

# Service Facts

## Air Handler – Convertible

### Black Epoxy Coils

TAM7A0A24H21EA

TAM7A0B30H21EA

TAM7A0C36H31EA

TAM7A0C42H31EA

TAM7A0C48H41EA

TAM7B0C60H51EA



Scan or click to view  
TAM7 Trouble Shooting  
Video Library

### Standard Coils

TAM7A0A24H21SD

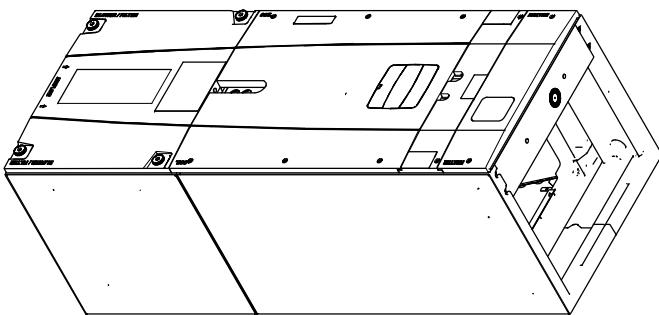
TAM7A0B30H21SD

TAM7A0C36H31SD

TAM7A0C42H31SD

TAM7A0C48H41SD

TAM7B0C60H51SC



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

*Note: For use with BAYEV or BAYW series heaters ONLY*

## A SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

# SAFETY SECTION

## AIR HANDLERS

**Important** – This document contains a wiring diagram, a parts list, 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

#### HAZARDOUS VOLTAGE!

Failure to follow this Warning could result in property damage, severe personal injury, or death. Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized.

### ⚠ WARNING

#### LIVE ELECTRICAL COMPONENTS!

Failure to follow this Warning could result in property damage, severe personal injury, or death. Follow all electrical safety precautions when exposed to live electrical components. It may be necessary to work with live electrical components during installation, testing, servicing, and troubleshooting of this product.

### ⚠ WARNING

#### PRESSURIZED REFRIGERANT!

Failure to follow this Warning could result in personal injury. System contains oil and refrigerant under high pressure. Recover refrigerant to relieve pressure before opening the system. Do no use non-approved refrigerants or refrigerant substitutes or refrigerant additives.

### ⚠ CAUTION

#### SHARP EDGE HAZARD!

Failure to follow this Caution could result in property damage or personal injury. Be careful of sharp edges on equipment or any cuts made on sheet metal while installing or servicing.

*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.

# Product Specifications

<b>MODEL</b>	<b>TAM7A0A24H21SD TAM7A0A24H21EA</b>	<b>TAM7A0B30H21SD TAM7A0B30H21EA</b>	<b>TAM7A0C36H31SD TAM7A0C36H31EA</b>
<b>RATED VOLTS/PH/HZ.</b>	200-230/1/60	200-230/1/60	200-230/1/60
<b>RATINGS (a)</b>	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
<b>INDOOR COIL – Type</b>	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.) <sup>(b)</sup>	3/4 NPT	3/4 NPT	3/4 NPT
<b>DUCT CONNECTIONS</b>	See Outline Drawing	See Outline Drawing	See Outline Drawing
<b>INDOOR FAN – Type</b>	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 – 3.9 <sup>(c)</sup>	3.0 – 3.9 <sup>(c)</sup>	3.0 – 3.9 <sup>(c)</sup>
<b>FILTER</b>			
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.
<b>REFRIGERANT</b>	<b>R-410A</b>	<b>R-410A</b>	<b>R-410A</b>
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
<b>DIMENSIONS</b>	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
<b>WEIGHT</b>			
Shipping (Lbs.)/Net (Lbs.)	127/116	150/138	157/146

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

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

(c) Check motor nameplate for actual FLA.

## Product Specifications

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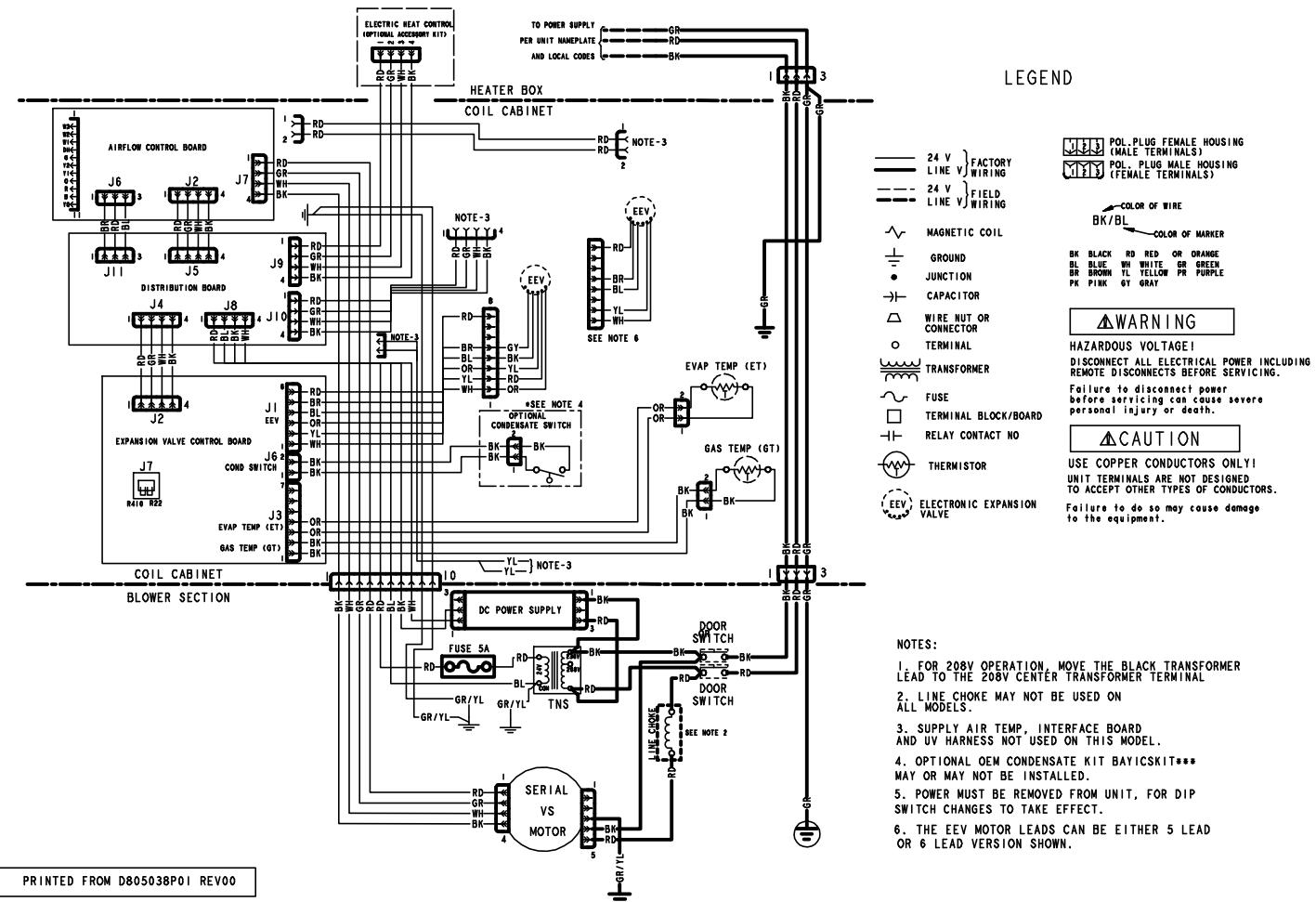
<b>MODEL</b>	<b>TAM7A0C42H31SD TAM7A0C42H31EA</b>	<b>TAM7A0C48H41SD TAM7A0C48H41EA</b>	<b>TAM7B0C60H51SC TAM7B0C60H51EA</b>
<b>RATED VOLTS/PH/Hz.</b>	200-230/1/60	200-230/1/60	200-230/1/60
<b>RATINGSS (a)</b>	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
<b>INDOOR COIL – Type</b>	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.) <sup>(b)</sup>	3/4 NPT	3/4 NPT	3/4 NPT
<b>DUCT CONNECTIONS</b>	See Outline Drawing	See Outline Drawing	See Outline Drawing
<b>INDOOR FAN – Type</b>	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 - 1
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 – 3.9 <sup>(c)</sup>	4.2	5.5
<b>FILTER</b>			
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.
<b>REFRIGERANT</b>	<b>R-410A</b>	<b>R-410A</b>	<b>R-410A</b>
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
<b>DIMENSIONS</b>	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
<b>WEIGHT</b>			
Shipping (lbs.)/Net (lbs.)	162/151	175/163	175/163

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

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

(c) Check motor nameplate for actual FLA

# Wiring – D805038P01Rev00



# TAM7 Sequence of Operation

## Abbreviations

- AFC = Airflow Control
- EVC = Expansion Valve Control
- EEV = Electronic Expansion Valve
- EHC = Electric Heat Control
- HHC= Hydronic 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 a unique 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.

## Heat pump 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.

## 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. Heat pump 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 heat pump 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.

## TAM7 Sequence of Operation

### 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. **Heat pump** 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-Heat pump** 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.

### 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 on exterior of the unit. The 3rd party condensate overflow switch must be wired between Y of the thermostat and YI of the AFC control.

### 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 5 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

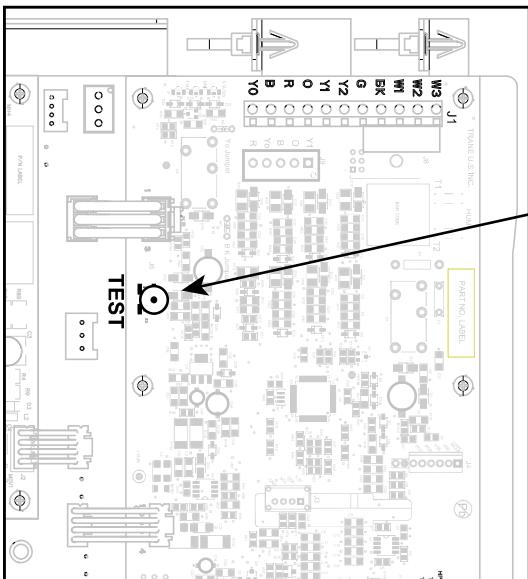
This unit stores the last four faults that have occurred. Each device will report the last four faults after each power cycle of the unit. See the Fault Table section in the Service Facts for a list of fault codes.

