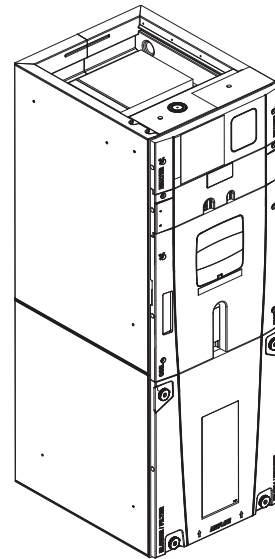




Installation, Operation, and Maintenance

Variable Speed Air Handlers Convertible 2 — 5 Ton

5TAMXB02AV21DA
5TAMXC03AV31DA
5TAMXD04AV31DA
5TAMXD05AV41DA
5TAMXD06AV41DA
5TAMXD07AV51DA



The Diagnostics Mobile App is available by scanning a QR code located inside this unit or by searching for the Link Diagnostics App in your App Store.

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

Note: For use with BAYEA series heaters ONLY.

Note: This unit can be used in Link Communicating mode or 24 volt mode.

Note: Need to use Diagnostics App to configure blower delays and accessories etc., in 24 volt mode.

⚠ 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

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.

Important: These instructions do not cover all variations in systems nor provide for every possible contingency to be met in connection with the installation. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your installing dealer or local distributor.

⚠ CAUTION

SAFETY HAZARD!

This air handler shall only be connected to an outdoor unit suitable for use with refrigerant R-454B.

⚠ 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.

⚠ CAUTION

GROUNDING REQUIRED!

Failure to inspect or use proper service tools may result in equipment damage or personal injury. Reconnect all grounding devices. All parts of this product that are capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

⚠ CAUTION

CORROSION HAZARD!

To prevent shortening its service life, the air handler should not be used during the finishing phases of construction. The low return air temperatures can lead to the formation of condensate. Condensate in the presence of chlorides and fluorides from paint, varnish, stains, adhesives, cleaning compounds, and cement creates a corrosive condition which may cause rapid deterioration of the cabinet and internal components.

⚠ WARNING

SAFETY HAZARD!

Children should be supervised to ensure that they do not play with the appliance.

⚠ WARNING

RISK OF FIRE!

Flammable refrigerant used. To be repaired only by trained service professional. Do not puncture refrigerant tubing.

Dispose of properly in accordance with federal or local regulations. Flammable refrigerant used.

⚠ 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 not 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.

⚠ WARNING

SAFETY HAZARD!

This appliance is not to be used by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

⚠ CAUTION

HAZARDOUS VAPORS!

Failure to follow this caution could result in property damage or personal injury. Equipment corrosion damage. To prevent shortening its service life, the air handler should not be used during the finishing phases of construction or remodeling. The low return air temperatures can lead to the formation of condensate. Condensate in the presence of chlorides and fluorides from paint, varnish, stains, adhesives, cleaning compounds, and cement creates a corrosive condition which may cause rapid deterioration of the cabinet and internal components.

⚠ CAUTION

COIL IS PRESSURIZED!

- Coil is pressurized with approximately 8–12 psi dry air and factory checked for leaks.
- Carefully release the pressure by removing the rubber plug on the liquid line.
- If no pressure is released, check for leaks.

⚠ WARNING

WARNING!

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Important: Installation of this unit shall be made in accordance with the National Electric Code, NFPA No. 90A and 90B, and any other local codes or utilities requirements.

Important: Air handlers do not require repositioning of the coil, drain pan, or refrigerant sensor for upflow applications. Horizontal left applications require sensor repositioning only. Horizontal right and downflow applications require coil, drain pan, and sensor repositioning. See coil conversion instructions section for details.

Important: The 5TAMX air handlers are only compatible with BAYEA** internal electric heaters.

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.

Note: Air handlers have been evaluated in accordance with the Code of Federal Regulations, Chapter XX, Part 3280 or the equivalent. "SUITABLE FOR MOBILE HOME USE."

Note: Condensation may occur on the surface of the air handler when installed in an unconditioned space. When units are installed in unconditioned spaces, verify that all electrical and refrigerant line penetrations on the air handler are sealed completely.

Note: The manufacturer recommends installing ONLY A.H.R.I approved, matched indoor and outdoor systems. Some of the benefits of installing approved matched indoor and outdoor split systems are maximum efficiency, optimum performance, and the best overall system reliability.

Note: There is no declared maximum altitude for operating the appliance.

Note: Charging of the refrigerating system shall be according to the instructions provided by the manufacturer of the outdoor unit.

Note: Representative illustrations only included in this document. Most illustrations display the upflow configuration.

Features

Table 1. Standard Features

<ul style="list-style-type: none">• MULTI-POSITION UPFLOW, DOWNFLOW, HORIZONTAL LEFT AND HORIZONTAL RIGHT• PAINTED FINISH ON GALVANIZED STEEL EXTERIOR WITH FULLY INSULATED CABINET THAT MEETS R4.2 VALUE• STURDY POLYCARBONATE DRAIN PANS<ul style="list-style-type: none">– These air handlers have factory installed drain pans and are shipped for upflow applications• 208/230 VAC OPERATION• VARIABLE-SPEED DIRECT DRIVE BLOWER• FACTORY INSTALLED R-454B THERMAL EXPANSION VALVE• ALL ALUMINUM COIL• BOTTOM RETURN• MEETS THE MINIMUM LEAKAGE REQUIREMENTS FOR THE FLORIDA AND CALIFORNIA BUILDING CODES

Table 2. Optional Accessories

<ul style="list-style-type: none">• 4,5,8,10,15,20, and 25 KW SINGLE PHASE ELECTRIC HEATERS<ul style="list-style-type: none">– Circuit breakers available on single phase 4, 5, 8, 10, 15, 20, and 25 KW heaters– Lugs available on single phase 4, 5, 8, and 10 KW heaters– Lugs available on three phase 10 and 15 KW heaters• SINGLE POINT POWER ENTRY KIT (for 15 and 20 KW heaters)• SUPPLY DUCT FLANGE KIT• DOWNFLOW SUB-BASE KITS - TAYBASE185, TAYBASE235, TAYBASE260• SLIM FIT FILTER BOX KIT - BAYSF1185AAA, BAYSF1235AAA, BAYSF1265AAA• Breaker Seal Kit - TEMBRKSEALKT01A• Downflow Condensate Management Kit - BAYTEMDFKT1A• CleanEffects Whole House Air Cleaners - EFD175DLAH000B, EFD215DLAH000B, EFD235DLAH000B• 120V Unit Conversion Kits - BAYAH120KT
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Information on Servicing

All replacement parts shall be in accordance with the manufacturer's specifications.

Prior to Beginning Work

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following shall be completed prior to conducting work on the system:

- Work shall be undertaken under a controlled procedure to minimize the risk of a flammable gas or vapor being present while the work is being performed.
- All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.
- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e., non-sparking, adequately sealed or intrinsically safe.
- If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.
- No person carrying out work in relation to a refrigerating system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.
- The following checks shall be applied to installations using flammable refrigerants:
 - marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;

- refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Repairs to Electrical Components

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment, so all parties are advised.

Initial safety checks shall include:

- that capacitors are discharged; this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

Detection of Flammable Refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection method is deemed acceptable for all refrigerant systems:

- Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall

be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Example of leak detection fluids is **bubble method**.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.

Removal and Evacuation

When breaking into the refrigerant circuit to make repairs - or for any other purpose - conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L);
- continuously flush or purge with inert gas when using flame to open circuit;
- and open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants.

This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

Charging Procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigerating system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

See installation instructions below for further details.

Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e., special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body

shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

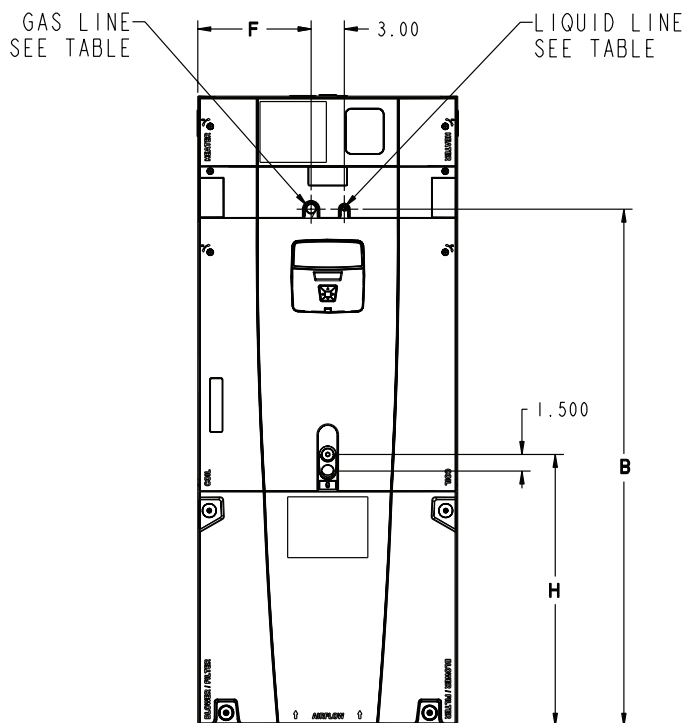
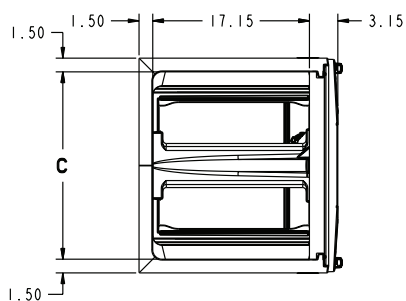
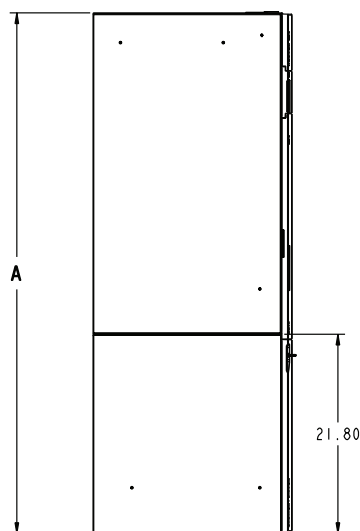
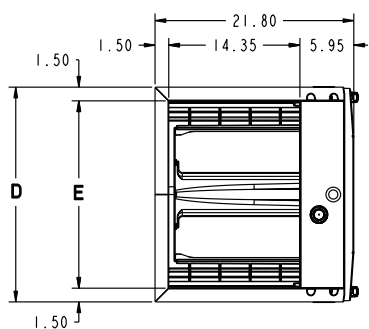
Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.

1. Become familiar with the equipment and its operation.
2. Isolate system electrically.
3. Before attempting the procedure, ensure that:
 - a. mechanical handling equipment is available, if required, for handling refrigerant cylinders;
 - b. all personal protective equipment is available and being used correctly;
 - c. the recovery process is supervised at all times by a competent person;
 - d. recovery equipment and cylinders conform to the appropriate standards.
4. Pump down refrigerant system, if possible.
5. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
6. Make sure that cylinder is situated on the scales before recovery takes place.
7. Start the recovery machine and operate in accordance with instructions.
8. Do not overfill cylinders (no more than 80 % volume liquid charge).
9. Do not exceed the maximum working pressure of the cylinder, even temporarily.
10. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
11. Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

Equipment shall be labelled stating that it has been decommissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerant, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

Outline Drawing



MINIMUM UNIT CLEARANCE TABLE	
	SERVICE CLEARANCE (RECOMMENDED)
SIDES	2"
FRONT	21"
BACK	0"
INLET DUCT	
OUTLET DUCT	

NOTE: THIS UNIT IS APPROVED FOR INSTALLATION CLEARANCES TO COMBUSTIBLE MATERIAL AS STATED ON THE UNIT RATING NAMEPLATE

Model Number	A	B	C	D	E	F	H	FLOW CONTROL	GAS LINE BRAZE	LIQ LINE BRAZE
5TAMXB02AV21DA	49.9	39.6	14.5	17.5	14.5	7.3	24.4	EEV	3/4	3/8
5TAMXC03AV31DA	55.7	45.5	18.4	21.3	18.4	9.2	24.8	EEV	3/4	3/8
5TAMXD04AV31DA	56.9	46.7	20.5	23.5	20.5	10.3	24.2	EEV	7/8	3/8
5TAMXD05AV41DA	56.9	46.7	20.5	23.5	20.5	10.3	24.5	EEV	7/8	3/8
5TAMXD06AV41DA	61.7	51.5	20.5	23.5	20.5	10.3	24.9	EEV	7/8	3/8
5TAMXD07AV51DA	61.7	51.5	20.5	23.5	20.5	10.3	24.9	EEV	7/8	3/8

REFRIGERANT LEAK DETECTION AND MITIGATION CONTROL BOARD LED DIAGNOSTIC INDICATORS

FOR MORE INFO	GREEN	AMBER
PASTE OR CODE HERE	ON	OFF
FLASHING SLOW	ON	OFF
3 FLASHES	ON	OFF
4 FLASHES	ON	OFF
5 FLASHES	ON	OFF
6 FLASHES	ON	OFF
PAST SENSOR ERROR	ON	OFF
IDLE OR OFF, 24V MODE	ON	OFF
STARTUP	ON	OFF
COMM MODE ACTIVE/NORMAL OPERATION	ON	OFF
CAN COMMUNICATION LOSS	ON	OFF
NO ACTIVE ALARM	ON	OFF
ACTIVE ALARM (REFRIGERANT LEAK, SENSOR COM ERROR, OR SENSOR ERROR)	ON	OFF
PAST REFRIGERANT DETECTED ALARM	ON	OFF
PAST SENSOR COMMUNICATION ERROR	ON	OFF

LEGEND

- 24 V } FACTORY WIRING
- 24 V } FIELD WIRING
- LINE V } FIELD WIRING
- LINE V } FIELD WIRING
- FACTORY WIRING
- MAGNETIC COIL
- EARTH GROUND
- JUNCTION
- WIRE NUT OR CONNECTOR
- TERMINAL
- FUSE
- TRANSFORMER
- POL. PLUS FEMALE HOUSING (MALE TERMINALS)
- POL. PLUS MALE HOUSING (FEMALE TERMINALS)
- BACK/BL
- COLOR OF WIRE
- COLOR OF MARKER

NOTES:

- FOR 208V OPERATION MOVE THE BLACK TRANSFORMER LEAD TO THE 208V CENTER TRANSFORMER TERMINAL.
- OPTIONAL OEM CONDENSATE KIT BAYCISKITOIA MAY OR MAY NOT BE INSTALLED.
- THE EEV MOTOR LEADS CAN BE EITHER 5 LEAD OR 6 LEAD VERSION SHOWN.
- SUPPLY AIR SENSOR TO BE INSTALLED IN SUPPLY DUCT, ABOVE HEATER ASSEMBLY.
- REFER TO INCLUDED LITERATURE FOR ALL WIRING CONNECTIONS.
- DO NOT REMOVE JUMPER.

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.

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Table 3. Link Communicating Low Voltage Hook-Up Diagrams

