HEAT PUMP / WITH HP SEE AIR HANDLER NAMEPLATE	BAYEVCB15BK1AA 1500/1750	BAYEVC20BK1AA 1625/1813

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

OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE					HEATING AIRFLOW SETTING	Airflow Power	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
			3.5 tons	370 CFM/ton 380 CFM/ton 390 CFM/ton 400 CFM/ton	CFM Watts CFM Watts	1316 / 1404 194 / 201 1349 / 1435 207 / 213	1328 / 1330 258 / 234 1360 / 1362 272 / 247			1328 / 1244 314 / 260 1359 / 1278 329 / 273	1320 / 1146 364 / 276 1352 / 1183 380 / 290	1308 / 1033 406 / 280 1338 / 1074 422 / 295	400 CFM/ton 410 CFM/ton 420 CFM/ton 430 CFM/ton	CFM Watts CFM Watts
4 tons	370 CFM/ton 380 CFM/ton 390 CFM/ton 400 CFM/ton	CFM Watts CFM Watts	1485 / 1583 269 / 278 1521 / 1618 287 / 295	1493 / 1516 337 / 314 1529 / 1552 356 / 331	1493 / 1441 398 / 342 1528 / 1479 418 / 360	1486 / 1357 452 / 362 1522 / 1396 474 / 380	1475 / 1263 498 / 370 1511 / 1305 520 / 389	400 CFM/ton 410 CFM/ton 420 CFM/ton 430 CFM/ton	CFM Watts CFM Watts	1586 285 1622 303	1600 360 1636 379	1604 428 1640 449	1601 490 1638 512	1592 543 1629 566
4.5 tons**†	370 † CFM/ton 380 CFM/ton 390 CFM/ton 400 CFM/ton	CFM Watts CFM Watts	1652 / 1748 360 / 365 1694 / 1789 386 / 390	1659 / 1685 433 / 403 1701 / 1727 460 / 427	1659 / 1616 500 / 433 1701 / 1659 528 / 458	1655 / 1540 559 / 454 1697 / 1548 589 / 480	1646 / 1456 610 / 465 1688 / 1503 641 / 491	400 CFM/ton 410 CFM/ton 420 CFM/ton 430 CFM/ton	CFM Watts CFM Watts	1769 385 1811 411	1782 467 1826 495	1789 543 1831 572	1788 611 1832 643	1783 671 1827 704
5 tons	370 CFM/ton 380 CFM/ton 390 CFM/ton 400 CFM/ton	CFM Watts CFM Watts	1826 / 1921 475 / 476 1875 / 1971 512 / 512	1833 / 1862 555 / 515 1882 / 1912 593 / 550	1835 / 1797 627 / 545 1884 / 1848 667 / 581	1832 / 1726 692 / 568 1882 / 1778 733 / 603	1826 / 1650 748 / 580 1876 / 1703 791 / 616	400 CFM/ton 410 CFM/ton 420 CFM/ton 430 CFM/ton	CFM Watts CFM Watts	1963 515 2014 554	1978 606 2029 647	1985 689 2037 733	1988 766 2040 811	1985 833 2038 880
	370 CFM/ton 380 CFM/ton 390 CFM/ton 400 CFM/ton	CFM Watts CFM Watts	1924 / 2021 551 / 550 1975 / 2073 593 / 590	1935 / 1900 710 / 619 1986 / 1953 755 / 660	1935 / 1832 836 / 654 1979 / 1814 884 / 695	1927 / 1758 836 / 654 1985 / 1886 824 / 682	420 CFM/ton 430 CFM/ton 440 CFM/ton 450 CFM/ton	CFM Watts CFM Watts	2066 595 2120 640	2082 691 2136 738	2090 779 2143 828	2093 859 2147 909	2090 928 2143 980	

NOTES:

- * Models start with "A" or "T"
- † 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 0.4" water column.
- All heating modes default to Constant CFM
- Cooling airflow values are with wet coil, no filter
- ** Not an actual OD size.

Minimum Heating Airflow Settings

MINIMUM HEATER AIRFLOW CFM - HEATER MATRIX					
MODEL NO.	BAYEAC08BK1AA	BAYEAC08BK1AA	BAYEAC10LG3AA	BAYEAC15BK1AA	BAYEAC20BK1AA
*AM7A0C6DH1SAA	1063/1188	1125/1500	1000/1188	1125/1563	1500/1750
			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.

HEATER INFORMATION

Heater Attribute Data											
*AM7A0A24H21SA											
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

Note: * May be "A" or "T"
 Note: ** Motor Amps

Heater Attribute Data											
*AM7A0B30H21SA											
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 ① BAYEVBC15BK1 - Circuit 2	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25

Note: * May be "A" or "T"
 Note: ** Motor Amps
 ① MCA and MOP for circuit 1 contains the motor amps

Heater Attribute Data											
*AM7A0C36H31SA											
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 ① BAYEVBC15BK1 - Circuit 2	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEVBC20BK1 - Circuit 1 ① BAYEVBC20BK1 - Circuit 2	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45

Note: * May be "A" or "T"
 Note: ** Motor Amps
 ① MCA and MOP for circuit 1 contains the motor amps

Heater Attribute Data											
*AM7A0C42H31SA											
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 ① BAYEVBC15BK1 - Circuit 2	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEVBC20BK1 - Circuit 1 ① BAYEVBC20BK1 - Circuit 2	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45

Note: * May be "A" or "T"
Note: ** Motor Amps
① MCA and MOP for circuit 1 contains the motor amps