## Clearing Faults

To clear the last four faults of all control boards:

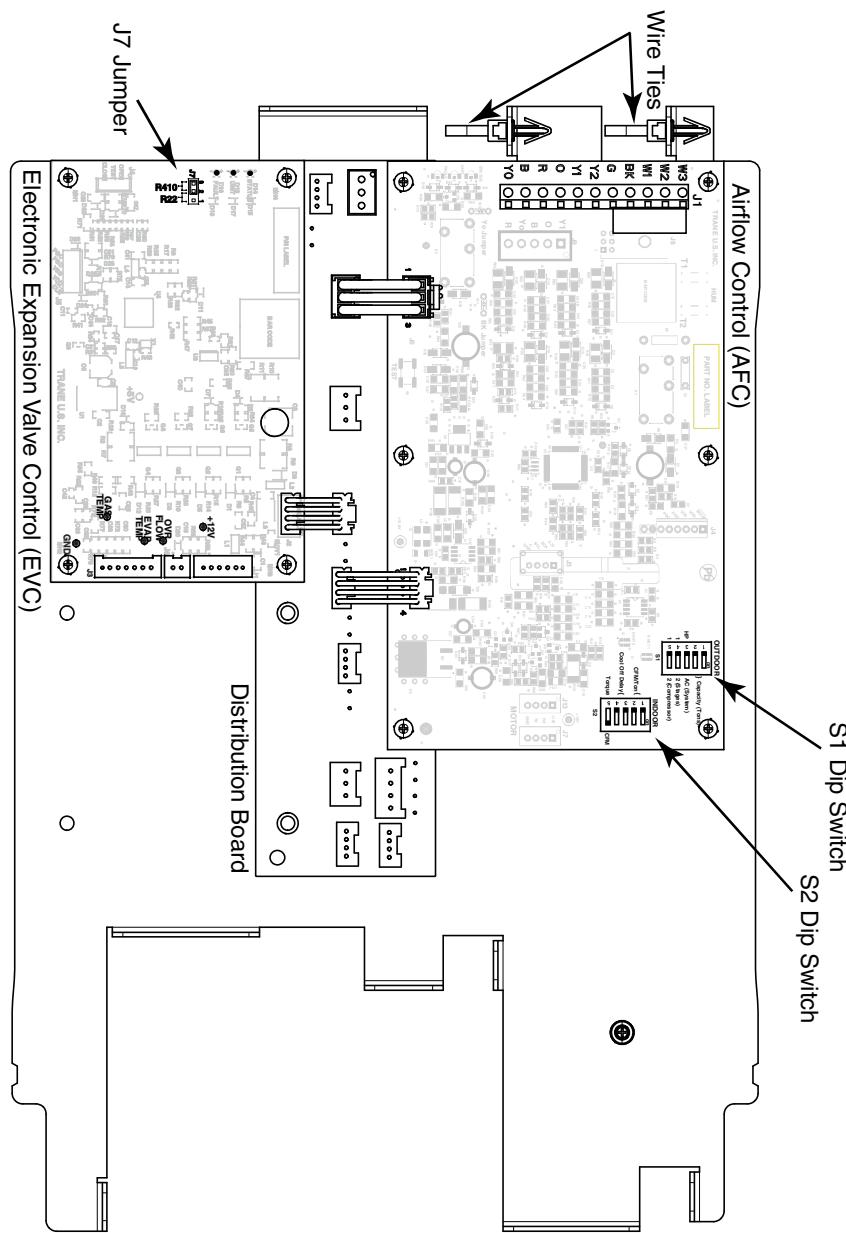
1. Press and hold the Unit Test Button for 10-12 seconds.
2. Release the Unit Test button and "wait" 5 seconds.
3. Cycle 230VAC power to the unit. (the blower panel can be removed to achieve this)

## Unit Test Button



## Airflow Control (AFC)

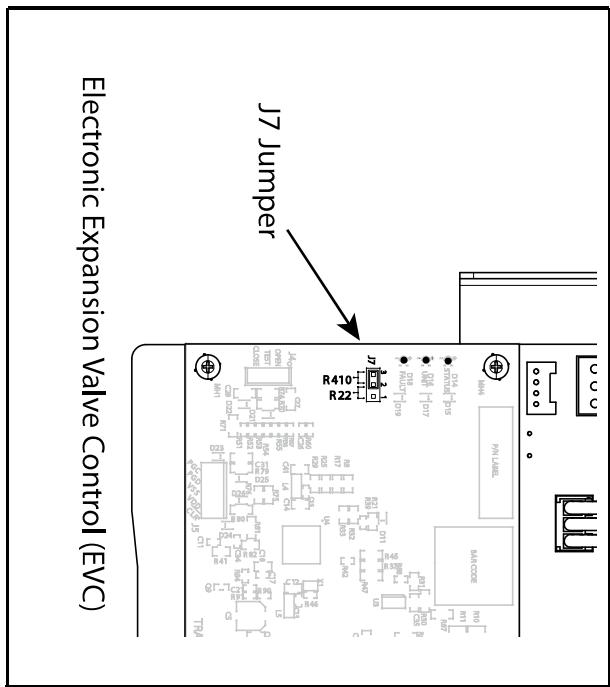
# Control Layout



## Refrigerant Jumper J7

- Set the system refrigerant to either R-410A or R-22 using the Refrigerant Jumper located on the Expansion Valve Control Board (EVC) in the Control pocket.
- Factory default is R-410.

**Note:** The power must be shut off and then re-applied in order for the EVC to recognize the change.



# Dip Switches



Scan to see a video on setting the TAM7 Dip Switches.

Click or Scan to see a video on setting the TAM7 Dip Switches

## Dip Switch S1

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

### INDOOR MODEL

### S1-1

### S1-2

### OD MULTIPLIER

TAM7A0A24H21SD	OFF	OFF	2
TAM7A0A24H21EA	ON	OFF	1.5
	ON	ON	2.5
	ON	ON	3

### TAM7A0B30H21SD

### OFF

### OFF

### 2

### TAM7A0B30H21EA

### ON

### ON

### 3

### TAM7A0C36H31SD

### OFF

### OFF

### 3

### TAM7A0C36H31EA

### ON

### ON

### 2.5

### TAM7A0C42H31SD

### OFF

### OFF

### 3.5

### TAM7A0C42H31EA

### ON

### ON

### 2.5

### TAM7A0C48H41SD

### OFF

### OFF

### 4

### TAM7A0C48H41EA

### ON

### ON

### 3

### TAM7B0C60H51SC

### OFF

### OFF

### 4.5\*\*

### TAM7B0C60H51EA

### ON

### ON

### 3.5

### TAM7B0C60H51EA

### ON

### ON

### 4

### TAM7B0C60H51EA

### ON

### ON

### 5

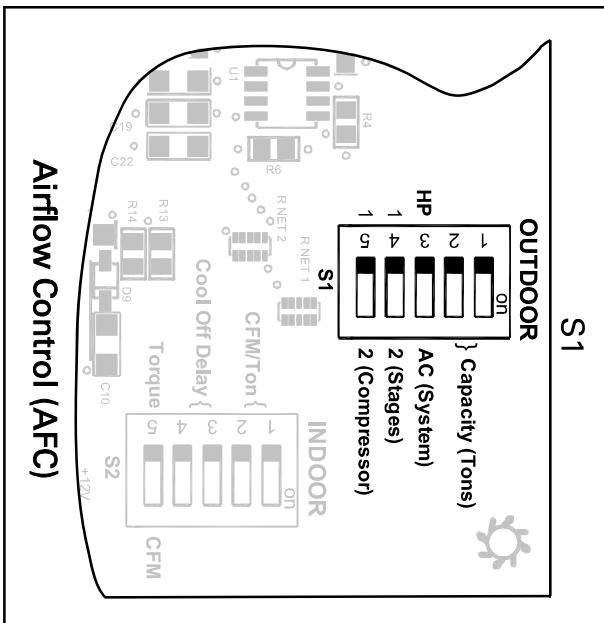
**Note:** The OD multiplier in conjunction with the CFM/Ton can be used to adjust total airflow for your application.

Example:  $4.5T \times 370 \text{ CFM}/\text{TON} = 1665 \text{ CFM}$

\*\* Not an actual OD size

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

OD TYPE	S1-3
HP	OFF
AC	ON



## Airflow Control (AFC)

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

**Note:** Refer to the field wiring diagram of the Outdoor Unit to determine if the unit is 1 or 2 stage.

**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

## Dip Switches

- 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
TAM7A0A24H21SD	OFF	OFF	400	430
TAM7A0A24H21EA	ON	OFF	360	390
	ON	ON	380	410
			420	450
TAM7A0B30H21SD	OFF	OFF	400	430
TAM7A0B30H21EA	ON	OFF	360	390
	ON	ON	380	410
			420	450
TAM7A0C36H31SD	OFF	OFF	370	420
TAM7A0C36H31EA	ON	OFF	350	400
	ON	ON	390	440
			410	450
TAM7A0C42H31SD	OFF	OFF	370	400
TAM7A0C42H31EA	ON	OFF	330	360
	ON	ON	350	380
			390	420
TAM7A0C48H41SD	OFF	OFF	350	400
TAM7A0C48H41EA	ON	OFF	330	380
	ON	ON	370	420
			390	440
TAM7B0C60H51SC	OFF	OFF	370	400
TAM7B0C60H51EA	ON	OFF	390	420
	ON	ON	400	430

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

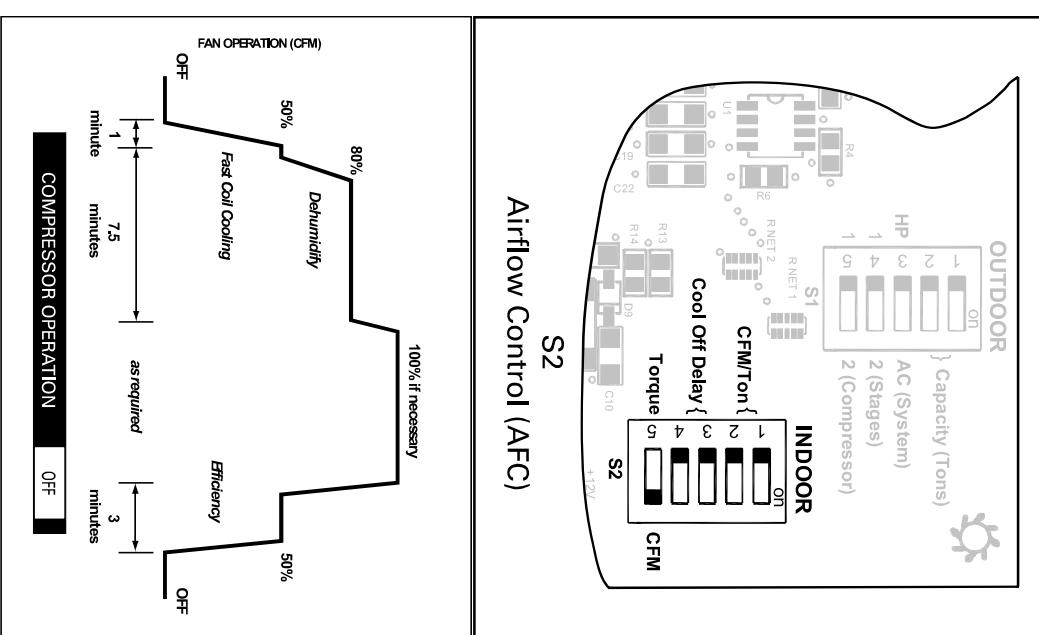
BLOWER OFF DELAY	S2-3	S2-4
1.5M @ 100%	OFF	OFF
NO DELAY	OFF	ON
3M @ 50%	ON	OFF
ENHANCED	ON	ON

### 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



- All zoning applications MUST be set to Constant CFM mode.
- 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.