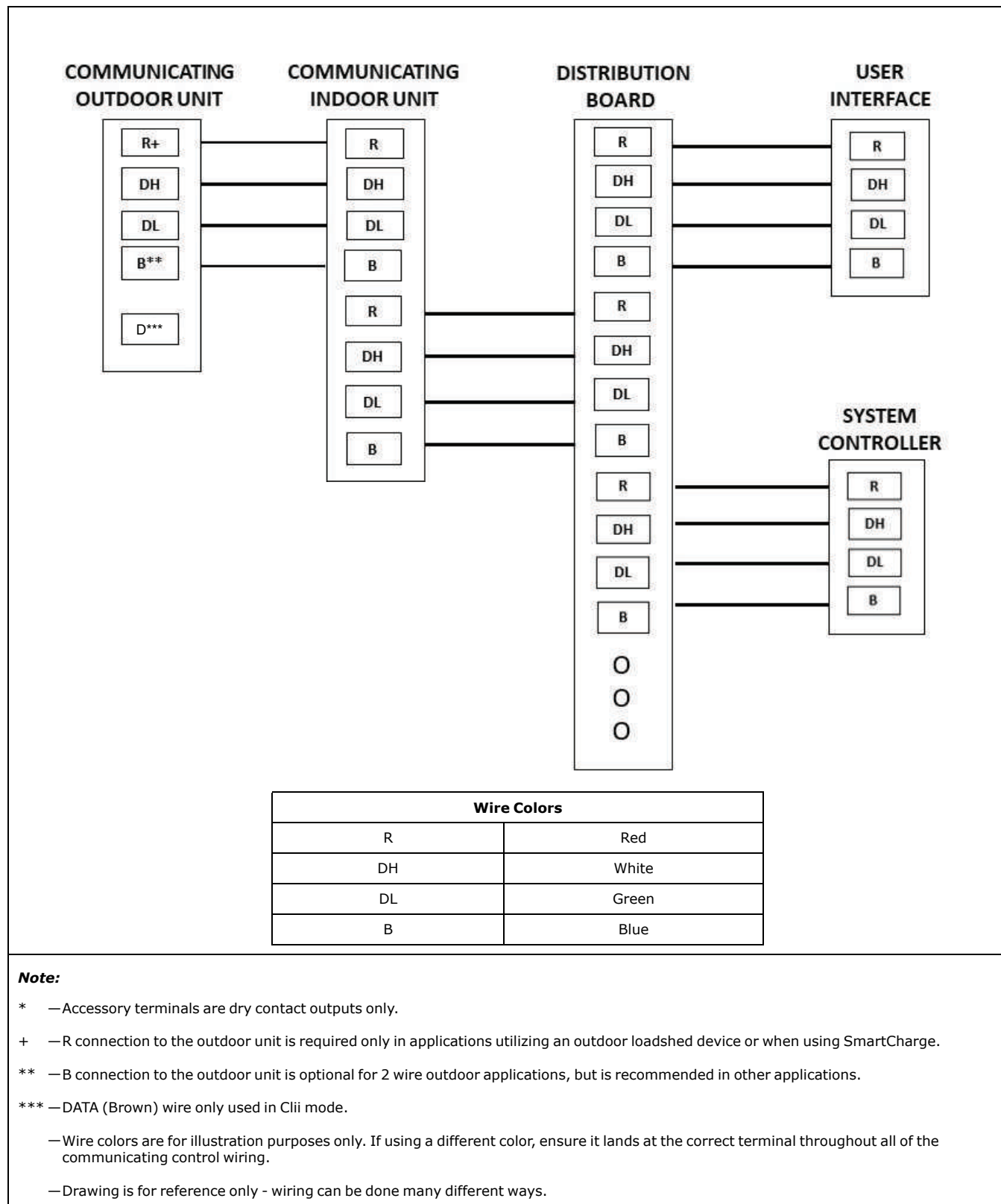
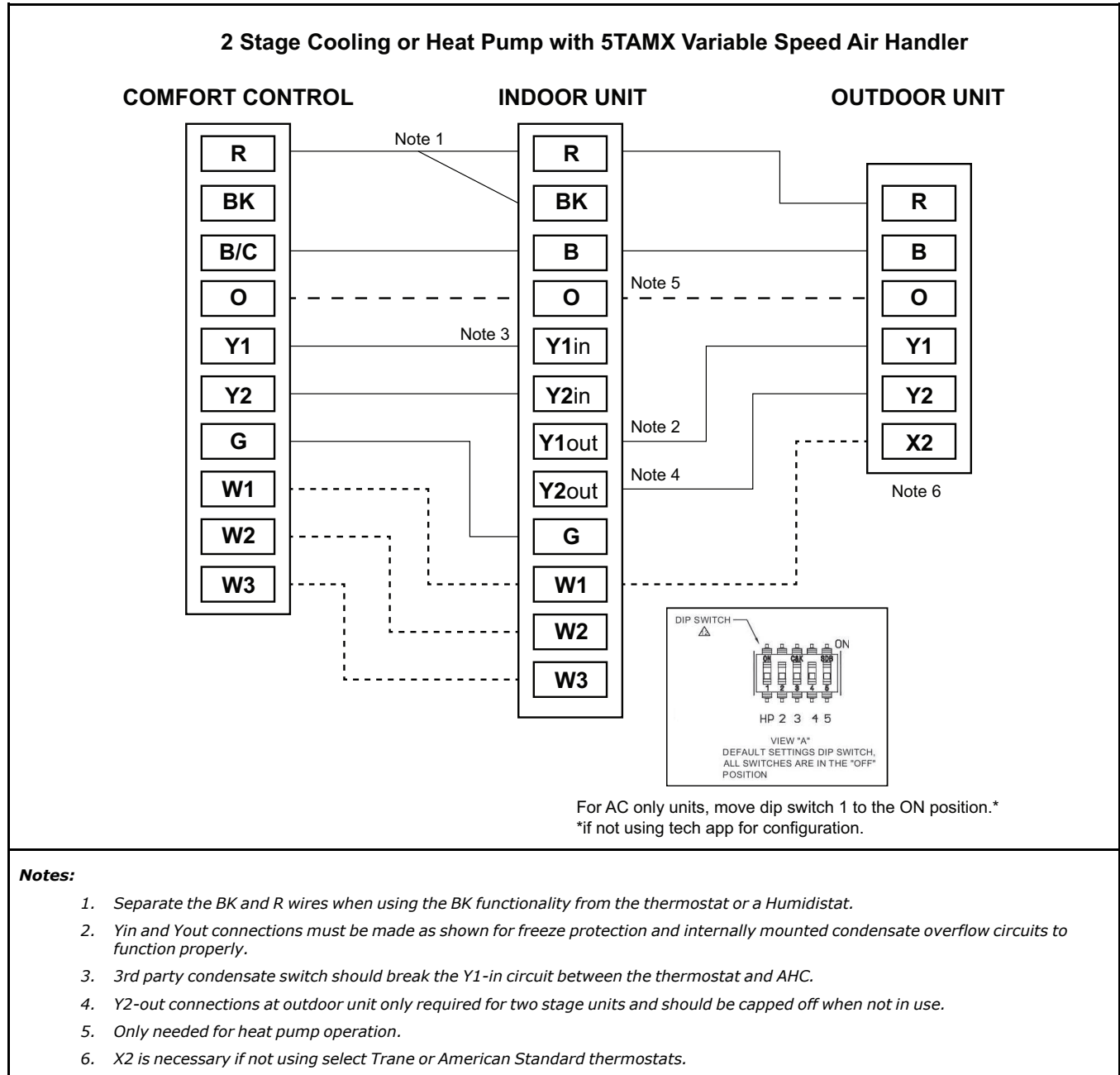
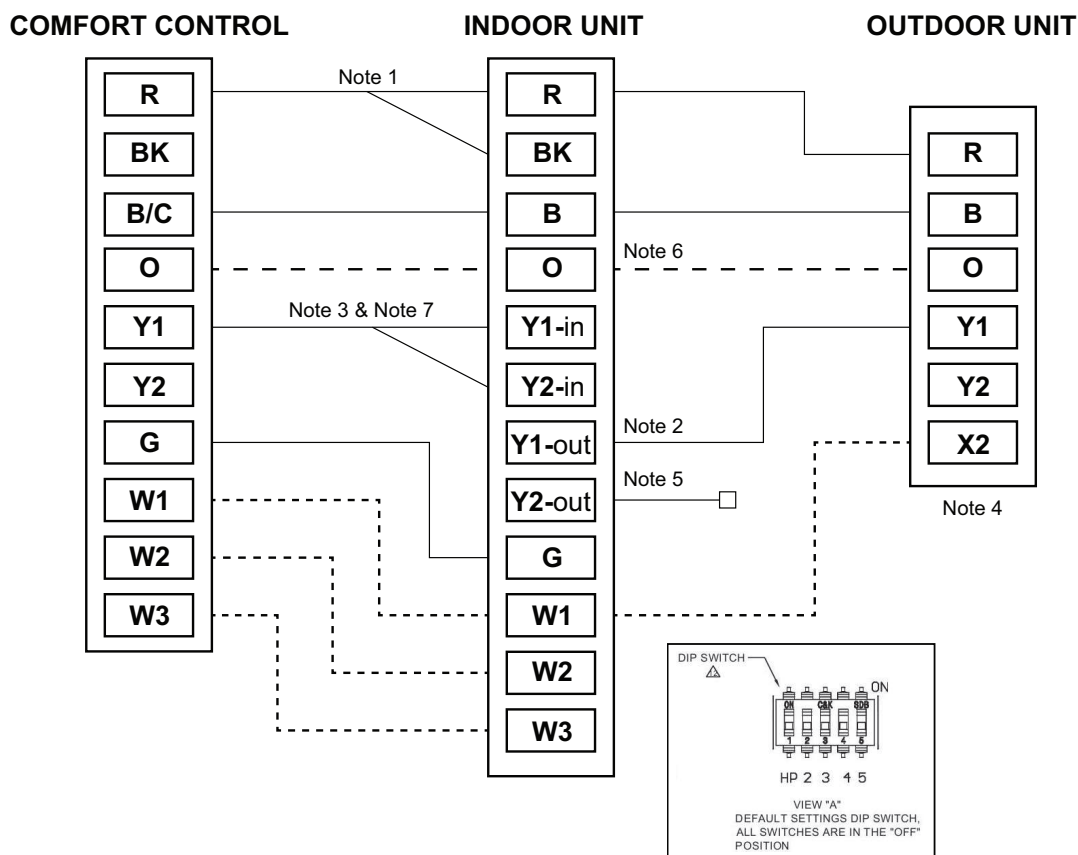