Heater Attribute Data											
*AM7A0C48H41SA											
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	-	-	4.2**	5	15	-	-	4.2**	5	15
BAYEVAC05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYEVAC08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	40	40
BAYEVAC10++1	1	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	34	35	7.20	24600	20.0	30	30
BAYEVBC15LG3	1-3 PH	14.40	42000	34.6	48	50	10.80	36900	30.0	42	45
BAYEVBC15BK1 - Circuit 1 ① BAYEVBC15BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEVBC20BK1 - Circuit 1 ① BAYEVBC20BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYEVCC25BK1 - Circuit 1 ① BAYEVCC25BK1 - Circuit 2 BAYEVCC25BK1 - Circuit 3	3	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25

Note: * May be "A" or "T"
Note: ** Motor Amps
① MCA and MOP for circuit 1 contains the motor amps

Heater Attribute Data

***AM7A0C60H51SA**

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	-	-	5.5**	7	15	-	-	5.5**	7	15
BAYEVAC05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYEVAC08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	40	40
BAYEVAC10++1	1	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	34	35	7.20	24600	20.0	30	30
BAYEVBC15LG3	1-3 PH	14.40	42000	34.6	48	50	10.80	36900	30.0	42	45
BAYEVBC15BK1 - Circuit 1 ① BAYEVBC15BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEVBC20BK1 - Circuit 1 ① BAYEVBC20BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYEVCC25BK1 - Circuit 1 ① BAYEVCC25BK1 - Circuit 2 BAYEVCC25BK1 - Circuit 3	3	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25

Note: * May be "A" or "T"

Note: ** Motor Amps

① MCA and MOP for circuit 1 contains the motor amps

SUBCOOLING ADJUSTMENT

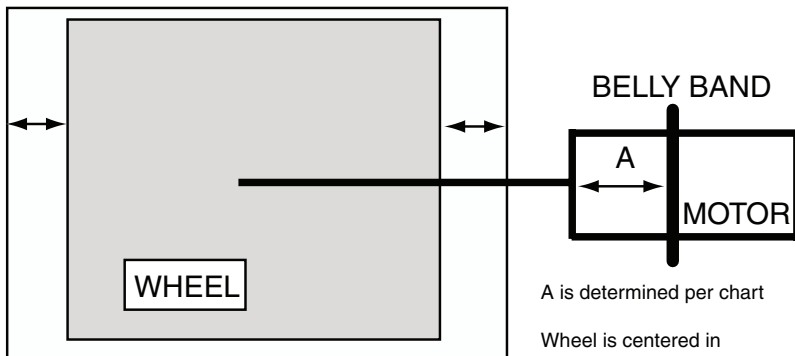
Indoor Unit Model No.	Outdoor Unit Model No.	Subcooling
*AM7A0B30H21SA	4A6H6024E, 4TWX6024E	9°
*AM7A0C36H31SA	4A6H6036E, 4TWX6036E	10°
*AM7A0C48H41SA	4A6H6048E, 4TWX6048E	8°
*AM7A0B30H21SA	4A7A6024E, 4TTX6024E	8°
*AM7A0C36H31SA	4A7A6036E, 4TTX6036E	8°
*AM7A0C48H41SA	4A7A6048E, 4TTX6048E	8°
*AM7A0B30H21SA	4TWZ0024A, 4A6Z0024A	9°
*AM7A0C36H31SA	4TWZ0036A, 4A6Z0036A	10°
*AM7A0C48H41SA	4TWZ0048A, 4A6Z0048A	12°
*AM7A0B30H21SA	4TTZ0024A, 4A7Z0024A	9°
*AM7A0C36H31SA	4TTZ0036A, 4A7Z0036A	11°
*AM7A0C48H41SA	4TTZ0048A, 4A7Z0048A	13°

* May be "A" or "T"

All other matches must be charged per the nameplate charging instructions.