TAM7A0A24 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	360 CFM/ton	CFM Watts	542 / 652 38 / 59	547 / 559 67 / 71	548 / 407 101 / 78	547 / NA 137 / NA	541 / NA 175 / NA	390 CFM/ton	CFM Watts	586 46	599 80	600 115	599 153	595 192
	380 CFM/ton	CFM Watts	574 / 679 43 / 65	583 / 593 75 / 78	587 / 464 110 / 87	588 / 167 148 / 94	581 / NA 185 / NA	410 CFM/ton	CFM Watts	618 53	633 88	636 124	637 163	629 202
	400 CFM/ton	CFM Watts	605 / 705 49 / 71	618 / 626 82 / 85	624 / 513 119 / 96	625 / 325 158 / 101	618 / NA 196 / NA	430 CFM/ton	CFM Watts	650 59	665 96	669 134	672 174	660 212
	420 CFM/ton	CFM Watts	636 / 731 55 / 78	651 / 658 90 / 93	659 / 556 128 / 105	660 / 406 168 / 112	653 / NA 207 / NA	450 CFM/ton	CFM Watts	681 66	696 104	703 144	704 185	696 225
2 tons †	360 CFM/ton	CFM Watts	723 / 809 75 / 101	743 / 746 115 / 118	754 / 666 158 / 133	756 / 563 201 / 144	748 / 428 242 / 153	390 CFM/ton	CFM Watts	780 94	800 137	809 182	811 227	802 268
	380 CFM/ton	CFM Watts	761 / 843 86 / 113	782 / 784 128 / 131	793 / 710 172 / 146	796 / 617 216 / 159	788 / 500 259 / 168	410 CFM/ton	CFM Watts	818 106	838 151	848 198	851 244	842 287
	400 † CFM/ton	CFM Watts	799 / 877 97 / 125	820 / 821 141 / 144	832 / 751 187 / 161	835 / 666 233 / 174	827 / 561 276 / 183	430 CFM/ton	CFM Watts	856 119	876 167	887 215	889 262	881 307
	420 CFM/ton	CFM Watts	836 / 911 109 / 139	858 / 858 155 / 158	870 / 792 203 / 175	873 / 712 250 / 189	866 / 615 294 / 199	450 CFM/ton	CFM Watts	894 134	913 183	925 233	927 282	920 327
2.5 tons	360 CFM/ton	CFM Watts	892 / 979 130 / 168	914 / 930 179 / 189	927 / 869 229 / 207	930 / 796 278 / 222	923 / 796 324 / 222	390 CFM/ton	CFM Watts	964 164	986 218	997 271	1000 322	992 370
	380 CFM/ton	CFM Watts	939 / 1024 149 / 190	962 / 976 201 / 211	974 / 918 253 / 230	978 / 849 304 / 244	971 / 766 351 / 255	410 CFM/ton	CFM Watts	1013 188	1034 244	1045 299	1049 353	1040 400
	400 CFM/ton	CFM Watts	986 / 1070 170 / 215	1009 / 1023 225 / 236	1022 / 967 279 / 255	1026 / 901 332 / 270	1019 / 821 380 / 280	430 CFM/ton	CFM Watts	1063 214	1083 273	1095 331	1097 385	1089 434
	420 CFM/ton	CFM Watts	1035 / 1118 194 / 242	1058 / 1072 251 / 264	1071 / 1018 308 / 282	1074 / 953 362 / 297	1066 / 877 411 / 307	450 CFM/ton	CFM Watts	1114 243	1135 305	1145 365	1145 420	1135 469
3 tons	360 CFM/ton	CFM Watts	1065 / 1148 209 / 261	1088 / 1102 269 / 282	1101 / 1048 327 / 301	1103 / 985 382 / 315	1095 / 910 431 / 325	390 CFM/ton	CFM Watts	1160 272	1181 337	1190 397	1189 453	1157 486
	380 CFM/ton	CFM Watts	1126 / 1209 244 / 301	1149 / 1164 307 / 322	1160 / 1111 367 / 341	1161 / 1050 423 / 355	1151 / 978 472 / 364	410 CFM/ton	CFM Watts	1225 317	1244 384	1249 444	1230 486	1146 477
	400 CFM/ton	CFM Watts	1190 / 1271 285 / 347	1211 / 1227 350 / 368	1220 / 1175 412 / 386	1218 / 1115 467 / 399	1164 / 1046 483 / 408	430 CFM/ton	CFM Watts	1291 368	1305 434	1298 486	1217 476	1135 468
	420 CFM/ton	CFM Watts	1255 / 1334 331 / 397	1273 / 1289 397 / 418	1278 / 1239 459 / 435	1237 / 1180 483 / 448	1151 / 1113 475 / 455	450 CFM/ton	CFM Watts	1355 422	1361 485	1285 475	1206 467	1124 460
<ul style="list-style-type: none"> <li>† Factory Setting</li> <li>Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.</li> </ul>								<ul style="list-style-type: none"> <li>Torque mode will reduce airflow when static is above approximately 0.3" water column.</li> <li>All heating modes default to Constant CFM.</li> <li>Cooling airflow values are with wet coil, no filter</li> </ul>						
MINIMUM HEATER AIRFLOW CFM — HEATER MATRIX														
MODEL NO.	BAYEVAC04BK1 BAYEVAC04LG1 BAYEVAC05BK1 BAYEVAC05LG1	BAYEVAC08BK1 BAYEVAC08LG1	BAYEVAC10BK1 BAYEVAC10LG1	BAYEVAC10LG3	BAYEVBC15LG3	BAYEVBC15BK1	BAYEVBC20BK1							
TAM7A0A24	638/713	638/900	675 <sup>(a)</sup> /900	600/713	-	-	-							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE FOR APPROVED COMBINATIONS														
<b>Note:</b> Minimum auxiliary heating airflow is automatically configured by the air handler model and the auxiliary heater model number. This is not field adjustable.														

<sup>(a)</sup> Heater not qualified for 208V when installed in horizontal left position without Heat Pump

TAM7A0B30 AIRFLOW PERFORMANCE			CONSTANT CFM MODE / CONSTANT TORQUE MODE											
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
1.5 tons	360 CFM/ton	CFM Watts	581 / 685 30 / 41	560 / 538 58 / 56	533 / 299 87 / 63	509 / NA 118 / NA	482 / NA 150 / NA	390 CFM/ton	CFM Watts	630 35	609 65	588 96	566 128	540 161
	380 CFM/ton	CFM Watts	618 / 711 33 / 45	593 / 572 62 / 60	569 / 359 93 / 68	547 / NA 125 / NA	524 / NA 158 / NA	410 CFM/ton	CFM Watts	657 38	639 70	621 102	601 136	578 169
	400 CFM/ton	CFM Watts	645 / 738 37 / 49	624 / 605 67 / 65	604 / 410 99 / 73	584 / NA 132 / NA	562 / NA 166 / NA	430 CFM/ton	CFM Watts	683 42	669 75	653 109	636 143	614 177
	420 CFM/ton	CFM Watts	659 / 751 38 / 50	639 / 621 69 / 67	620 / 434 102 / 76	602 / NA 136 / NA	581 / NA 170 / NA	450 CFM/ton	CFM Watts	709 45	698 80	685 115	669 151	649 186
2 tons †	360 CFM/ton	CFM Watts	750 / 840 51 / 66	741 / 726 87 / 85	731 / 575 125 / 96	719 / 344 163 / 99	704 / NA 200 / NA	390 CFM/ton	CFM Watts	800 60	797 99	791 139	781 180	766 219
	380 CFM/ton	CFM Watts	784 / 874 57 / 72	779 / 764 95 / 92	771 / 622 134 / 104	762 / 419 174 / 107	748 / NA 213 / NA	410 CFM/ton	CFM Watts	834 66	834 107	830 150	822 192	810 233
	400 † CFM/ton	CFM Watts	818 / 908 62 / 79	816 / 802 103 / 100	811 / 667 144 / 113	803 / 484 186 / 117	792 / NA 227 / NA	430 CFM/ton	CFM Watts	868 73	871 116	869 161	864 205	853 248
	420 CFM/ton	CFM Watts	835 / 924 66 / 83	834 / 820 107 / 104	831 / 689 150 / 118	824 / 513 192 / 122	813 / 180 234 / 132	450 CFM/ton	CFM Watts	902 80	908 126	908 172	905 219	895 263
2.5 tons	360 CFM/ton	CFM Watts	904 / 1017 80 / 105	908 / 921 125 / 129	909 / 804 172 / 144	907 / 658 219 / 150	898 / 454 264 / 148	390 CFM/ton	CFM Watts	967 95	977 145	982 196	982 247	974 295
	380 CFM/ton	CFM Watts	947 / 1061 89 / 117	955 / 968 138 / 142	959 / 856 188 / 158	958 / 718 237 / 165	951 / 538 285 / 163	410 CFM/ton	CFM Watts	1012 106	1025 160	1033 214	1034 2168	1027 318
	400 CFM/ton	CFM Watts	991 / 1106 100 / 131	1002 / 1016 152 / 156	1009 / 908 205 / 174	1010 / 779 257 / 182	1003 / 614 307 / 180	430 CFM/ton	CFM Watts	1057 119	1074 176	1084 234	1087 290	1078 342
	420 CFM/ton	CFM Watts	1013 / 1129 106 / 138	1026 / 1040 159 / 164	1034 / 934 214 / 182	1036 / 808 268 / 190	1029 / 650 318 / 189	450 CFM/ton	CFM Watts	1104 133	1124 194	1136 255	1139 314	1128 366
3 tons	360 CFM/ton	CFM Watts	1063 / 1182 120 / 156	1080 / 1095 177 / 182	1091 / 993 236 / 201	1094 / 873 292 / 211	1085 / 727 344 / 210	390 CFM/ton	CFM Watts	1147 147	1170 211	1184 276	1185 336	1170 389
	380 CFM/ton	CFM Watts	1120 / 1241 137 / 178	1140 / 1157 199 / 205	1153 / 1059 262 / 225	1156 / 945 321 / 235	1444 / 809 374 / 236	410 CFM/ton	CFM Watts	1208 168	1233 238	1247 306	1245 367	1223 418
	400 CFM/ton	CFM Watts	1179 / 1304 157 / 203	1202 / 1221 224 / 231	1216 / 1127 290 / 252	1216 / 1018 351 / 263	1198 / 890 403 / 265	430 CFM/ton	CFM Watts	1271 193	1298 267	1309 337	1300 398	1271 446
	420 CFM/ton	CFM Watts	1210 / 1337 168 / 217	1233 / 1255 237 / 246	1247 / 1162 305 / 267	1245 / 1055 306 / 279	1224 / 931 417 / 281	450 CFM/ton	CFM Watts	1338 221	1363 299	1368 369	1350 427	1314 472
<ul style="list-style-type: none"> <li>† Factory Setting</li> <li>Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.</li> </ul>								<ul style="list-style-type: none"> <li>Torque mode will reduce airflow when static is above approximately 0.35" water column.</li> <li>All heating modes default to Constant CFM.</li> <li>Cooling airflow values are with wet coil, no filter</li> </ul>						
MINIMUM HEATER AIRFLOW CFM — HEATER MATRIX														
MODEL NO.	BAYEVAC04BK1 BAYEVAC04LG1 BAYEVAC05BK1 BAYEVAC05LG1	BAYEVAC08BK1 BAYEVAC08LG1	BAYEVAC10BK1 BAYEVAC10LG1	BAYEVAC10LG3	BAYEVBC15LG3	BAYEVBC15BK1	BAYEVBC20BK1							
TAM7A0B30	723/808	723/1020	765/1020	680/808	765/1063	850/1105	-							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE FOR APPROVED COMBINATIONS														
<b>Note:</b> Minimum auxiliary heating airflow is automatically configured by the air handler model and the auxiliary heater model number. This is not field adjustable.														

TAM7A0C36 AIRFLOW PERFORMANCE			CONSTANT CFM MODE / CONSTANT TORQUE MODE											
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
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/ton	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/ton	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/ton	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/ton	CFM Watts	902 72	895 114	897 158	902 203	912 249
2.5 tons	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/ton	CFM Watts	992 91	991 138	998 188	1005 237	1014 287
	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/ton	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/ton	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/ton	CFM Watts	1105 119	1113 174	1125 231	1136 287	1141 341
3 tons +	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/ton	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/ton	CFM Watts	1234 159	1251 223	1267 288	1275 351	1272 406
	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/ton	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/ton	CFM Watts	1327 192	1348 264	1362 264	1364 396	1350 449
3.5 tons	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/ton	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/ton	CFM Watts	1459 248	1478 327	1481 397	1467 456	1395 476
	390 CFM/ton	CFM vWatts	1342 / 1481 200 / 255	1367 / 1393 273 / 282	1380 / 1301 343 / 304	1378 / 1206 405 / 320	1358 / 1108 456 / 329	440 CFM/ton	CFM Watts	1538 287	1550 366	1542 433	1504 4578	1388 472
	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/ton	CFM Watts	1575 307	1583 385	1570 450	1501 477	1385 470

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.35" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

#### MINIMUM HEATER AIRFLOW CFM — HEATER MATRIX

MODEL NO.	BAYEVAC04BK1 BAYEVAC04LG1 BAYEVAC05BK1 BAYEVAC05LG1	BAYEVAC08BK1 BAYEVAC08LG1	BAYEVAC10BK1 BAYEVAC10LG1	BAYEVAC10LG3	BAYEVBC15LG3	BAYEVBC15BK1	BAYEVBC20BK1
TAM7A0C36	876/979	876/1236	927/1236	824/979	927/1288	1030/1339	1236/1442
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE							
<b>Note:</b> Minimum auxiliary heating airflow is automatically configured by the air handler model and the auxiliary heater model number. This is not field adjustable.							