Table 4. 24 Volt Low Voltage Wiring



1 Stage Cooling or Heat Pump with 5TAMX Variable Speed Air Handler



For AC only units, move dip switch 1 to the ON position.*
*if not using tech app for configuration.

Notes:

1. Separate the BK and R wires when using the BK functionality from the thermostat or a Humidistat.
2. Y-in and Y-out connections must be made as shown for freeze protection and internally mounted condensate overflow circuits to function properly.
3. 3rd party condensate switch should break the Y1-in circuit between the thermostat and AHC.
4. X2 is necessary if not using select Trane or American Standard thermostats.
5. For single speed operation, use Y1-out and cap off Y2-out wire.
6. Only needed for heat pump operation.
7. For single stage outdoor operation, must connect Y1-in and Y2-in for full airflow.

5TAMX 24 Volt Wire Harness Colors

R	Red	Y2out	Orange/Red
B	Blue	G	Green
O	Orange	BK	Black
Y1in	Yellow	W1	White
Y2in	Yellow/Red	W2	White/Black
Y1out	Yellow/ Black	W3	White/Red

Refrigerant Leak Detection System

For all tables contained in this section of the manual, the refrigerant charge is the total system charge which is marked on the system according to the instructions provided by the manufacturer of the outdoor unit.

⚠ WARNING

RISK OF FIRE!

Flammable refrigerant used. To be repaired only by trained service professional. Do not puncture refrigerant tubing.

Dispose of properly in accordance with federal or local regulations. Flammable refrigerant used.

⚠ WARNING

LEAK DETECTION SYSTEM!

LEAK DETECTION SYSTEM installed. Unit must be powered except for service.

To ensure safety of the building occupants, the air handler is equipped with a refrigerant leak detection system. The system is comprised of a refrigerant sensor and a mitigation control board. The system automatically detects leaks in the indoor coil and initiates actions to mitigate the risk of ignition of the leaked refrigerant, including:

- Turning on the blower of the indoor unit to dilute leaked refrigerant;
- Fully opening any zoning dampers, when applicable;

- Turning off the compressor of the outdoor unit;
- De-energizing potential sources of ignition connected to the system;
- Energizing an audible alarm, if so equipped.

Examples of potential ignition sources that are de-energized include electrostatic air cleaners.

⚠ WARNING

RISK OF FIRE!

If installing the unit in any other orientation other than upflow, the refrigerant sensor must be relocated. See .

Refrigerant sensors for refrigerant leak detection systems shall only be replaced as specified by the manufacturer.

Minimum Conditioned Space

The installer must verify that the total space conditioned by the system is large enough to safely dilute any leaked refrigerant in the event of a refrigerant leak of the indoor coil.

The minimum space conditioned by the appliance shall be according to [Table 5, p. 14](#). The conditioned space includes any parts of the space connected via an air duct system. The altitude of installation is the altitude above sea level of the site where the equipment is installed.

Table 5. Minimum Space Conditioned by the Appliance

	Altitude (ft)								
	sea level- 2,000	2,001- 4,000	4,001- 6,000	6,001- 8,000	8,001- 10,000	10,001- 12,000	12,001- 14,000	14,001- 15,000	above 15,000
Charge (lb)	Minimum Conditioned Space (ft ²)								
4	63	66	70	74	79	85	91	94	98
5	79	83	88	93	99	106	113	118	122
6	95	100	105	112	119	127	136	141	147
7	110	116	123	130	138	148	159	165	171
8	126	133	140	149	158	169	181	188	196
9	142	149	158	167	178	190	204	212	220
10	158	166	175	186	198	211	227	235	245
11	173	183	193	205	218	232	249	259	269
12	189	199	211	223	237	254	272	282	294
13	205	216	228	242	257	275	295	306	318
14	221	232	246	260	277	296	318	330	343
15	236	249	263	279	297	317	340	353	367
16	252	266	281	298	317	338	363	377	392
17	268	282	298	316	336	359	386	400	416
18	284	299	316	335	356	380	408	424	440
19	299	315	333	353	376	402	431	447	465
20	315	332	351	372	396	423	454	471	489

Airflow Adjustment

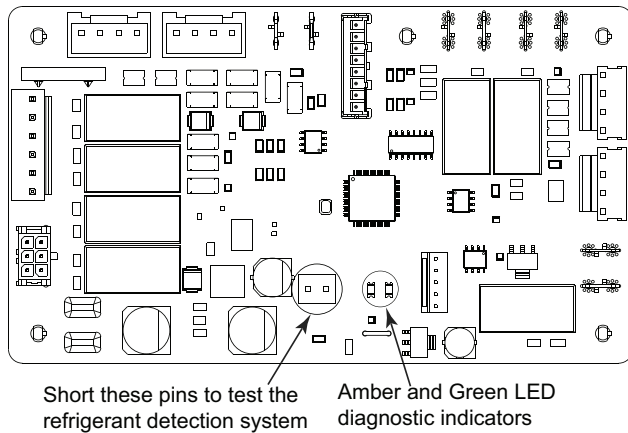
Note: All 5TAMX model air handlers have been factory configured to provide sufficient airflow to dilute leaked refrigerant.

Verification of Mitigation Actions

After installation, the installer must verify that the refrigerant leak detection system actuates all mitigating actions listed above.

The test can be initiated by shorting the two test pins on the header of the mitigation control board inside of the unit. The mitigating actions will continue for approximately 5 minutes. See [Figure 1, p. 15](#) below.

Figure 1. Refrigerant Leak Detection Mitigation Control Board



If any of the mitigating actions are not actuated by the system during the test, please check the following:

- All field wiring connections should be checked against the diagrams in the " " section of this manual.

- The diagnostic indicators on the mitigation control board should be checked against the diagnostic codes given in below.
- Scan the QR code below for more information on field troubleshooting of the refrigerant leak detection system.

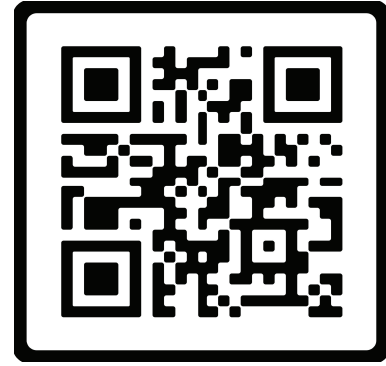


Table 6. MCB Diagnostic Code Table

Condition	Green LED
Idle or Off	Off
Startup	On
No Active Alarm	Slow Flash
Active Alarm (Refrigerant Leak, Sensor Communication Error, or Sensor Error)	3 Flash
Past Refrigerant Detected Alarm	4 Flash
Past Sensor Communication Error	5 Flash
Past Sensor Error	6 Flash

Note: Amber LED diagnostic indicator should always be "ON".

Installer Guide Notes

ALL Phases of this installation must comply with NATIONAL, STATE and LOCAL CODES!

Important: This Document is customer property and is to remain with this unit. Please return to service information upon completion of work

Important: These instructions do not cover all variations in systems nor provide for every possible contingency to be met in connection with the installation. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to your installing dealer.