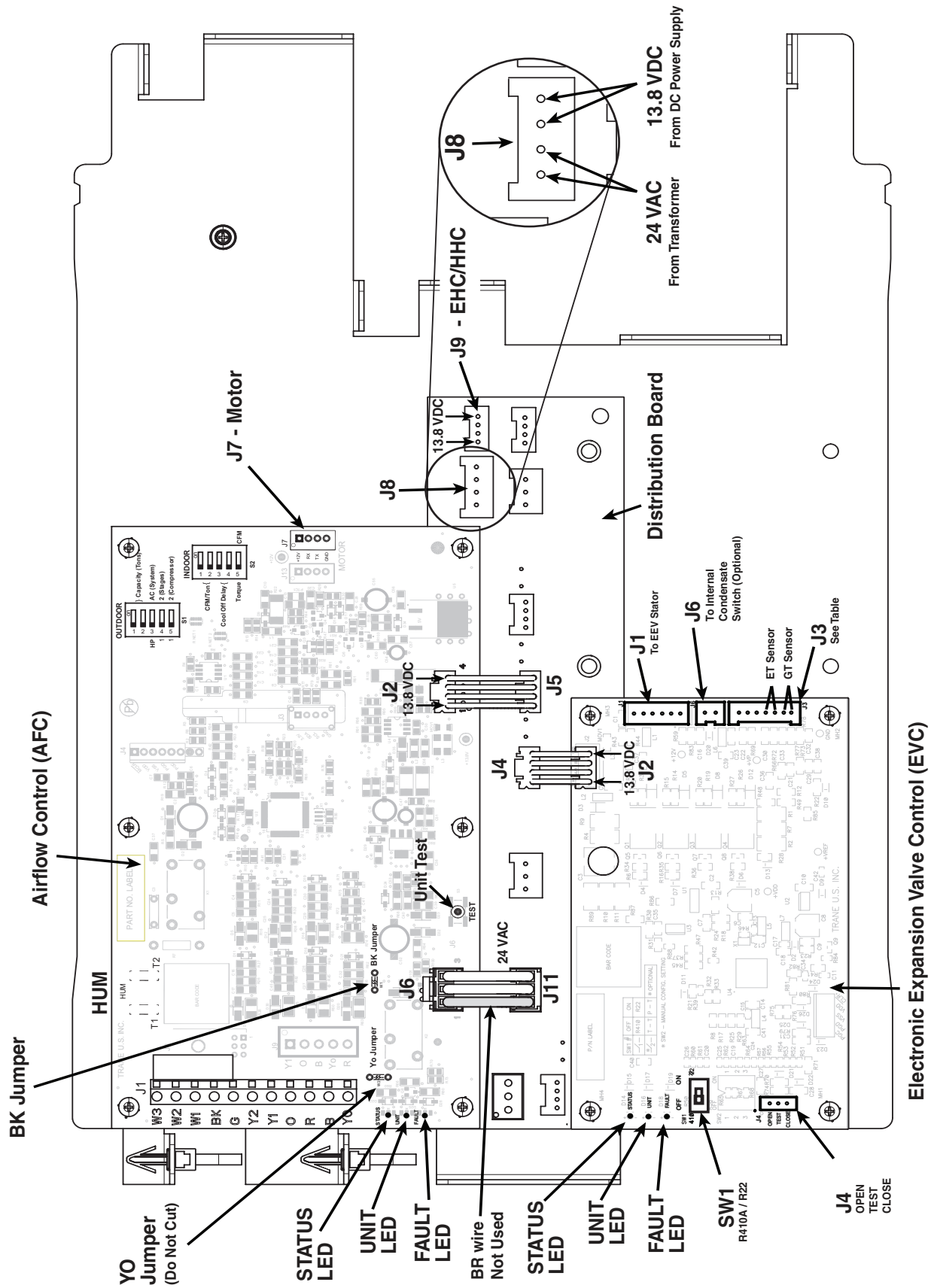
DISTANCE FROM BELLY BAND TO SHAFT FACE OF MOTOR FOR MINIMUM VIBRATION

BLOWER HOUSING



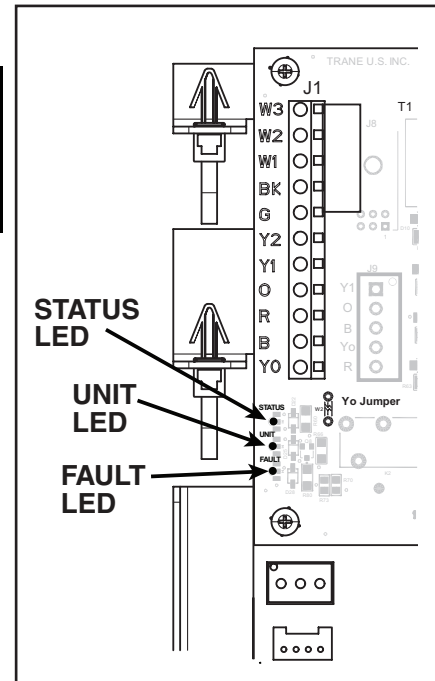
MODEL	DIM "A"
*AM7A0A24H21SA	2-3/8
*AM7A0B30H21SA	2-3/8
*AM7A0C36H31SA	2-3/8
*AM7A0C42H31SA	2-3/8
*AM7A0C48H41SA	2-3/8
*AM7A0C60H51SA	2-3/8
* May be "A" or "T"	

Air Handler Control Panel



AFC STATUS CODES (GREEN LED)

AFC STATUS LED	Description
ON SOLID	Power up and during last 4 fault history sequence
1 Flash (per second)	Stand-by or idle
Multiple Flash	CFM demand - 1 flash per 100 cfm



AFC FAULT CODES (RED LED)

AFC Fault LED	Description
OFF	No Fault
Solid On	Internal control failure
1	24VAC fuse blown
2	PM Data Corrupt or Missing / Motor Mismatch
4	Blower communication error (Status LED will be ON solid)
5	Internal communication error (refer to Unit LED on EVC, EHC, HHC) (1)(2)
11	EVC has detected a fault condition (refer to Fault LED on EVC)
12	EHC / HHC has detected a fault condition (refer to Fault LED on EHC / HHC)
NOTES:	(1) If Unit LED on AFC is flashing 2 times/second, AFC is causing the error.
	(2) Unit LED on suspect control will flash 2 times/second on the suspect control. All LED's will be off if power is not applied.