			TAM7A0C42 AIRFLOW PERFORMANCE					CONSTANT CFM MODE / CONSTANT TORQUE MODE						
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9
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
3 tons	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
	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 / 342	1168 / 828 379 / 242	420 CFM/ton	CFM Watts	1239 177	1247 243	1256 309	1261 373	1259 432
3.5 tons †	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
<ul style="list-style-type: none"> <li>† Factory Setting</li> <li>Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.</li> </ul>								<ul style="list-style-type: none"> <li>Torque mode will reduce airflow when static is above approximately 0.35" water column.</li> <li>All heating modes default to Constant CFM.</li> <li>Cooling airflow values are with wet coil, no filter</li> </ul>						
MINIMUM HEATER AIRFLOW CFM — HEATER MATRIX														
MODEL NO.	BAYEVAC04BK1 BAYEVAC04LG1 BAYEVAC05BK1 BAYEVAC05LG1	BAYEVAC08BK1 BAYEVAC08LG1	BAYEVAC10BK1 BAYEVAC10LG1	BAYEVAC10LG3	BAYEVBC15LG3	BAYEVBC15BK1	BAYEVBC20BK1							
TAM7A0C42	978/1093	978/1380	1035/1380	920/1093	1035/1438	1150/1495	1380/1610							
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE														
<b>Note:</b> Minimum auxiliary heating airflow is automatically configured by the air handler model and the auxiliary heater model number. This is not field adjustable.														

TAM7A0C48 AIRFLOW PERFORMANCE			CONSTANT CFM MODE / CONSTANT TORQUE MODE											
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			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	1006 / 786 232 / 173	886 / 622 195 / 137	994 / 654 270 / 174	380 CFM/ton	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	1065 / 859 252 / 192	1065 / 859 252 / 192	1053 / 738 292 / 194	400 CFM/ton	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	1122 / 929 274 / 212	1208 / 1029 309 / 244	1112 / 816 315 / 215	420 CFM/ton	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	1180 / 996 297 / 233	1353 / 1190 377 / 305	1170 / 890 341 / 238	440 CFM/ton	CFM Watts	1314 182	1322 246	1324 307	1322 363	1316 413
3.5 tons	330 CFM/ton	CFM Watts	1164 / 1274 132 / 162	1171 / 1179 189 / 191	1165 / 980 291 / 227	1031 / 817 240 / 181	1156 / 872 334 / 232	380 CFM/ton	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	1232 / 1056 319 / 253	1232 / 1056 319 / 253	1224 / 955 365 / 259	400 CFM/ton	CFM Watts	1388 211	1398 279	1400 343	1399 403	1395 457
	370 CFM/ton	CFM Watts	1292 / 1400 174 / 210	1300 / 1313 237 / 241	1299 / 1132 350 / 281	1401 / 1244 402 / 328	1292 / 1036 399 / 288	420 CFM/ton	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	1367 / 1207 384 / 312	1575 / 1434 505 / 422	1361 / 1115 435 / 320	440 CFM/ton	CFM Watts	1523 272	1534 347	1538 418	1538 483	1534 542
4 tons +	330 CFM/ton	CFM Watts	1315 / 1443 212 / 228	1324 / 1358 247 / 260	1323 / 1181 362 / 301	1170 / 1010 293 / 237	1316 / 1088 412 / 308	380 CFM/ton	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	1401 / 1266 402 / 338	1401 / 1266 402 / 338	1395 / 1177 455 / 346	400 CFM/ton	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	1480 / 1352 446 / 379	1600 / 1483 521 / 450	1475 / 1267 502 / 388	420 CFM/ton	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 / 1439 495 / 425	1793 / 1701 663 / 592	1554 / 1356 553 / 434	440 CFM/ton	CFM Watts	1748 400	1758 486	1760 565	1755 634	1708 668
4.5 tons**	330 CFM/ton	CFM Watts	1470 / 1599 247 / 304	1481 / 1521 319 / 337	1485 / 1357 449 / 382	1309 / 1165 355 / 294	1480 / 1272 505 / 391	380 CFM/ton	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 / 1455 505 / 434	1575 / 1455 505 / 434	1568 / 1373 563 / 444	400 CFM/ton	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	1664 / 1554 565 / 493	1793 / 1701 663 / 592	1655 / 1475 625 / 503	420 CFM/ton	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	1751 / 1653 630 / 558	1749 / 1749 637 / 637	1708 / 1576 666 / 567	440 CFM/ton	CFM Watts	1976 568	1973 655	1871 652	1765 643	1667 636

- † Factory Setting
  - \*\* Not an actual OD size
  - 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.

- If the air handler is applied in downflow or horizontal configurations, the airflow should not exceed 2000 CFM. Airflow above 2000 CFM could result in water blow-off.
  - All heating modes default to Constant CFM.
  - Cooling airflow values are with wet coil, no filter

**MINIMUM HEATER AIRFLOW CFM – HEATER MATRIX**

MODEL NO.	BAYEVAC04BK1 BAYEVAC04LG1 BAYEVAC05BK1 BAYEVAC05LG1	BAYEVAC08BK1 BAYEVAC08LG1	BAYEVAC10BK1 BAYEVAC10LG1	BAYEVAC10LG3	BAYEVBC15LG3	BAYEVBC15BK1	BAYEVBC20BK1	BAYEVCC25BK1
TAM7A0C48	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 / 1813

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.

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

TAM7BOC60 AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE														
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING	AIRFLOW POWER	EXTERNAL STATIC PRESSURE				
			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	CFM Watts	1316 / 1404 194 / 201	1328 / 1330 258 / 234	1328 / 1244 314 / 260	1320 / 1146 364 / 276	1308 / 1033 406 / 280	400 CFM/ton	CFM Watts	1404 205	1424 275	1426 337	1419 391	1410 440
	380 CFM/ton	CFM Watts	1349 / 1435 207 / 213	1360 / 1362 272 / 247	1359 / 1278 329 / 273	1352 / 1183 380 / 290	1338 / 1074 422 / 295	410 CFM/ton	CFM Watts	1437 218	1455 289	1457 351	1451 407	1441 456
	390 CFM/ton	CFM Watts	1381 / 1466 220 / 225	1391 / 1394 286 / 260	1390 / 1312 344 / 287	1383 / 1220 396 / 304	1370 / 1115 439 / 310	420 CFM/ton	CFM Watts	1467 230	1487 303	1489 367	1482 423	1474 474
	400 CFM/ton	CFM Watts	1413 / 1496 234 / 238	1422 / 1426 300 / 273	1421 / 1346 360 / 301	1415 / 1256 412 / 319	1402 / 1154 456 / 325	430 CFM/ton	CFM Watts	1500 244	1516 317	1519 382	1515 441	1505 491
4 tons	370 CFM/ton	CFM Watts	1485 / 1583 269 / 278	1493 / 1516 337 / 314	1493 / 1441 398 / 342	1486 / 1357 452 / 362	1475 / 1263 498 / 370	400 CFM/ton	CFM Watts	1586 285	1600 360	1604 428	1601 490	1592 543
	380 CFM/ton	CFM Watts	1521 / 1618 287 / 295	1529 / 1552 356 / 331	1528 / 1479 418 / 360	1522 / 1396 474 / 380	1511 / 1305 520 / 389	410 CFM/ton	CFM Watts	1622 303	1636 379	1640 449	1638 512	1629 566
	390 CFM/ton	CFM Watts	1557 / 1654 306 / 313	1564 / 1589 376 / 350	1564 / 1516 440 / 379	1559 / 1436 496 / 400	1548 / 1347 544 / 409	420 CFM/ton	CFM Watts	1659 322	1672 399	1677 471	1675 535	1667 591
	400 CFM/ton	CFM Watts	1593 / 1689 326 / 332	1600 / 1625 397 / 369	1600 / 1554 462 / 399	1595 / 1475 519 / 420	1585 / 1389 568 / 430	430 CFM/ton	CFM Watts	1695 342	1708 421	1713 493	1712 559	1705 616
4.5 tons ***+	370 + CFM/ton	CFM Watts	1652 / 1748 360 / 365	1659 / 1685 433 / 403	1660 / 1616 500 / 433	1655 / 1540 559 / 454	1646 / 1456 610 / 465	400 CFM/ton	CFM Watts	1769 385	1782 467	1789 543	1788 611	1783 671
	380 CFM/ton	CFM Watts	1694 / 1789 386 / 390	1701 / 1727 460 / 427	1701 / 1659 528 / 458	1697 / 1548 589 / 480	1688 / 1503 641 / 491	410 CFM/ton	CFM Watts	1811 411	1826 495	1831 572	1832 643	1827 704
	390 CFM/ton	CFM Watts	1736 / 1831 413 / 416	1742 / 1770 489 / 454	1744 / 1703 558 / 484	1740 / 1629 620 / 506	1732 / 1549 673 / 518	420 CFM/ton	CFM Watts	1854 439	1869 525	1875 604	1877 676	1872 739
	400 CFM/ton	CFM Watts	1778 / 1873 442 / 443	1784 / 1813 519 / 481	1786 / 1747 590 / 512	1783 / 1675 653 / 534	1776 / 1597 707 / 546	430 CFM/ton	CFM Watts	1898 468	1913 556	1919 637	1921 711	1918 777
5 tons	370 CFM/ton	CFM Watts	1826 / 1921 475 / 476	1833 / 1862 555 / 515	1835 / 1797 627 / 545	1832 / 1726 692 / 568	1826 / 1650 748 / 580	400 CFM/ton	CFM Watts	1963 515	1978 606	1985 689	1988 766	1985 833
	380 CFM/ton	CFM Watts	1875 / 1971 512 / 512	1882 / 1912 593 / 550	1884 / 1848 667 / 581	1882 / 1778 733 / 603	1876 / 1703 791 / 616	410 CFM/ton	CFM Watts	2014 554	2029 647	2037 733	2040 811	2038 880
	390 CFM/ton	CFM Watts	1924 / 2021 551 / 550	1932 / 1963 634 / 588	1935 / 1900 710 / 619	1933 / 1832 777 / 641	1927 / 1758 836 / 654	420 CFM/ton	CFM Watts	2066 595	2082 691	2090 779	2093 859	2090 928
	400 CFM/ton	CFM Watts	1975 / 2073 593 / 590	1983 / 2015 678 / 629	1986 / 1953 755 / 660	1985 / 1886 824 / 682	1979 / 1814 884 / 695	430 CFM/ton	CFM Watts	2120 640	2136 738	2143 828	2147 909	2143 980

- † Factory Setting
- \*\* Not an actual OD size
- 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.

- If the air handler is applied in downflow or horizontal configurations, the airflow should not exceed 2000 CFM. Airflow above 2000 CFM could result in water blow-off.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

#### MINIMUM HEATING AIRFLOW CFM – HEATER MATRIX

MODEL NO.	BAYEVAC04BK1 BAYEVAC04LG1 BAYEVAC05BK1 BAYEVAC05LG1	BAYEVAC08BK1 BAYEVAC08LG1	BAYEVAC10BK1 BAYEVAC10LG1	BAYEVAC10LG3	BAYEVBC15LG3	BAYEVBC15BK1	BAYEVBC20BK1	BAYEVCC25BK1
TAM7BOC60	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 (a) / 1813

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.