Important: The 24 volt low voltage wire harness is shipped in the supplied document pack.

Note: The manufacturer recommends installing ONLY A.H.R.I. approved, matched indoor and outdoor systems. Some of the benefits of installing approved matched indoor and outdoor split systems are maximum efficiency, optimum performance, and the best overall system reliability.

Note: Condensation may occur on the surface of the air handler when installed in unconditioned spaces, verify that all electrical and refrigerant line penetrations on the air handler are sealed completely.

The 5TAMX air handlers will only use the following internal electric heaters:

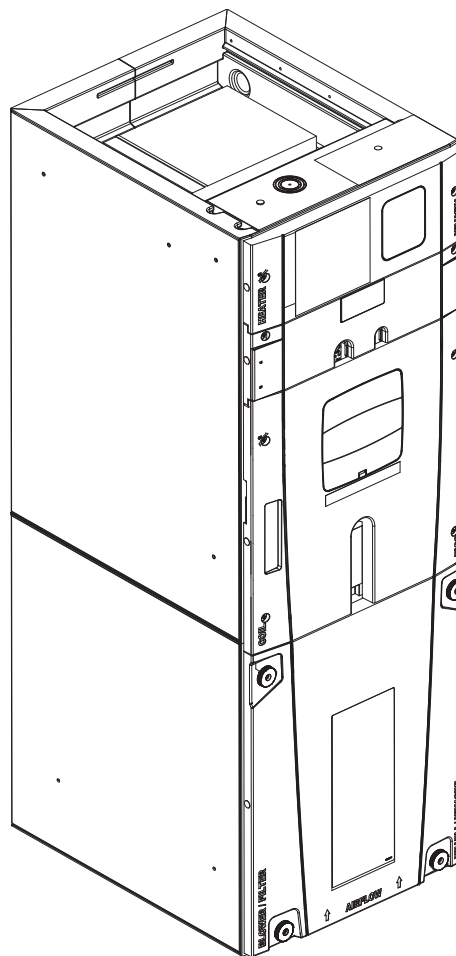
BAYEA(AC/13)04BK1	BAYEA(AC/13)10LG1
BAYEA(AC/13)04LG1	BAYEA(AC/13)10LG3
BAYEA(AC/13)05BK1	BAYEA(BC/23)15BK1
BAYEA(AC/13)05LG1	BAYEA(BC/23)15LG3
BAYEA(AC/13)08BK1	BAYEA(BC/23)20BK1
BAYEA(AC/13)08LG1	BAYEA(CC/33)25BK1
BAYEA(AC/13)10BK1	

Note: Duct heaters cannot be applied with this air handler.

Note: The heater size will be automatically configured by installing a resistor in the Electric heat harness located in the electric heat compartment and will be included with the BAYEA heater.

Note: There is no declared maximum altitude for operating the appliance.

Note: Charging of the refrigerating system shall be according to the instructions provided by the manufacturer of the outdoor unit.



Unit Design

Table 7. Cabinet Penetration

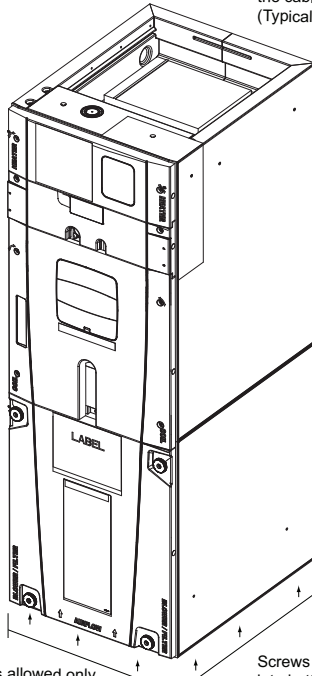
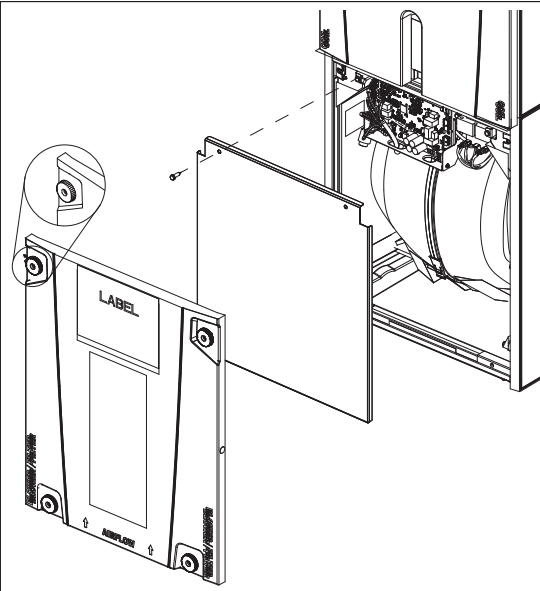
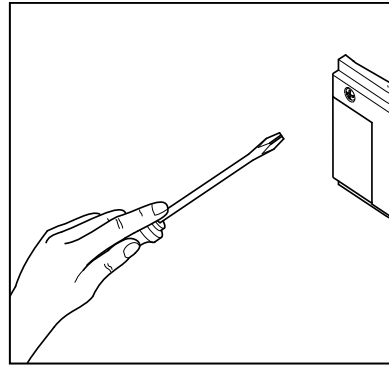
<p>Important: Due to the unique design of this unit, which allows the electrical wiring to be routed within the insulation, do not screw, cut, or otherwise puncture the unit cabinet in any location other than the ones illustrated.</p> <p>Important: Under no conditions should metal strapping be attached to the unit to be used as support mechanisms for carrying or suspension purposes.</p>	 <p>Screws for flange kit attachment are allowed along the interior of the cabinet (see arrows) (Typical all sides)</p> <p>Screws are allowed up to 3- 3/4" from the top of the cabinet (heater compartment). (Typical both sides)</p> <p>No penetrations allowed. (Typical all sides)</p> <p>Screws, saw cuts, and other penetrations are allowed in the blower section for installation of Side Return Kit. (Typical both sides)</p> <p>Screws allowed only in the first 3/4" of front bottom of unit (in cross member)</p> <p>Screws can be drilled into bottom of unit. (1/2" max. screw length) (Typical all sides)</p>
---	---

Table 8. Panel Removal

<p>The unit contains four (4) access panels: Blower/Filter, Coil, Line Set, and Heater.</p> <p>The Blower/Filter panel is removed using thumb screws.</p> <ol style="list-style-type: none"> 1. Turn thumb screws on Blower/Filter panel. 2. Pull top of panel out, away from cabinet. 3. Lift panel up out of channel. 4. Set aside. <p>The Block off plate is removed with a 5/16" nut driver.</p> <ol style="list-style-type: none"> 1. Remove the two 5/16" screws at the top of the block off plate. 2. Pull top of panel out, away from cabinet. 3. Lift panel up and off mounting bosses at the bottom. 4. Set aside. 	
--	--

The Coil, Line Set, and Heater panels are removed using Phillips head screws.

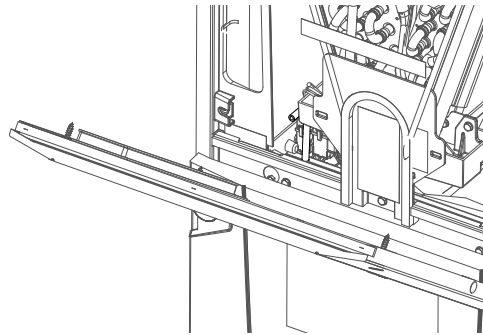
Removal requires #3 Size Phillips



Coil and Heater panels must be removed prior to removing the Line Set panel.