UNIT LED (BLUE LED)

Unit LED	Description
1 Flash	Normal (1 flash every 4 seconds)
Rapid	Communication Busy Error (2 flashes per second)
SOLID ON	Communications cannot be established with the AFC
Off	No Power

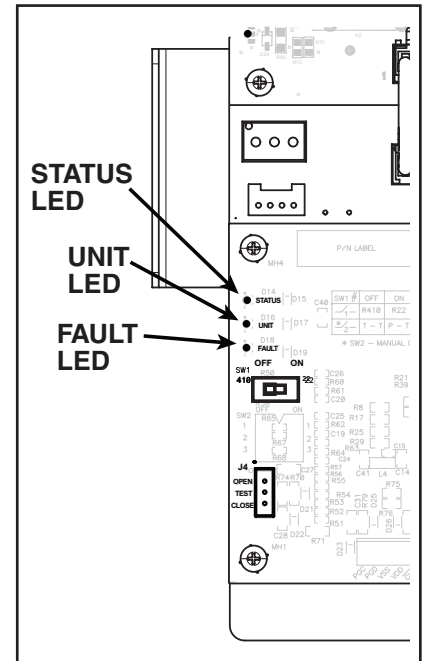
EVC STATUS CODES (GREEN LED)

EVC STATUS LED (Non Heat Pump Systems)

Flash	
1	Cool mode selected / No active call
2	Active call for 1st stage cooling
3	Active call for 2nd stage cooling (1)
NOTE:	(1) Single stage OD systems will report 2nd stage flash codes

EVC STATUS LED (Heat Pump Systems)

Flash	
1	Cool mode selected / No active call
2	Active call for 1st stage cooling or defrost
3	Active call for 2nd stage cooling or defrost (1)
4	Heat mode selected or Thermostat system switch off
5	Active call for 1st stage heating
6	Active call for 2nd stage heating (1)
NOTE:	(1) Single stage OD systems will report 2nd stage flash codes



EVC FAULT CODES (RED LED)

EVC Fault LED	Description
OFF	Standby
1	Stepper Motor coil has an open circuit or intermittent short
2	Control has detected an internal failure (Replace EEV control, EVC)
3	Gas Temperature Sensor (GT) input out of range (Verify resistance, 5VDC output from control)(1)
4	Evaporator Temperature Sensor (ET) input out of range (Verify resistance, 5VDC output from control)(1)
5	Stepper Motor Coil is shorted (2)
6	Valve is not responding to a change in position. (Possible stuck valve)
7	High superheat (Low charge or restriction)
10	Low superheat (Check airflow, possible stuck valve) (3)
11	Condensate drain switch activated for 100 seconds (Check condensate switch and drain)(2)
13	Indoor frost protection activated (Check refrigerant charge and airflow)(2)
14	Internal communication fault (All operation is terminated) (Cycle power & check wire terminations)
15	Configuration fault (All operation is terminated) (Cycle power & check if PM error is present)
16	Outdoor status fault (All operation is terminated)
NOTES:	(1) EEV will try to go to a safe position, cooling attempt allowed (2) K1 relay opens on EVC, Yo disabled (3) Cooling attempt allowed, 5 consecutive Y calls with same condition disables Yc

UNIT LED (BLUE LED)

Unit LED	Description
1 Flash	Normal (1 flash every 4 seconds)
Rapid	Communication Busy Error (2 flashes per second)
SOLID ON	Communications cannot be established with the AFC
Off	No Power

EHC STATUS CODES (GREEN LED)

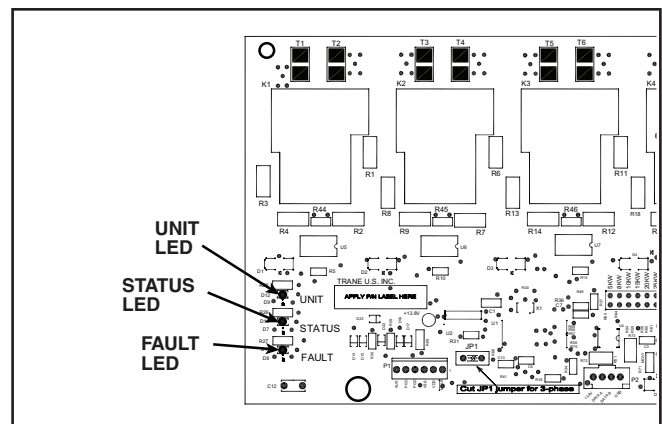
EHC STATUS LED	Description
1	1 heater relay energized or stand by (see note)
2	2 heater relays energized
3	3 heater relays energized
4	4 heater relays energized
5	5 heater relays energized
NOTES	Standby mode STATUS LED will flash 1 time per second
	On a call for heat, STATUS LED will flash per the table above every 4 seconds

EHC FAULT CODES (RED LED)

EHC Fault LED	Description
OFF	No fault
1	Internal communication error
2	Heat relay stuck open
3	Heat relay stuck closed
4	Non-cycling limit (NTCO) or element open
5	Cycling limit (CTCO)open
6	Configuration error (1)
8	Blower interlock relay stuck open or stuck closed
NOTES:	
	1) Confirm heater model and kw jumper match

UNIT LED (BLUE LED)

Unit LED	Description
1 Flash	Normal (1 flash every 4 seconds)
Rapid	Communication Busy Error (2 flashes per second)
SOLID ON	Communications cannot be established with the AFC
Off	No Power



HHC FAULT CODES (RED LED)

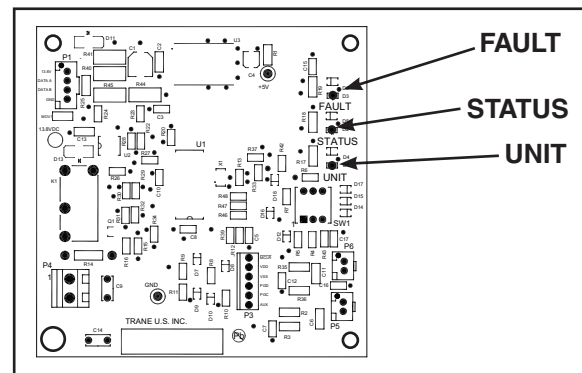
HHC Fault LED	Description
OFF	No fault
1	Internal communication error
2	Water temp is at 38F or lower
3	Water temp sensor is shorted
4	Water temp sensor is open
5	Configuration error (1)
6	Heat demand error
NOTES:	1) Confirm heater model and dip switch configuration