(a) Heater not qualified for 208V when installed in horizontal left position without Heat Pump

# HEATER ATTRIBUTE DATA

**TAM7A0A24H21SD, TAM7A0A24H21EA**

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	Amps	Circuit	kW	BTUH	Amps	Circuit	kW	BTUH	Amps	Circuit
No Heater	0	-	-	3.9 **	5	15	-	-	3.9 **	5	15	-	-
BAYEVAC04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25	20.0	30
BAYEVAC05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30	26200	32.0
BAYEVAC08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40	40.0	55
BAYEVAC10++1 <sup>(a)</sup>	1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50	32800	33
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30	32800	25

Note: \*\* Motor Amps

(a) Heater not qualified for 208V when installed in horizontal left position without Heat Pump

**TAM7A0B30H21SD, TAM7A0B30H21EA**

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	Amps	Circuit	kW	BTUH	Amps	Circuit	kW	BTUH	Amps	Circuit
No Heater	0	-	-	3.0 **	4	15	-	-	3.0 **	4	15	-	-
BAYEVAC04++1	1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	25	20.0	30
BAYEVAC05++1	1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25	26200	32.0
BAYEVAC08++1	1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40	40.0	55
BAYEVAC10++1	1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50	32800	33
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30	32800	25
BAYEVBC15LG3	1-3 PH	14.40	42000	34.6	47	50	10.80	36900	30.0	41	45	32800	33
BAYEVBC15BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50	32800	25
BAYEVBC15BK1 - Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25	32800	25

Note: \*\* Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps

## HEATER ATTRIBUTE DATA

**TAM7A0C36H31SD, TAM7A0C36H31EA**

Heater Model No.	240 Volt						208 Volt					
	Capacity		Heater Amps per Circuit	Minimum Circuit Overload Protection	Maximum Overload Protection	Capacity	Heater Amps per Circuit		Minimum Circuit Overload Protection	Maximum Overload Protection		
	No. of Circuits	kW					kW	BTUH				
No Heater	0	-	-	3.0 **	4	15	-	-	3.0 **	4	15	
BAYEVAC04++1	1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	25	
BAYEVAC05++1	1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25	
BAYEVAC08++1	1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40	
BAYEVAC10++1	1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50	
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30	
BAYEVBC15LG3	1-3 PH	14.40	42000	34.6	47	50	10.80	36900	30.0	41	45	
BAYEVBC15BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50	
BAYEVBC15BK1 - Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25	
BAYEVBC20BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50	
BAYEVBC20BK1 - Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45	

Note: \*\* Motor Amps

**TAM7A0C42H31SD, TAM7A0C42H31EA**

Heater Model No.	240 Volt						208 Volt					
	Capacity		Heater Amps per Circuit	Minimum Circuit Overload Protection	Maximum Overload Protection	Capacity	Heater Amps per Circuit		Minimum Circuit Overload Protection	Maximum Overload Protection		
	No. of Circuits	kW					kW	BTUH				
No Heater	0	-	-	3.9 **	5	15	-	-	3.9 **	5	15	
BAYEVAC04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25	
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	39	40	
BAYEVAC10++1	1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50	
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30	
BAYEVBC15LG3	1-3 PH	14.40	42000	34.6	48	50	10.80	36900	30.0	42	45	
BAYEVBC15BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50	
BAYEVBC15BK1 - Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25	
BAYEVBC20BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50	
BAYEVBC20BK1 - Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45	

Note: \*\* Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps

## HEATER ATTRIBUTE DATA

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**TAM7A0C48H41SD , TAM7A0C48H41EA**

Heater Model No.	240 Volt						208 Volt					
	No. of Circuits	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	kW	BTUH	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity
		kW	BTUH	Amps per Circuit	Ampacity	Protection			Amps per Circuit	Circuit Ampacity	Protection	
No Heater	0	-	-	4.2 **	5	15	-	-	4.2 **	5	5	15
BAYEVAC04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	23	25	
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 <sup>(a)</sup>	2	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50	
BAYEVBC20BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50	
BAYEVBC20BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50	
BAYEVCC25BK1 - Circuit 1 <sup>(a)</sup>	3	9.60	32800	40.0	50	50	7.20	24600	34.6	43	45	
BAYEVCC25BK1 - Circuit 2	3	9.60	32800	40.0	50	50	7.20	24600	34.6	43	45	
BAYEVCC25BK1 - Circuit 3	3	4.80	16400	20.0	25	25	3.60	12300	17.3	22	25	

Note: \*\* Motor Amps

**TAM7B0C60H51SC, TAM7B0C60H51EA**

Heater Model No.	240 Volt						208 Volt					
	No. of Circuits	Capacity kW	Capacity BTUH	Heater	Minimum	Maximum	Capacity kW	Capacity BTUH	Heater	Minimum	Maximum	Overload Protection
				Amps per Circuit	Circuit Ampacity	Overload Protection			Amps per Circuit	Circuit Ampacity	Overload Protection	
No Heater	0	-	-	5.5 **	7	15	-	-	5.5 **	7	15	
BAYEVAC04++1	1	3.84	13100	16.0	27	30	2.88	9800	13.8	24	25	
BAYEVAC05++1	1	4.80	16400	20.0	32	35	3.60	12300	17.3	29	30	
BAYEVAC08++1	1	7.68	26200	32.0	47	50	5.76	19700	27.7	41	45	
BAYEVAC10++1	1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50	
BAYEVAC10LG3	1-3 PH	9.60	32800	23.1	35	35	7.20	24600	20.0	31	35	
BAYEVBC15LG3	1-3 PH	14.40	42000	34.6	49	50	10.80	36900	30.0	44	45	
BAYEVBC15BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50	
BAYEVBC20BK1 - Circuit 2	2	4.80	16400	20.0	25	25	3.60	12300	17.3	22	25	
BAYEVBC20BK1 - Circuit 1 <sup>(a)</sup>	2	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50	
BAYEVCC25BK1 - Circuit 1 <sup>(a)</sup>	3	9.60	32800	40.0	50	50	7.20	24600	34.6	43	45	
BAYEVCC25BK1 - Circuit 2	3	9.60	32800	40.0	50	50	7.20	24600	34.6	43	45	
BAYEVCC25BK1 - Circuit 3	3	4.80	16400	20.0	25	25	3.60	12300	17.3	22	25	

Note: \*\* Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps

(b) Heater not qualified for 208V when installed in horizontal left position without Heat Pump

**Note:** See Product Data or Air Handler nameplate for approved combinations of Air Handlers and Heaters.

**Note:** Heater model numbers may have additional suffix digits.

# SUBCOOLING ADJUSTMENT

<b>System Matched with:</b>	<b>Indoor Unit Model No.</b>	<b>Outdoor Unit Model No.</b>	<b>Subcooling</b>
Single compressor, 2 Stage HP	TAM7A0B30H21SD TAM7A0B30H21EA	4A6H6024E/G, 4TWX6024E/G, 4A6H7024, 4TWX8024	9 °
	TAM7A0C36H21SD TAM7A0C36H21EA	4A6H6036E/G, 4TWX6036E/G, 4A6H7036, 4TWX8036	10 °
	TAM7A0C48H21SD TAM7A0C48H21EA	4A6H6048E/G, 4TWX6048E/G, 4A6H7048, 4TWX8048	8 °
	TAM7A0B30H21SD TAM7A0B30H21EA	4A7A6024E/G, 4TTX6024E/G, 4A7A7024, 4TTX8024	8 °
Single compressor, 2 Stage AC	TAM7A0C36H21SD TAM7A0C36H21EA	4A7A6036E/G, 4TTX6036E/G, 4A7A7036, 4TTX8036	8 °
	TAM7A0C48H21SD TAM7A0C48H21EA	4A7A6048E/G, 4TTX6048E/G, 4A7A7048, 4TTX8048	8 °
Two compressor, 2 Stage HP	TAM7A0B30H21SD TAM7A0B30H21EA	4A7A6024A, 4TWZ0024A	9 °
	TAM7A0C36H21SD TAM7A0C36H21EA	4A6Z0036A/B, 4TWZ0036A/B	10 °
	TAM7B0C60H151SD TAM7B0C60H151EA	4A6Z0060A, 4TWZ0060A	12 °
	TAM7A0B30H21SD TAM7A0B30H21EA	4A7Z0024A, 4TTZ0024A	9 °
Two compressor, 2 Stage AC	TAM7A0C48H21SD TAM7A0C48H21EA	4A7Z0036A/B, 4TTZ0036A/B	11 °
	TAM7B0C60H151SD TAM7B0C60H151EA	4A7Z0048A/B, 4TTZ0048A/B	13 °

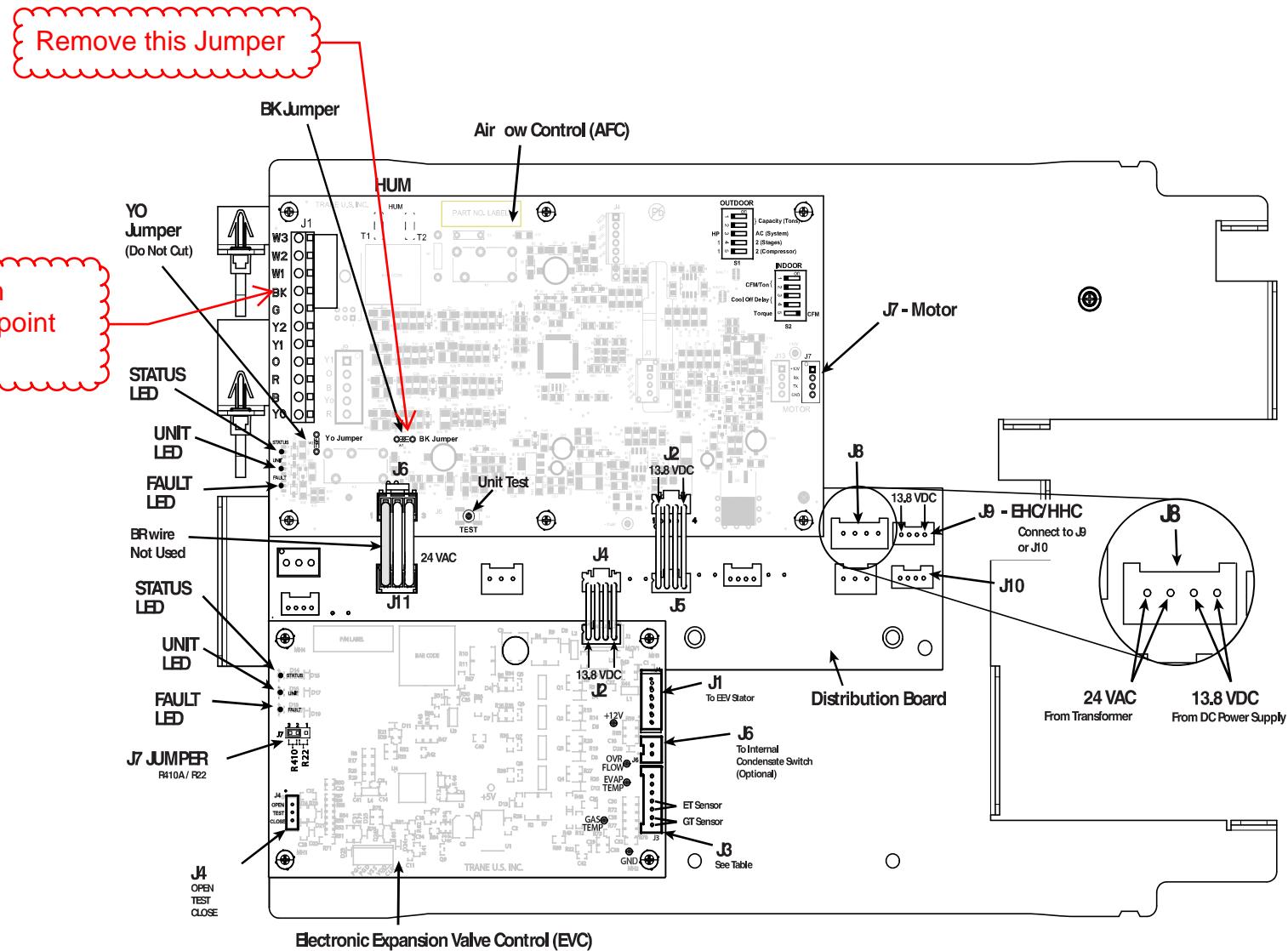
**NOTES:**

1. Variable Speed outdoor units must be charged per the outdoor unit instructions.
2. All other matches must be charged per the nameplate charging instructions.