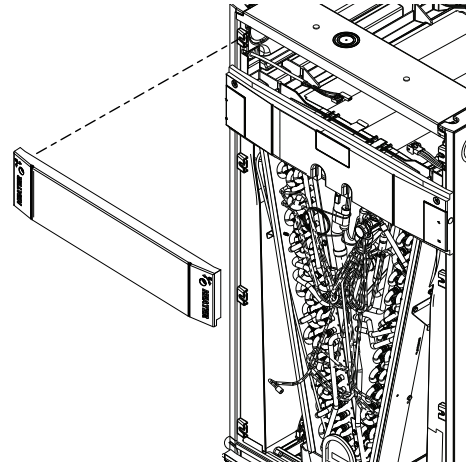
To remove Coil Panel:

1. Turn screws on Coil panel.
2. Rotate bottom of panel away from cabinet.
3. Remove panel from channel.
4. Set aside.



To remove Heater Panel:

1. Turn screws on Heater panel.
2. Pull panel straight out, away from cabinet.
3. Set aside.

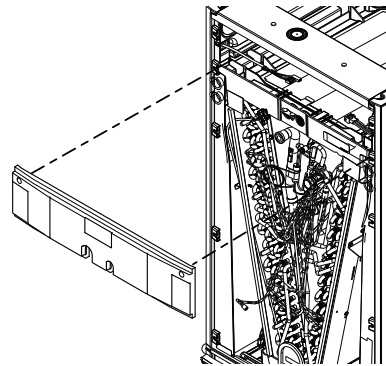


Removal of the Line Set panel is required for all refrigerant line brazing and some condensate line assembly depending on your orientation.

To remove Line Set panel:

1. Remove both Heater and Coil panels.
2. Turn screws on Line Set panel.
3. Pull panel straight out, away from cabinet.
4. Set aside.

Note: After replacing all panels, loosen the Line Set panel screws approximately 1/4 — 1/2 turn. This will improve the seal between the Heater Panel and Line Set panel.



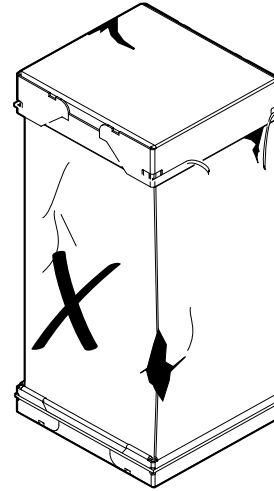
Unit Install Preparation

1. Check for damage and report promptly to the carrier any damage found to the unit.

Note: If the unit must be transported in a horizontal position, it must be laid on its back (marked "REAR" on carton).

Note: After unit is removed from the carton, verify coil is pressurized. Carefully remove the liquid line plug. If no pressure is released, check for leaks.

Note: Remove the cardboard from the bottom of the blower. Cut the tie wrap and remove the foam shipping block located at the motor.



Optional Accessories

Accessory Number	Description	Fits Cabinet Size
BAYEA(AC/13)04BK1	Electric Heater, 4kW, Breaker, 24V Control, 1 Ph	17.5" to 23.5"
BAYEA(AC/13)04LG1	Electric Heater, 4kW, Lugs, 24VControl, 1 Ph	17.5" to 23.5"
BAYEA(AC/13)05BK1	Electric Heater, 5kW, Breaker, 24V Control, 1 Ph	17.5" to 23.5"
BAYEA(AC/13)05LG1	Electric Heater, 5kW, Lugs, 24VControl, 1 Ph	17.5" to 23.5"
BAYEA(AC/13)08BK1	Electric Heater, 8kW, Breaker, 24V Control, 1 Ph	17.5" to 23.5"
BAYEA(AC/13)08LG1	Electric Heater, 8kW, Lugs, 24VControl, 1 Ph	17.5" to 23.5"
BAYEA(AC/13)10BK1	Electric Heater, 10kW, Breaker, 24V Control, 1 Ph	17.5" to 23.5"
BAYEA(AC/13)10LG1	Electric Heater, 10kW, Lugs, 24VControl, 1 Ph	17.5" to 23.5"
BAYEA(BC/23)15BK1	Electric Heater, 15kW, Breaker, 24V Control, 1 Ph	21.0" to 23.5"
BAYEA(BC/23)20BK1	Electric Heater, 20kW, Breaker, 24VControl, 1 Ph	23.5"
BAYEA(CC/33)25BK1	Electric Heater, 25kW, Breaker, 24V Control, 1 Ph	23.5"
BAYEA(AC/13)10LG3	Electric Heater, 10kW, Lugs, 24VControl, 3 Ph	17.5" to 23.5"
BAYEA(BC/23)15LG3	Electric Heater, 15kW, Lugs, 24V Control, 3 Ph	21.0" to 23.5"
BAYSUPFLGAA	Supply Duct Flange 1	17.5"
BAYSUPFLGBA	Supply Duct Flange 2	21.0"
BAYSUPFLGCA	Supply Duct Flange 3	23.5"
BAYRETFLGAA	Return Duct Flange 1	17.5"
BAYRETFLGBA	Return Duct Flange 2	21.0"
BAYRETFLGCA	Return Duct Flange 3	23.5"
BAYSRKIT100A	Side Return Kit	17.5" to 23.5"
BAYFLR1620A	High Velocity Filter Kit, 16" x 20" x 1" (10 filters)	17.5"
BAYFLR2020A	High Velocity Filter Kit, 20" x 20" x 1" (10 filters)	21.0"
BAYFLR2220A	High Velocity Filter Kit, 22" x 20" x 1" (10 filters)	23.5"
TASB175SB (a) (b)	Plenum Stand with integrated sound baffle 1	17.5"
TASB215SB	Plenum Stand with integrated sound baffle 2	21.0"
TASB235SB	Plenum Stand with integrated sound baffle 3	23.5"
MITISRKIT01A	Side Return Kit with 16" x 20" Filter	17.5" to 23.5"
BAYFRKIT175	Front Return Kit for 17.5" Cabinet	17.5"
BAYFRKIT210	Front Return Kit for 21.0" Cabinet	21.0"
BAYFRKIT235	Front Return Kit for 23.5" Cabinet	23.5"
TAYBASETAMA	Downflow Sub-Base Kit	17.5" to 23.5"
BAYBAFKT175A (c)	Sound Baffle Kit for 17.5" Cabinet	17.5"
BAYBAFKT215A	Sound Baffle Kit for 21.0" Cabinet	21.0"
BAYBAFKT235A	Sound Baffle Kit for 23.5" Cabinet	23.5"
TASSBK175 (d) (e)	Sound Baffle Kit for 17.5" Cabinet	17.5"
TASSBK210	Sound Baffle Kit for 21.0" Cabinet	21.0"
TASSBK235	Sound Baffle Kit for 23.5" Cabinet	23.5"
BAYICSKIT01A	Internal Condensate Switch Kit	17.5" to 23.5"
BAYHHKIT001A	Horizontal Hanger Kit	17.5" to 23.5"
BAYUVCLK001A	UV Lights	17.5" to 23.5"
BAYLVKIT100A	Low Voltage Conduit Entry Kit	17.5" to 23.5"
BAYSPEKT200A	Single Power Entry Kit	17.5" to 23.5"
BAYWAAA05SC1AA	Hydronic Coil — 50,000 BTUH — Slide-in	17.5" to 17.5"
BAYWABB07SC1AA	Hydronic Coil — 70,000 BTUH — Slide-in	21.0" to 21.0"
BAYWACC08SC1AA	Hydronic Coil — 80,000 BTUH — Slide-in	23.5" to 23.5"
BAYWACC11SC1AA	Hydronic Coil — 100,000 BTUH — Add on	23.5" to 23.5"
BAYWACNTKT05	Relay Kit for use with BAYWAAA05SC1A	17.5"
BAYWACNTKT07	Relay Kit for use with BAYWABB07SC1A	21.0"
BAYWACNTKT08	Relay Kit for use with BAYWACC08SC1A	23.5"
BAYWACNTKT11	Relay Kit for use with BAYWACC11SC1A	23.5"
BAYINSKT175A	Solcoustic® Liner Kit for 17.5" cabinet	17.5"
BAYINSKT215A	Solcoustic® Liner Kit for 21.5" cabinet	21.0"
BAYINSKT235A	Solcoustic® Liner Kit for 23.5" cabinet	23.5"
BAYCNDPIP01A	3/4" PVC Threaded Pipe Kit foam Seal (10 per box)	17.5" to 23.5"
BAYSENSC360	Supply Air Temperature Sensor	17.5" to 23.5"

(a) Contact your distributor for information.

(b) In open air applications, the plenum stand with sound baffle provides sound reduction.

(c) Mounts inside air handler filter channel.