HHC STATUS CODES (GREEN LED)

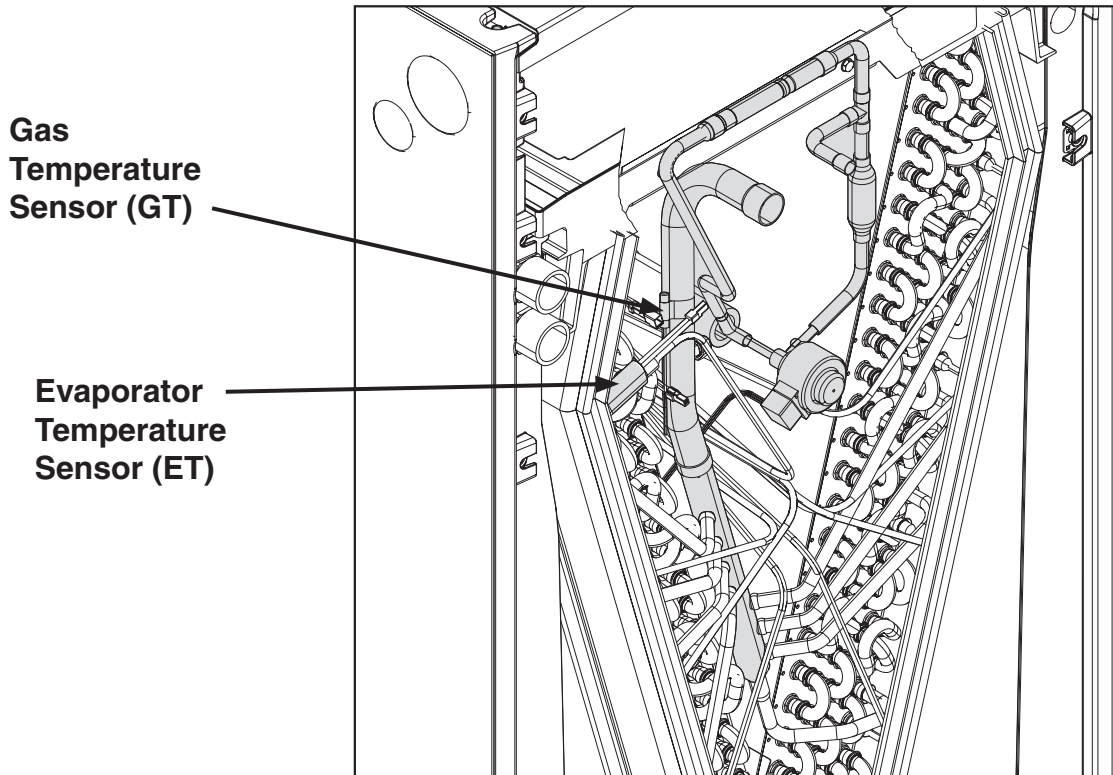
HHC STATUS LED	Description
1 per second	Standby or idle (see note)
2 per second	Heating demand is present

HHC UNIT LED (BLUE LED)

Unit LED	Description
1 Flash	Normal (1 flash every 4 seconds)
Rapid	Communication Busy Error (2 flashes per second)
SOLID ON	Communications cannot be established with the AFC
Off	No Power



EEV TEST PROCEDURES



Electronic Expansion Valve Test

Note: *Close Valve and Open Valve Tests are active in any mode of operation*

Test Pins: OPEN, CLOSE, TEST (See J4 on EVC Board)

Close Valve Test - Touch CLOSE pin to TEST pin.

EEV drives closed (5 seconds max) and stays closed for 1.5 minutes (90 seconds).

- 1) Status LED will be flashing.
- 2) Gauges should indicate suction pressure dropping.
 - Valve is working.
 - LPCO may trip.

Note: The *Close Valve Test* will exit after 1.5 minutes (90 seconds) and will not reinitiate (requires a break and make to initialize). To clear faults stored in memory, apply a jumper between Close and Test pins for 10 seconds.

Open Valve Test - Touch OPEN pin to TEST pin.

EEV drives open (5 sec max) and stays open for 30 seconds.

- 1) Status LED will be flashing.
- 2) Temperature probe should indicate superheat falling.
 - Valve is working.

Note: If jumper is left on pins, the OPEN VALVE TEST will be cleared after 30 seconds and will not reinitiate (requires a break and make to reinitialize).

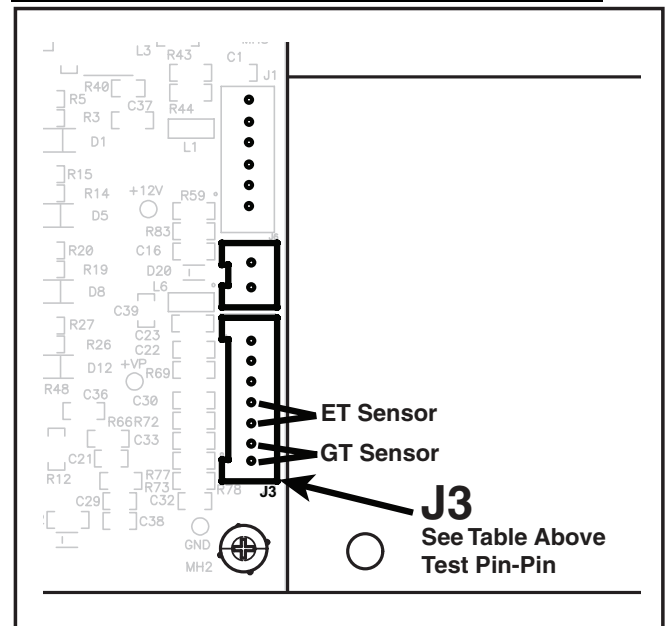
Exit Test Mode - The Open Valve Test or Closed Valve Test can be cancelled by momentarily jumping to the opposite mode Test pin. The system will return to normal super heat control.