<b>MODEL</b>	<b>DIM "A"</b>
TAM7A0B24H21SD TAM7A0B24H21EA TAM8C0A24V21CB TAM8C0A24V21EA	2-3/8
TAM7ABBB30H21SD TAM7A0B30H21EA TAM8C0B30V21CB TAM8C0B30V21EA	2-3/8
TAM7A0C36H31SD TAM7A0C36H31EA TAM8C0C36V31EA	2-3/8
TAM7A0C42H31SD TAM7A0C42H31EA TAM8C0C42V31CB TAM8C0C42V31EA	2-3/8
TAM7A0C48H41SD TAM7A0C48H41EA TAM8C0C48V41CB TAM8C0C48V41EA	2-3/8
TAM7B0C60H51SD TAM7B0C60H51EA TAM8C0C60V51CB TAM8C0C60V51EA	2-3/8

"A" is determined per chart  
Wheel is centered in Blower Housing

# Air Handler Control Panel – LED



# TAM7 LED Codes

Each TAM7 Control Board has three LEDs that provide visual feedback on the current operating state of the unit.

The Green LED displays current system status, the Blue LED reports on system communications and the Red LED reports on current and historical faults.

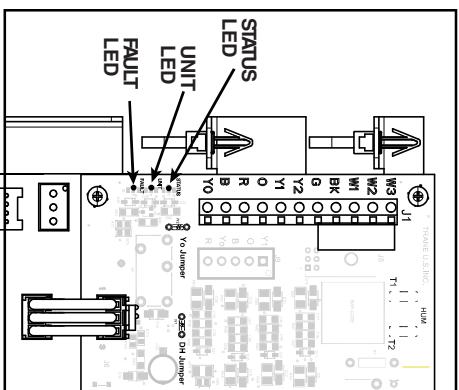


Click or Scan to see a video on reading the TAM7 Control Board LEDs

AFC STATUS LED (GREEN)	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 LED (RED)	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) (a) (b)
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)



Click or Scan to see a video on reading Airflow Control Board LEDs

AFC FAULT LED (RED)	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) (a) (b)
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)



Click or Scan to see a video on Troubleshooting Blower Communication Faults

(a) If Unit LED on AFC is flashing 2 times/second, /AFC is causing the error.

(b) Unit LED on suspect control will flash 2 times/second on the suspect control.

**Note:** All LED's will be off if power is not applied.

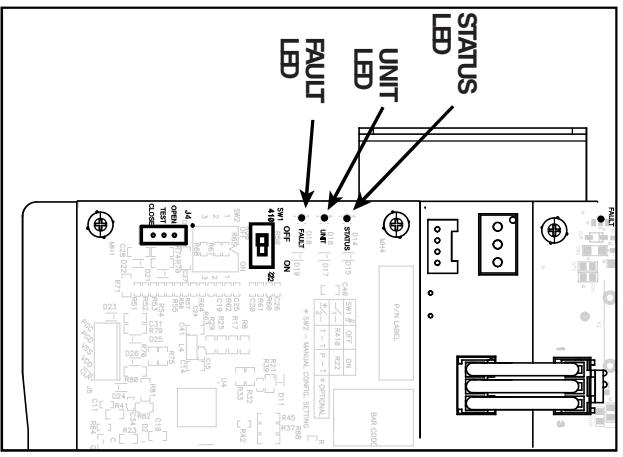
## TAM7 LED Codes

EVC STATUS LED (GREEN) (Non-Heat Pump Systems)	
Flash	Cool mode selected / No active call
1	Active call for 1st stage cooling
2	Active call for 2nd stage cooling (a)

EVC STATUS LED (GREEN) (Heat Pump Systems)	
Flash	Cool mode selected / No active call
1	Active call for 1st stage cooling or defrost
2	Active call for 2nd stage cooling or defrost (a)
3	Heat mode selected or Thermostat system switch off
4	Active call for 1st stage heating
5	Active call for 2nd stage heating (a)
6	No Power

- (a) Single stage OD systems will report 2nd stage flash codes.

EVC FAULT LED (RED)	UNIT LED (BLUE)	DESCRIPTION	POSSIBLE CAUSES
OFF	Standby	Normal (1 flash every 4 seconds)	
1	Flash	Communication Busy Error (2 flashes per second)	Faulty EEV motor / wiring harness.
2	Rapid	Communications cannot be establish with the AFC	Verify EEV motor & harness resistance. EEV motor drive, motor feedback, or 12V failure
SOLID ON			Sensor open / shorted, unplugged, wiring harness problem. Verify 5VDC output from control
Off		No Power	Sensor open / shorted, unplugged, wiring harness problem. Verify 5VDC output from control



- (a) EEV will try to go to a safe position, cooling attempt allowed  
 (b) K1 relay opens on EVC, YO disabled  
 (c) Cooling attempt allowed, 5 consecutive Y calls with same condition disables YO
- |   |  |
|---|--|
| 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 YO |

## TAM7 LED Codes

EHC STATUS LED (GREEN)	DESCRIPTION
1	1 heater relay energized or stand by (a) 2 heater relays energized
2	3 heater relays energized
3	4 heater relays energized
4	5 heater relays energized

**Note:** On a call for heat, STATUS LED will flash per the table above every 4 seconds  
On a call for heat, STATUS LED will flash per the table above every 4 seconds

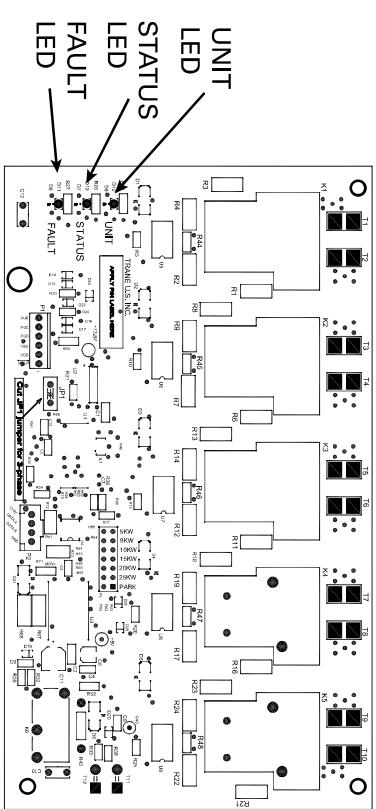
(a) Standby mode STATUS LED will flash 1 time per second

EHC FAULT LED (RED)	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 (a)
7	Low Airflow <sup>(b)</sup>
8	Blower interlock relay stuck open or stuck closed

(a) Confirm heater model and kw/jumper match

(b) Disregard this error on EHC controls prior to CNT06726 (3 relay) and CNT07015 (5 relay)

UNIT LED (BLUE)	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



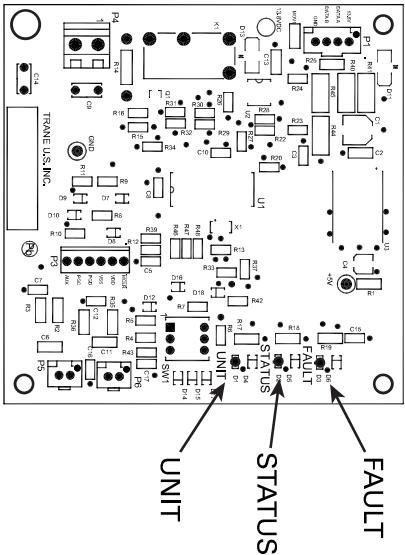
Click or Scan to see a video on EHC Fault Codes

## TAM7 LED Codes

HHC FAULT LED (RED)	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 (a)
6	Heat demand error

(a) Confirm heater model and dip switch configuration

HHC STATUS LED (GREEN)	DESCRIPTION
1 per second	Standby or idle
Rapid	Communication Busy Error (2 flashes per second)
SOLID ON	Communications cannot be established with the AFC
Off	No Power



Click or Scan to see a video on HHC Fault Codes

# Sensor Locations

Evaporator Temperature

Sensor (ET)

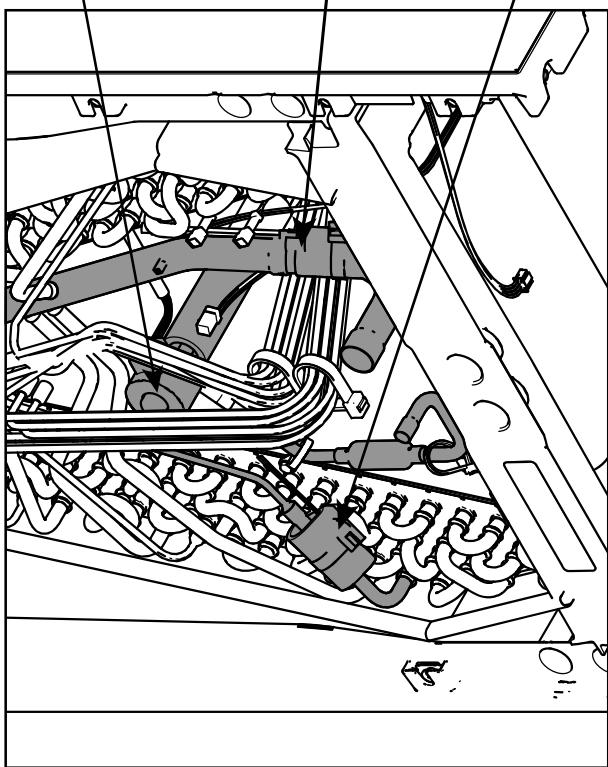
- located on 3/8" Aluminum distributor tube (orange wires)

Gas Temperature

Sensor (GT)

- located on copper section of manifold (black wires)

EEV Stepper Motor



# Stepper Motor Tables

## —For use with Low and High Superheat Troubleshooting

Table 1 — For use with FIG 1		
Common Terminal	to Terminal	Measurement
Gray	Orange	46 ohms
Gray	Red	46 ohms
Gray	Yellow	46 ohms
Gray	Black	46 ohms