(d) In return plenum applications, use TASSBK for sound reduction.

(e) Mounts to TASB original plenum stand without integrated baffle.

Optional Cabinet Disassembly

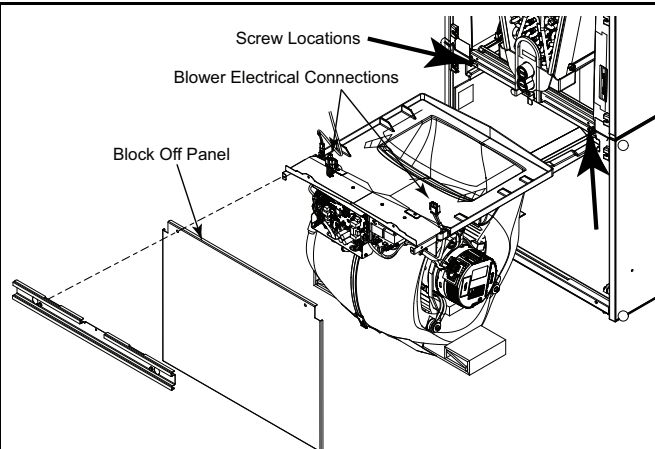
Note: If the unit must be transported in a horizontal position, it must be laid on its back (marked "REAR" on carton).

Note: To reassemble cabinet, follow the steps in reverse order. Ensure electrical connections are secure and the plug clips are engaged.

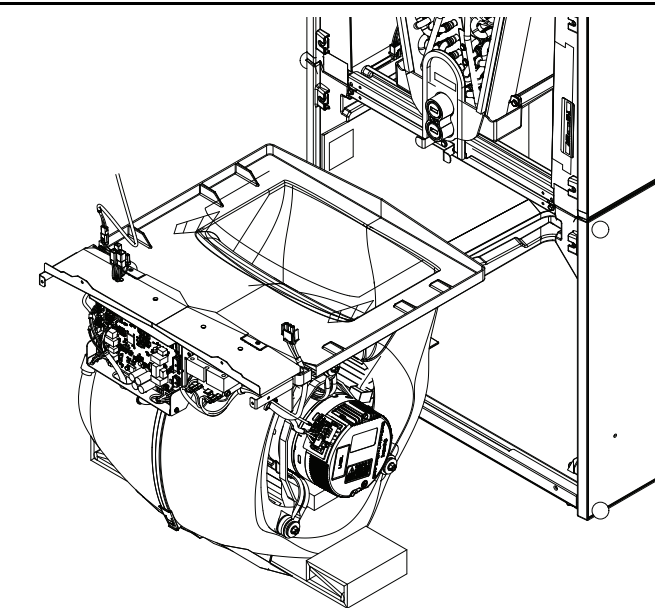
1. Remove all four front panels.
2. If applicable, remove the two screws on the seal bar and pull the seal bar straight out.
3. Remove the two screws on the block off panel and pull the panel straight out.
4. Disconnect all wiring connections routed to the blower assembly.

Note: Remove the cardboard from the bottom of the blower. Cut the tie wrap and remove the foam block located at the motor.

If system is installed prior in the horizontal position, remove the refrigerant sensor and clip before sliding blower out. See section **Horizontal Sensor Relocation** on page 28.



5. Slide Blower assembly out of unit using built-in blower support channels and set aside.

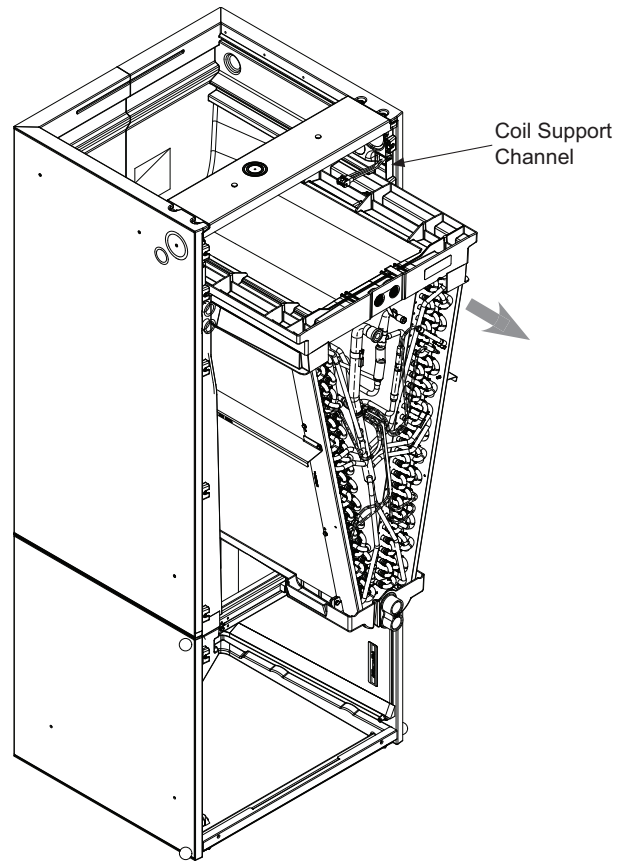


6. Disconnect wires to the EEV motor and sensors. Cut the wire ties on those wire harnesses if necessary and replace after re-installing.

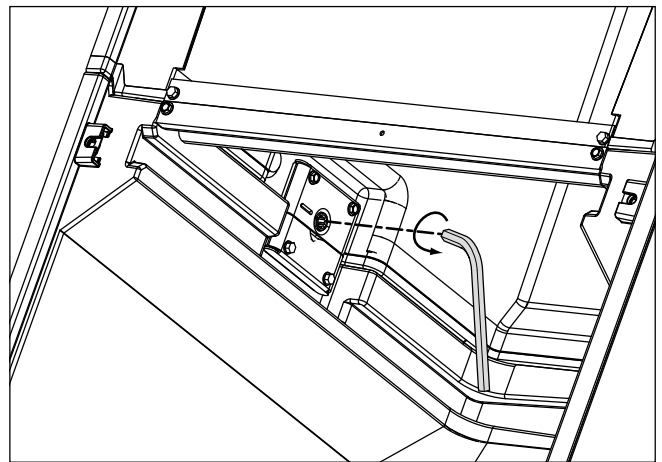
Note: If cut, wire ties that held the sensor must be replaced after the coil is placed back into the cabinet.

Optional Cabinet Disassembly

7. Slide Coil assembly out of unit using built-in coil support channels and set aside

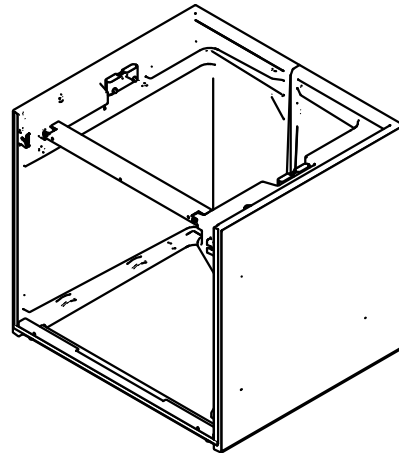
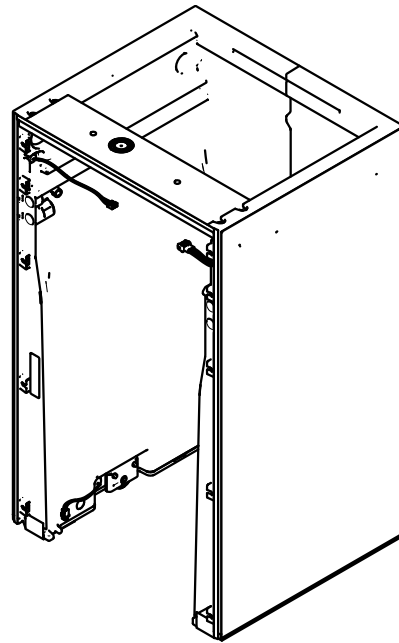


8. Use a 5/16 Allen wrench on the locking mechanism on each side of the bottom half of the cabinet to loosen the locking mechanism. The locks loosen by turning counter-clockwise approximately 3/4 of a turn.