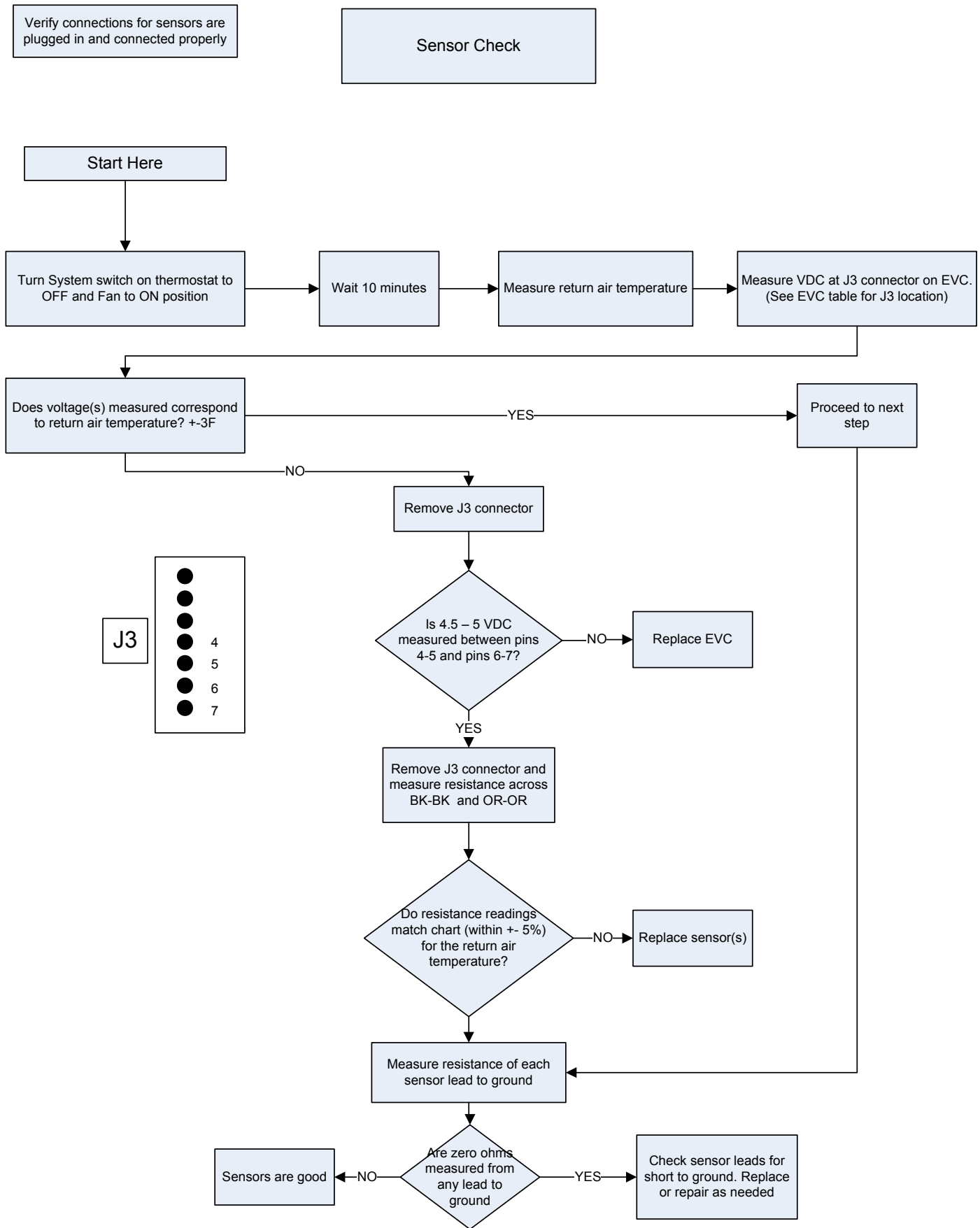
THERMAL RESISTANCE AND VOLTAGE TABLE

TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS)	Volts DC at plug J3 EVAP TEMP (ET) - Orange to Orange GAS TEMP (GT) - Black to Black
20	-6.7	45076	3.20
21	-6.1	43764	3.17
22	-5.6	42494	3.14
23	-5.0	41266	3.10
24	-4.4	40077	3.07
25	-3.9	38927	3.04
26	-3.3	37813	3.00
27	-2.8	36736	2.97
28	-2.2	35692	2.93
29	-1.7	34681	2.90
30	-1.1	33703	2.86
31	-0.6	32755	2.83
32	0.0	31838	2.80
33	0.6	30949	2.76
34	1.1	30087	2.73
35	1.7	29253	2.69
36	2.2	28445	2.66
37	2.8	27661	2.62
38	3.3	26902	2.59
39	3.9	26166	2.56
40	4.4	25452	2.52
41	5.0	24761	2.49
42	5.6	24090	2.45
43	6.1	23440	2.42
44	6.7	22810	2.39
45	7.2	22198	2.35
46	7.8	21605	2.32
47	8.3	21030	2.29
48	8.9	20472	2.25
49	9.4	19931	2.22
50	10.0	19405	2.19
51	10.6	18896	2.16
52	11.1	18401	2.12
53	11.7	17921	2.09
54	12.2	17455	2.06
55	12.8	17002	2.03
56	13.3	16563	2.00
57	13.9	16137	1.97
58	14.4	15723	1.94
59	15.0	15320	1.91
60	15.6	14930	1.88
61	16.1	14550	1.85
62	16.7	14182	1.82
63	17.2	13824	1.79
64	17.8	13476	1.76
65	18.3	13138	1.73
66	18.9	12810	1.70
67	19.4	12491	1.67