FIG 1

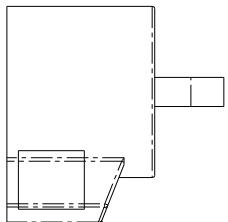
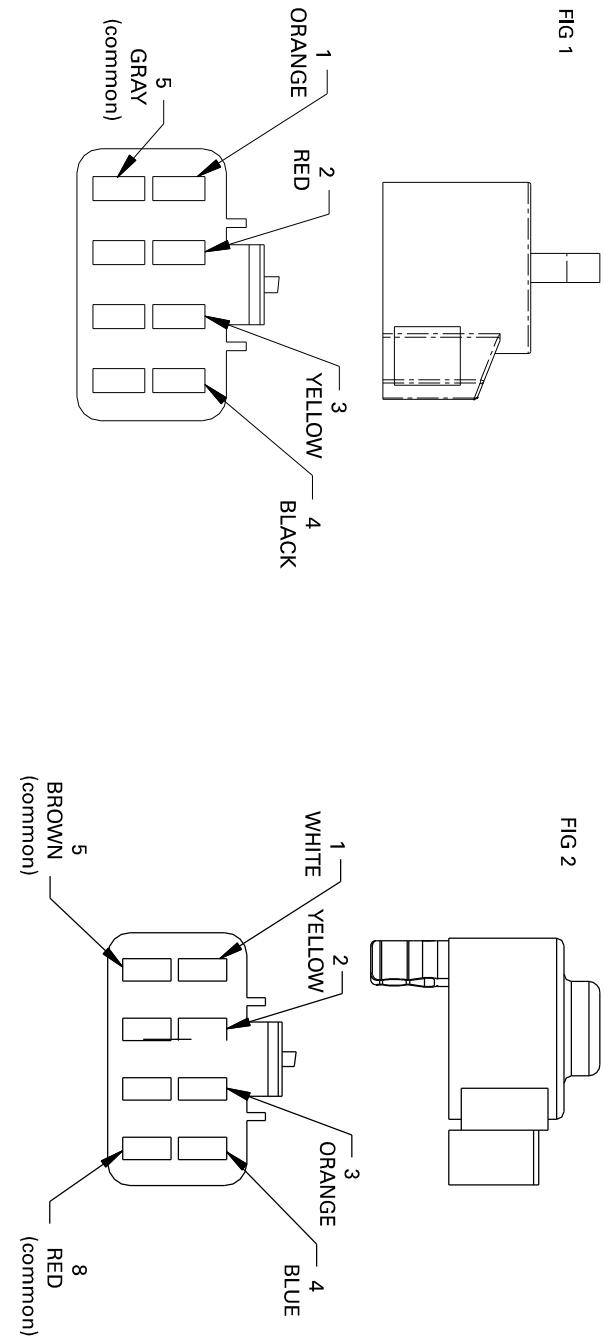


Table 2 — For use with FIG 2		
Common Terminal	to Terminal	Measurement
Brown	Blue	46 ohms
Brown	Yellow	46 ohms
Red	Orange	46 ohms
Red	White	46 ohms

FIG 2



# EEV TEST OPTIONS

## *Electronic Expansion Valve Test Option 1*

Access the Unit Test option through Display Assembly under the Control Menu.

## *Electronic Expansion Valve Test Option 2*

**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) Temperature probe should indicate superheat falling.
  - Valve is working.

**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.

**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. 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).

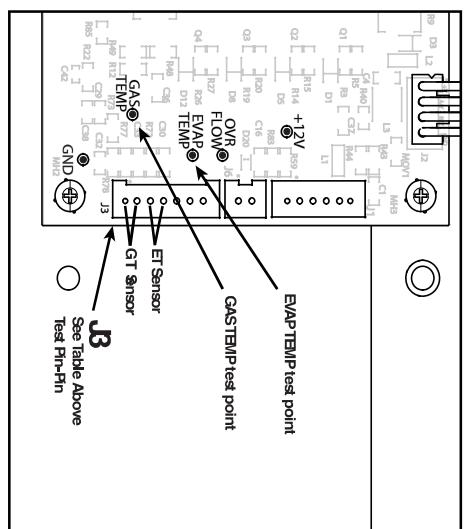
# EVC THERMAL RESISTANCE AND VOLTAGE TABLE

TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS)*	Volts DC at plug J3 EVAP TEMP (ET) Orange to Orange Black to Black	TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS)*	Volts DC at plug J3 EVAP TEMP (ET) Orange to Orange Black to Black	TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS)*	Volts DC at plug J3 EVAP TEMP (ET) Orange to Orange Black to Black
20	-6.7	45076	3.20	51	10.6	18896	2.16	94	34.4	6516	1.04
21	-6.1	43764	3.17	52	11.1	18401	2.12	96	35.6	6224	1.01
22	-5.6	42494	3.14	53	11.7	17921	2.09	98	36.7	5946	0.97
23	-5.0	41266	3.10	54	12.2	17455	2.06	100	37.8	5682	0.93
24	-4.4	40077	3.07	55	12.8	17002	2.03	102	38.9	5432	0.90
25	-3.9	38927	3.04	56	13.3	16563	2.00	104	40.0	5194	0.87
26	-3.3	37813	3.00	57	13.9	16137	1.97	106	41.1	4968	0.84
27	-2.8	36736	2.97	58	14.4	15723	1.94	108	42.2	4753	0.81
28	-2.2	35692	2.93	59	15.0	15320	1.91	110	43.3	4548	0.78
29	-1.7	34681	2.90	60	15.6	14930	1.88	112	44.4	4354	0.75
30	-1.1	33703	2.86	61	16.1	14550	1.85	114	45.6	4169	0.72
31	-0.6	32755	2.83	62	16.7	14182	1.82	116	46.7	3992	0.70
32	0.0	31838	2.80	63	17.2	13824	1.79	118	47.8	3825	0.67
33	0.6	30949	2.76	64	17.8	13476	1.76	120	48.9	3665	0.65
34	1.1	30087	2.73	65	18.3	13138	1.73	122	50.0	3513	0.62
35	1.7	29253	2.69	66	18.9	12810	1.70	124	51.1	3368	0.60
36	2.2	28445	2.66	67	19.4	12491	1.67	126	52.2	3230	0.58
37	2.8	27661	2.62	68	20.0	12181	1.65	128	53.3	3098	0.56
38	3.3	26902	2.59	69	20.6	11879	1.62	130	54.4	2972	0.54
39	3.9	26166	2.56	70	21.1	11586	1.59	132	55.6	2853	0.52
40	4.4	25452	2.52	72	22.2	11024	1.54	134	56.7	2738	0.50
41	5.0	24761	2.49	74	23.3	10492	1.49	136	57.8	2629	0.48
42	5.6	24090	2.45	76	24.4	9990	1.44	138	58.9	2525	0.46
43	6.1	23440	2.42	78	25.6	9515	1.39	140	60.0	2425	0.45
44	6.7	22810	2.39	80	26.7	9065	1.34	142	61.1	2330	0.43
45	7.2	22198	2.35	82	27.8	8639	1.29	144	62.2	2239	0.42
46	7.8	21605	2.32	84	28.9	8236	1.25	146	63.3	2153	0.40
47	8.3	21030	2.29	86	30.0	7855	1.20	148	64.4	2070	0.39
48	8.9	20472	2.25	88	31.1	7493	1.16	150	65.6	1990	0.37
49	9.4	19931	2.22	90	32.2	7150	1.12				
50	10.0	19405	2.19	92	33.3	6825	1.08				

**Values should be within +/- 5%**

## Test Methods

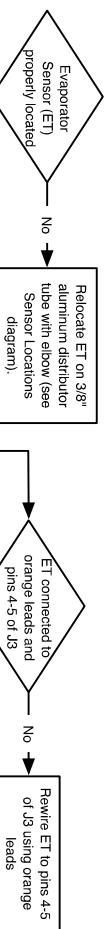
- When measuring DC voltage, use Evap Temp and Gas Temp points to GND (ground) test point.
- When measuring DC voltage, measure from ET Sensor pin to pin and GT Sensor pin to pin at J3 connector.
- When measuring resistance, remove J3 harness and measure ET and GT pin to pin