68	20.0	12181	1.65
69	20.6	11879	1.62
70	21.1	11586	1.59

TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS)	Volts DC at plug J3 EVAP TEMP (ET) - Orange to Orange GAS TEMP (GT) - Black to Black
72	22.2	11024	1.54
74	23.3	10492	1.49
76	24.4	9990	1.44
78	25.6	9515	1.39
80	26.7	9065	1.34
82	27.8	8639	1.29
84	28.9	8236	1.25
86	30.0	7855	1.20
88	31.1	7493	1.16
90	32.2	7150	1.12
92	33.3	6825	1.08
94	34.4	6516	1.04
96	35.6	6224	1.01
98	36.7	5946	0.97
100	37.8	5682	0.93
102	38.9	5432	0.90
104	40.0	5194	0.87
106	41.1	4968	0.84
108	42.2	4753	0.81
110	43.3	4548	0.78
112	44.4	4354	0.75
114	45.6	4169	0.72
116	46.7	3992	0.70
118	47.8	3825	0.67
120	48.9	3665	0.65
122	50.0	3513	0.62
124	51.1	3368	0.60
126	52.2	3230	0.58
128	53.3	3098	0.56
130	54.4	2972	0.54
132	55.6	2853	0.52
134	56.7	2738	0.50
136	57.8	2629	0.48
138	58.9	2525	0.46
140	60.0	2425	0.45
142	61.1	2330	0.43
144	62.2	2239	0.42
146	63.3	2153	0.40
148	64.4	2070	0.39
150	65.6	1990	0.37

Note: ET sensor wiring may be brown





Note: ET sensor wiring may be brown

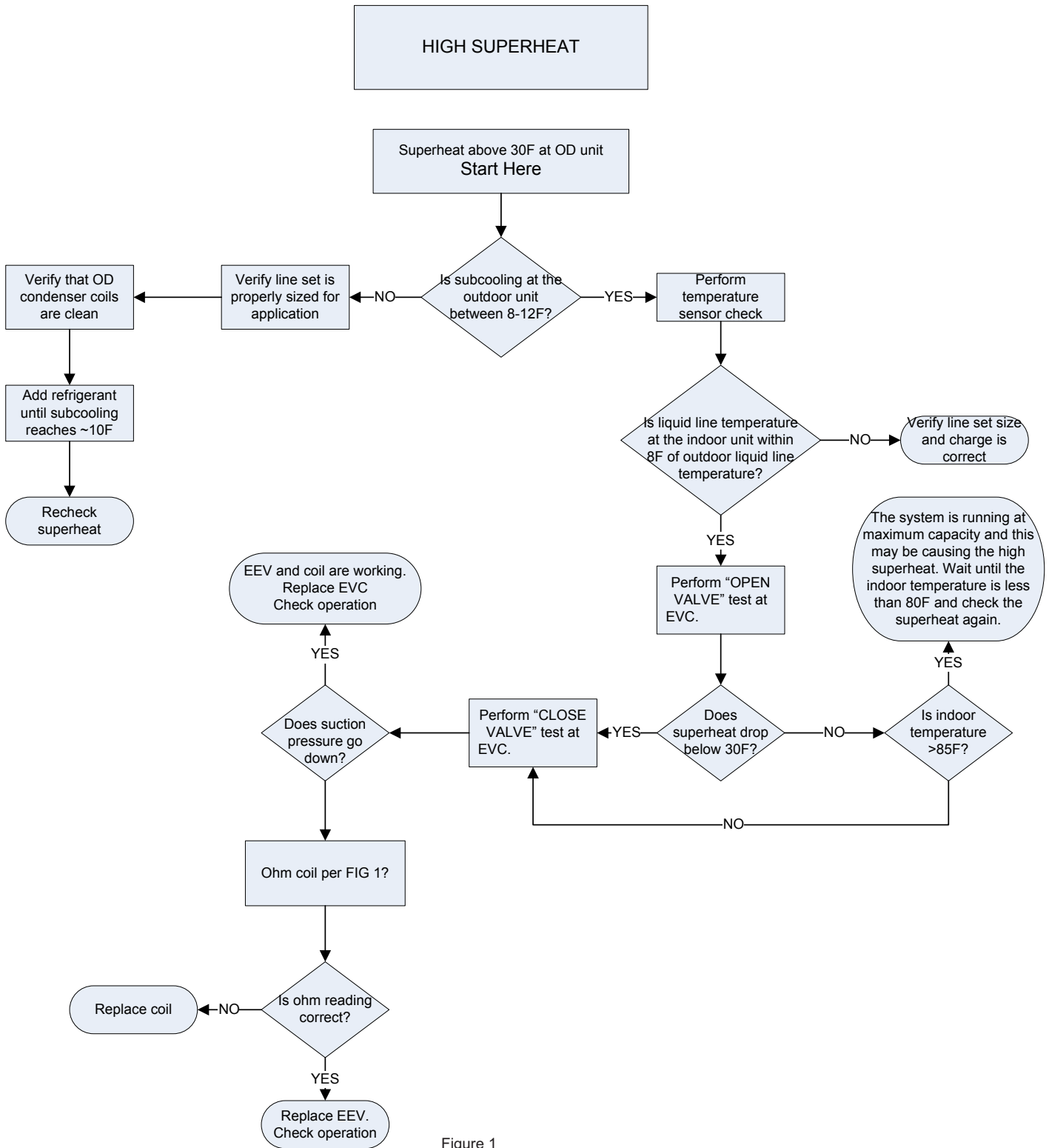
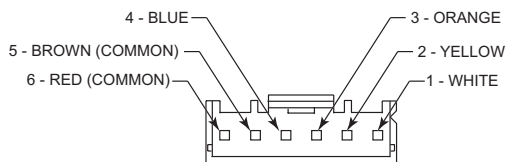