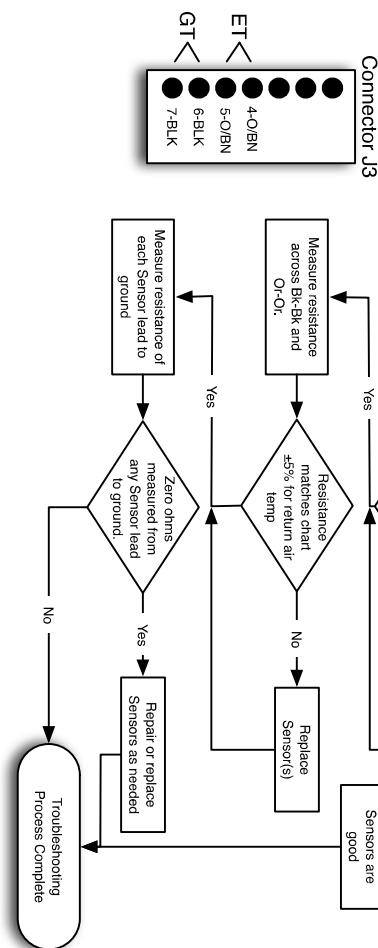
# Troubleshooting

## Sensor Check

Perform these steps to verify sensor placement and operation

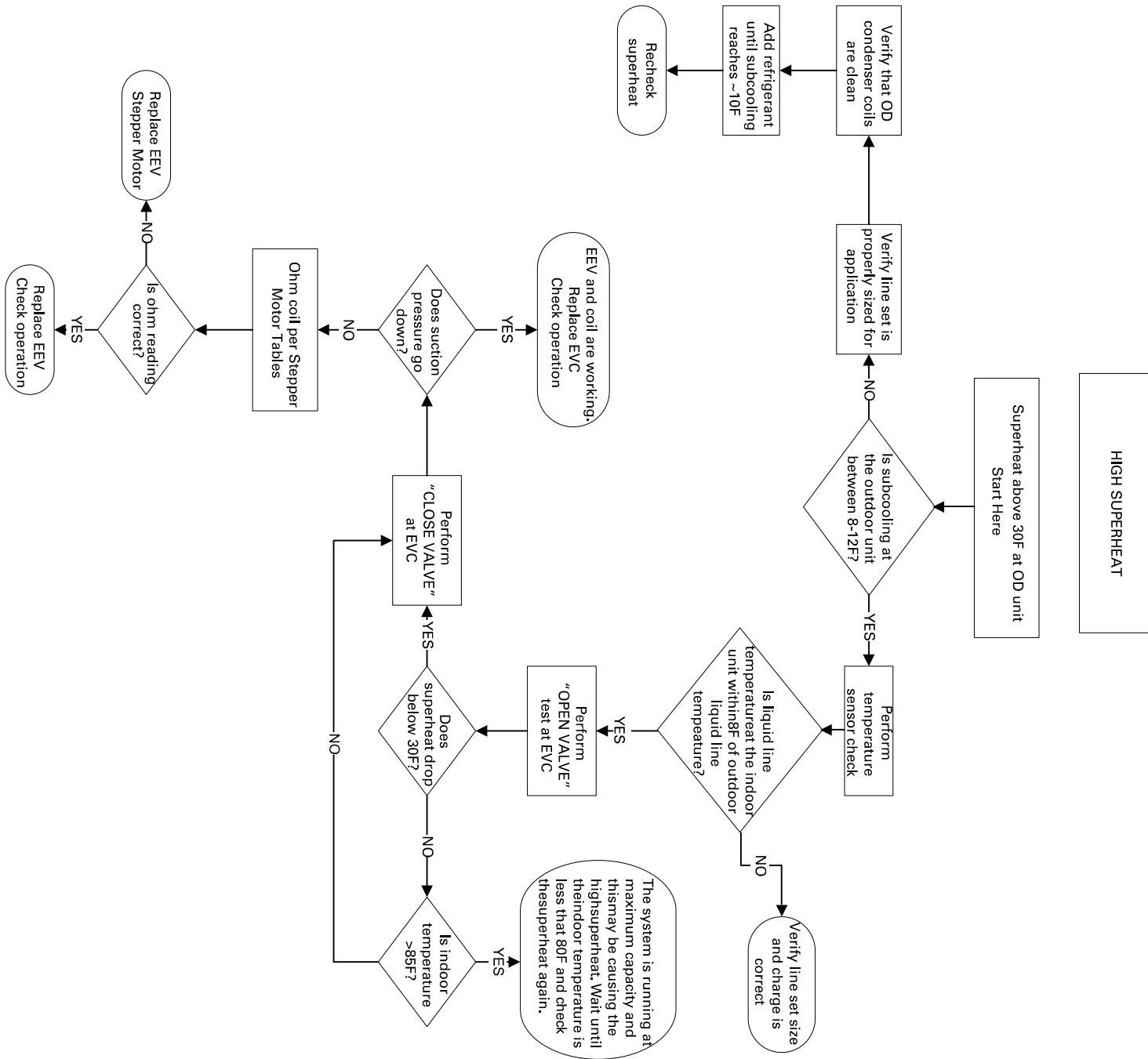


Click or Scan to see a video on Performing a Sensor Check



## **Troubleshooting**

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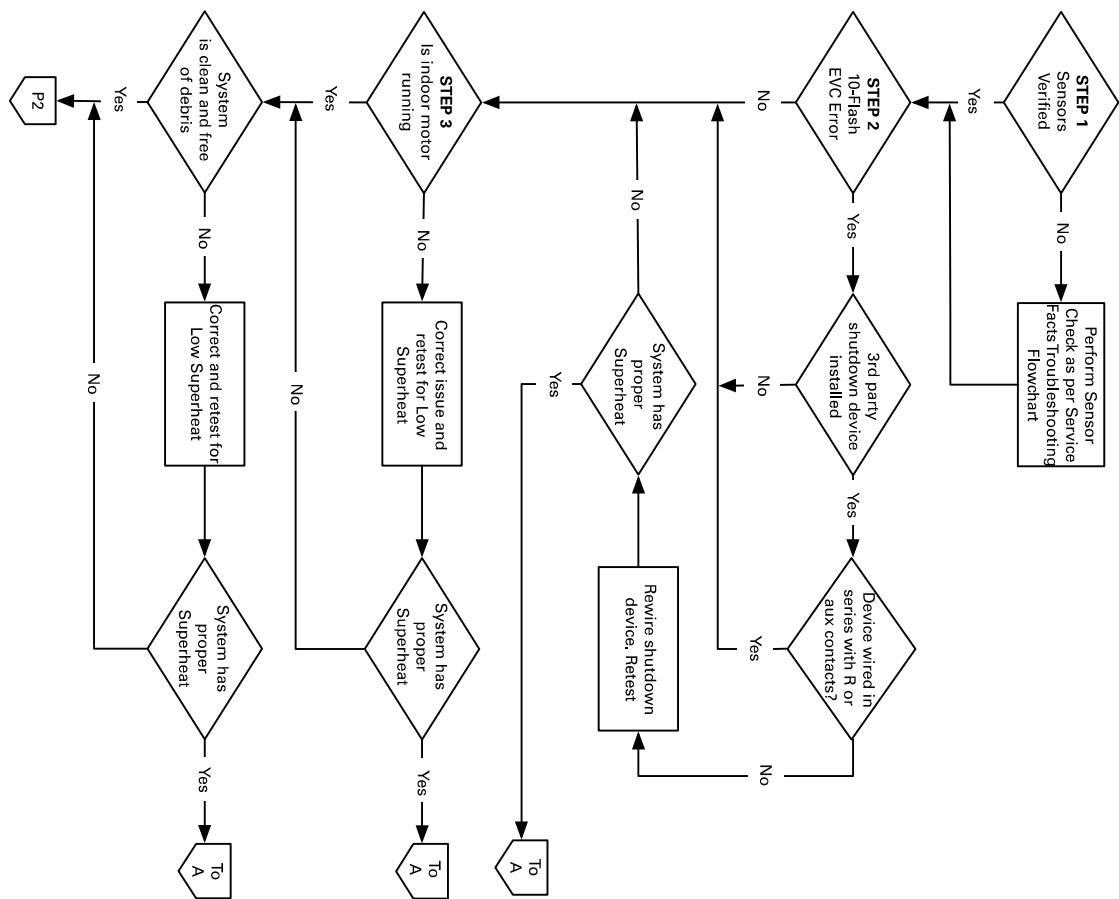


## Troubleshooting

**Troubleshooting Low Superheat**  
**Perform these steps if Superheat is less than 3°F**



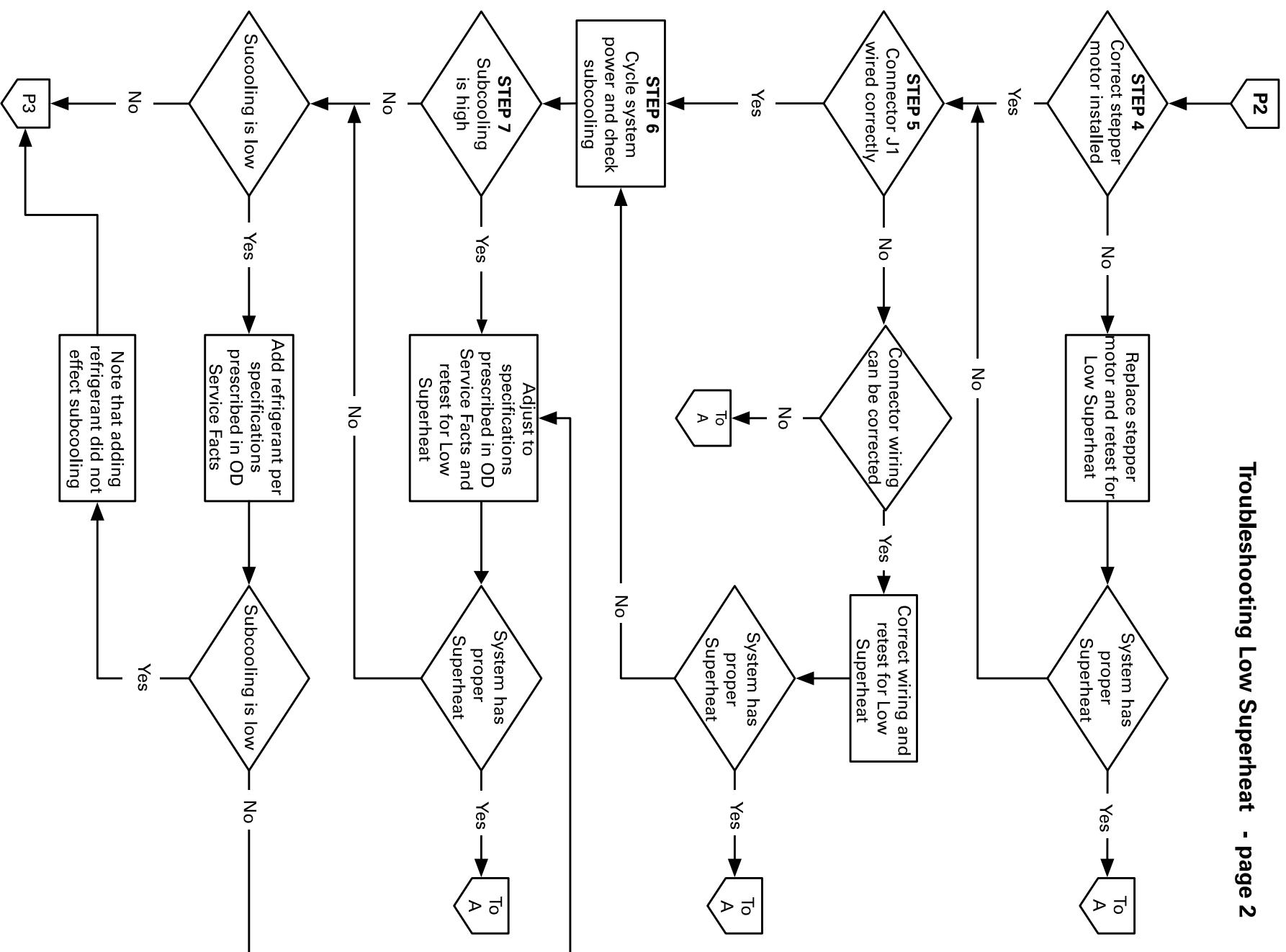
Click or Scan to see a video on  
Troubleshooting Low Superheat



## Troubleshooting

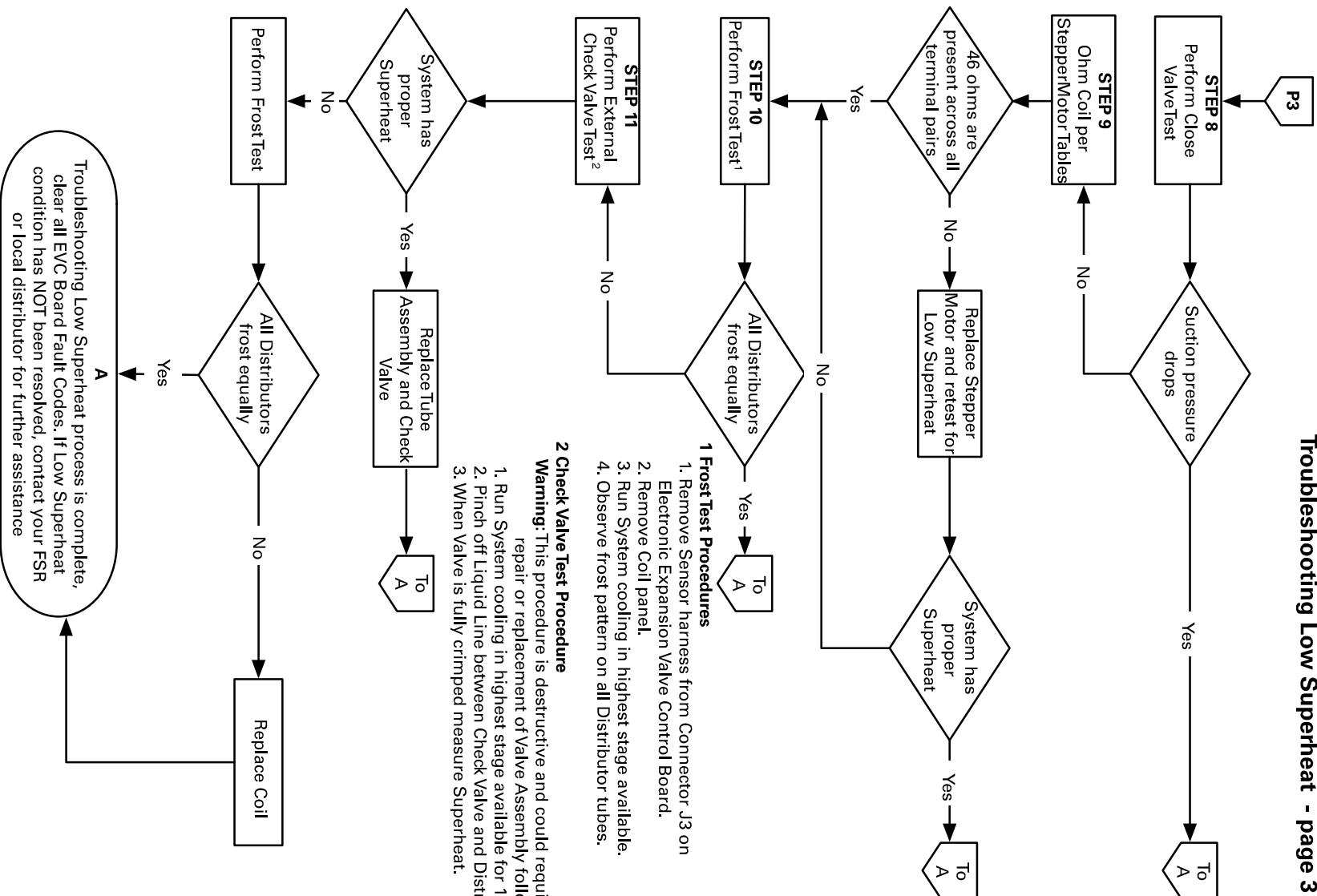
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### Troubleshooting Low Superheat - page 2



## Troubleshooting

### Troubleshooting Low Superheat - page 3



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