Figure 1
4 - Phase Coil Control



- Brown (common) to Blue or Yellow should measure 46 ohms
- Red (common) to Orange or White should measure 46 ohms

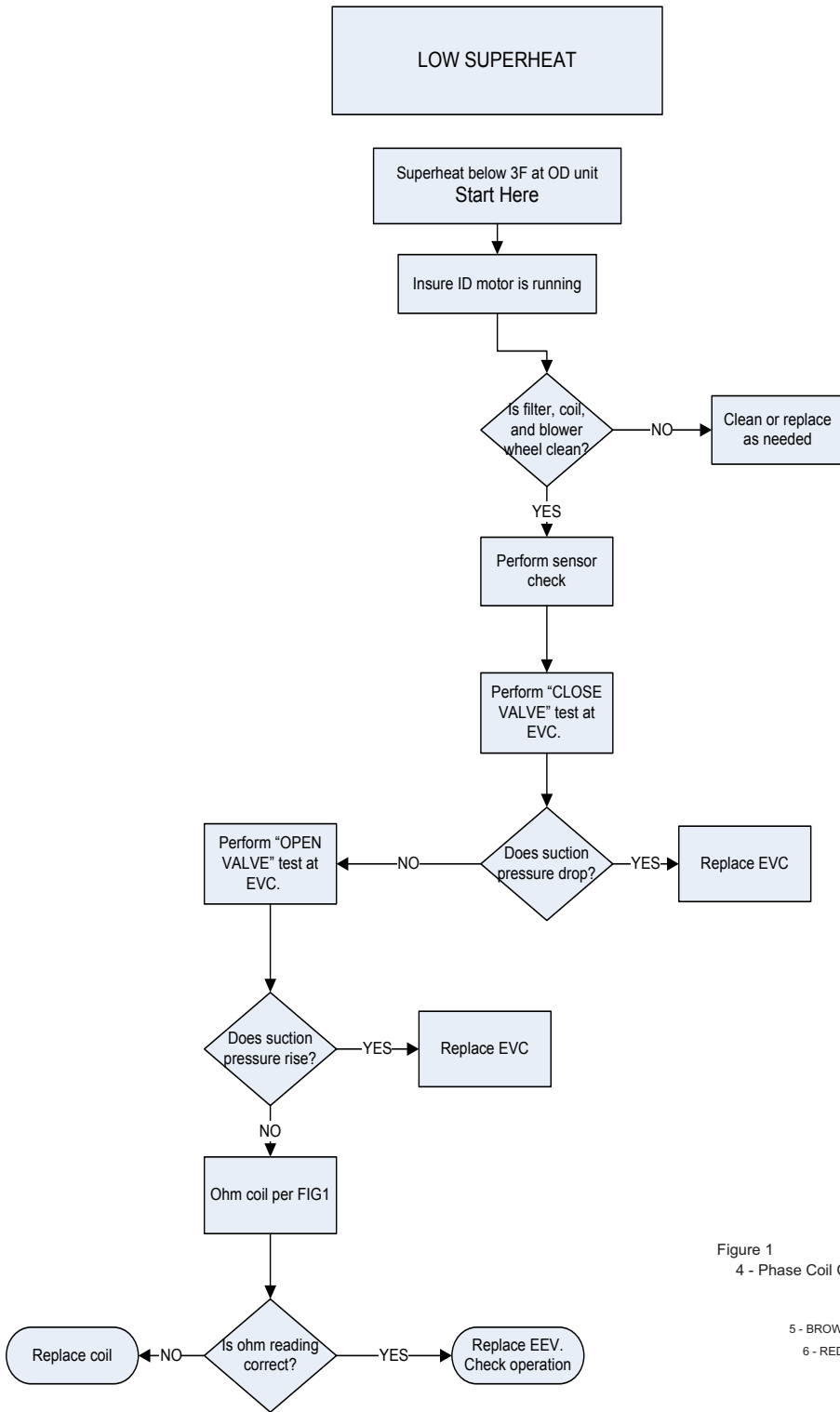
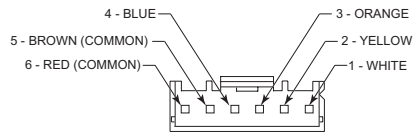


Figure 1
4 - Phase Coil Control



- Brown (common) to Blue or Yellow should measure 46 ohms
- Red (common) to Orange or White should measure 46 ohms