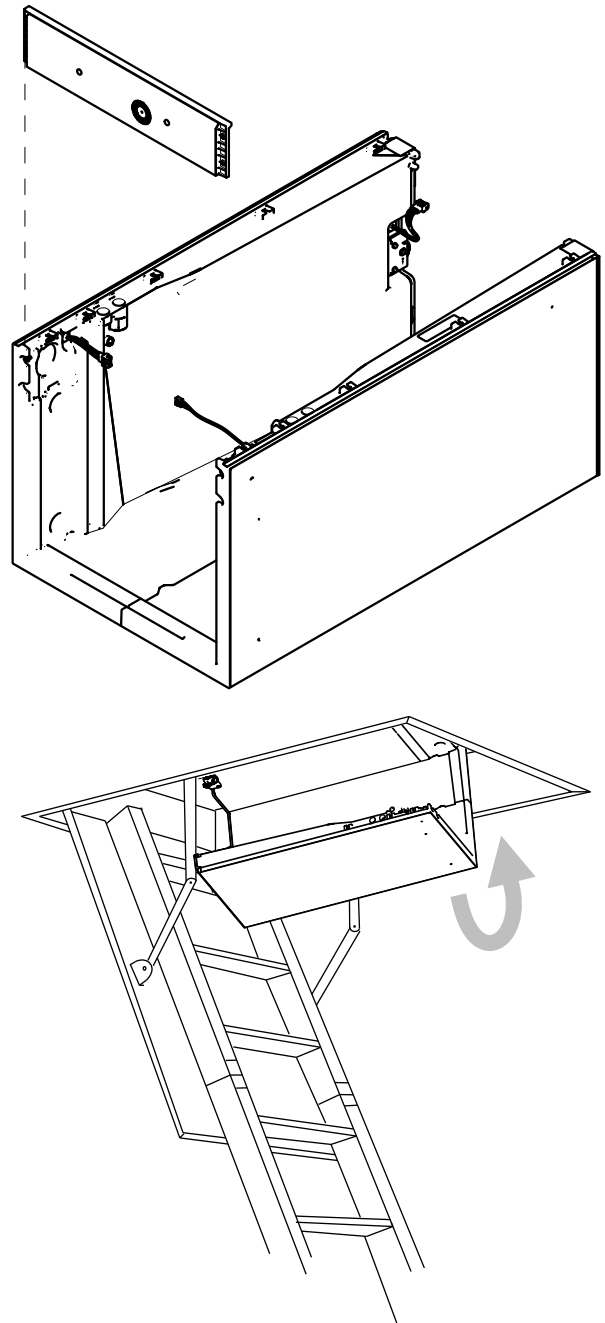


9. Lift the Coil section up and away from the Blower section. Set aside.

Note: When separating the two cabinet pieces, make sure the gasket remains intact.



10. For extremely tight spaces where the cabinet needs to be rotated through a small opening, remove the top panel and all cross members. Use a manual driver to avoid stripping screw holes.

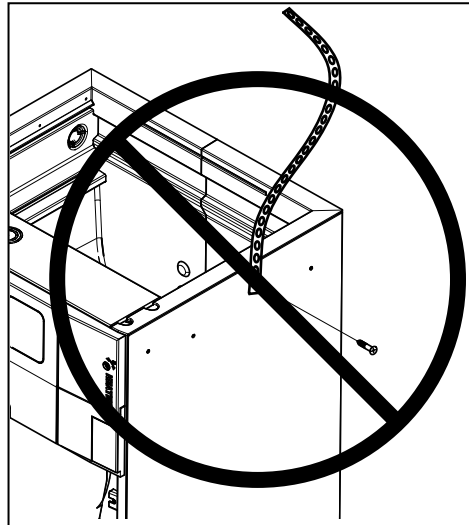


11. Continue preparation by following the proper carrying procedures shown in the next section.

Placing Unit at Location

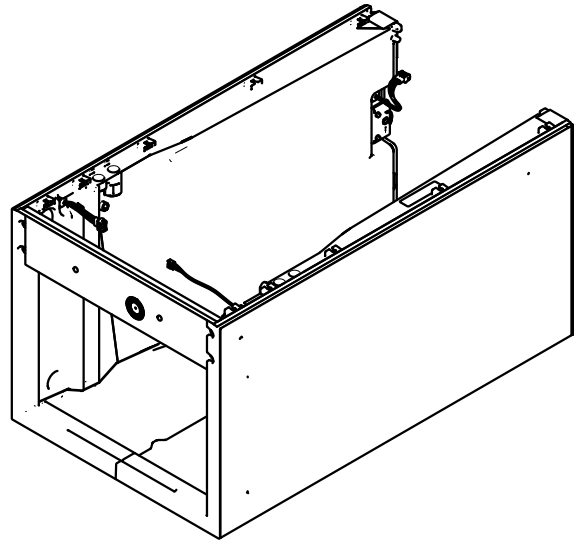
1. Carry the unit to the installation location
2. Reassembly by reversing the steps listed in Section 4 if disassembly was required. If cut, wire ties that held the sensor wiring must be replaced.

Important: Under no conditions should metal strapping be attached to the unit to be used as support mechanisms for carrying or suspension purposes.

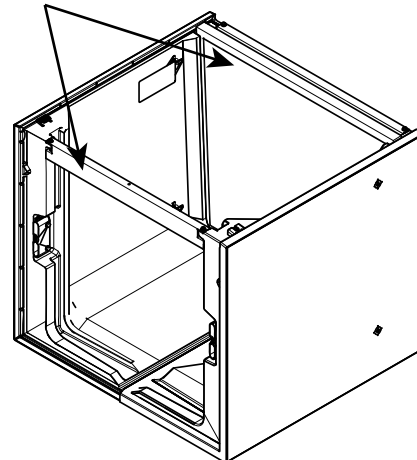


Approved Carrying:

- Hold by the cross members within the cabinet or unit top plate and use as handles for lifting and carrying the coil and blower sections.



Cross Members



Unit Location Considerations

⚠ WARNING

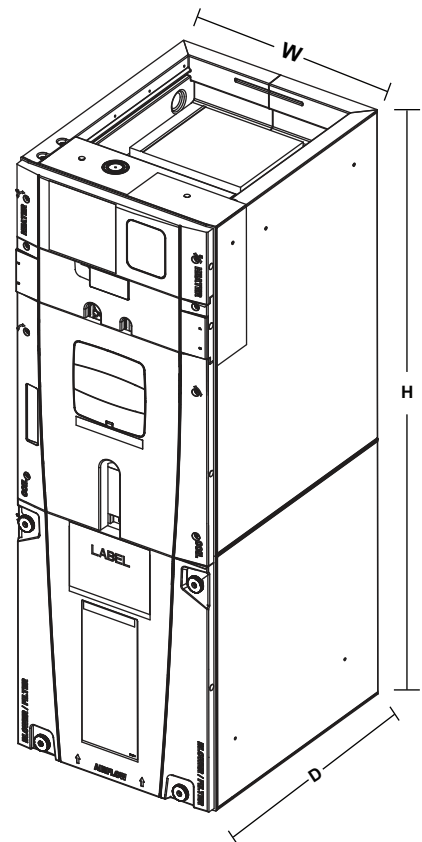
RISK OF FIRE!

The following requirements apply to the room where the air handler is installed:

- All combustion appliances located in the same room that have continuous pilot lights are equipped with an effective flame arrest.
- All indoor field-made joints of the field piping have been checked for refrigerant leaks after charging using an electronic leak detector calibrated for R-454B having a sensitivity of 5 grams per year or better.
- The room is constructed to ensure that should any refrigerant leak it will not stagnate and create a fire hazard.

Table 9. Unit Dimensions and Weight

MODEL NUMBER	H x W x D (inches)	Coil and Heater Compartment Height * (inches)	Unit Net Weight (pounds)
5TAMXB02AV21DA	49.9 x 17.5 x 21.8	28.1	120
5TAMXC03AV31DA	55.7 x 21.3 x 21.8	33.9	133
5TAMXD04AV31DA	56.9 x 23.5 x 21.8	35.1	143
5TAMXD05AV41EDA	61.7 x 23.5 x 21.8	39.9	174
5TAMXD06AV41DA	61.7 x 23.5 x 21.8	39.9	174
5TAMXD07AV51DA	61.7 x 23.5 x 21.8	39.9	178
* Blower compartment height is 21.8 inches.			

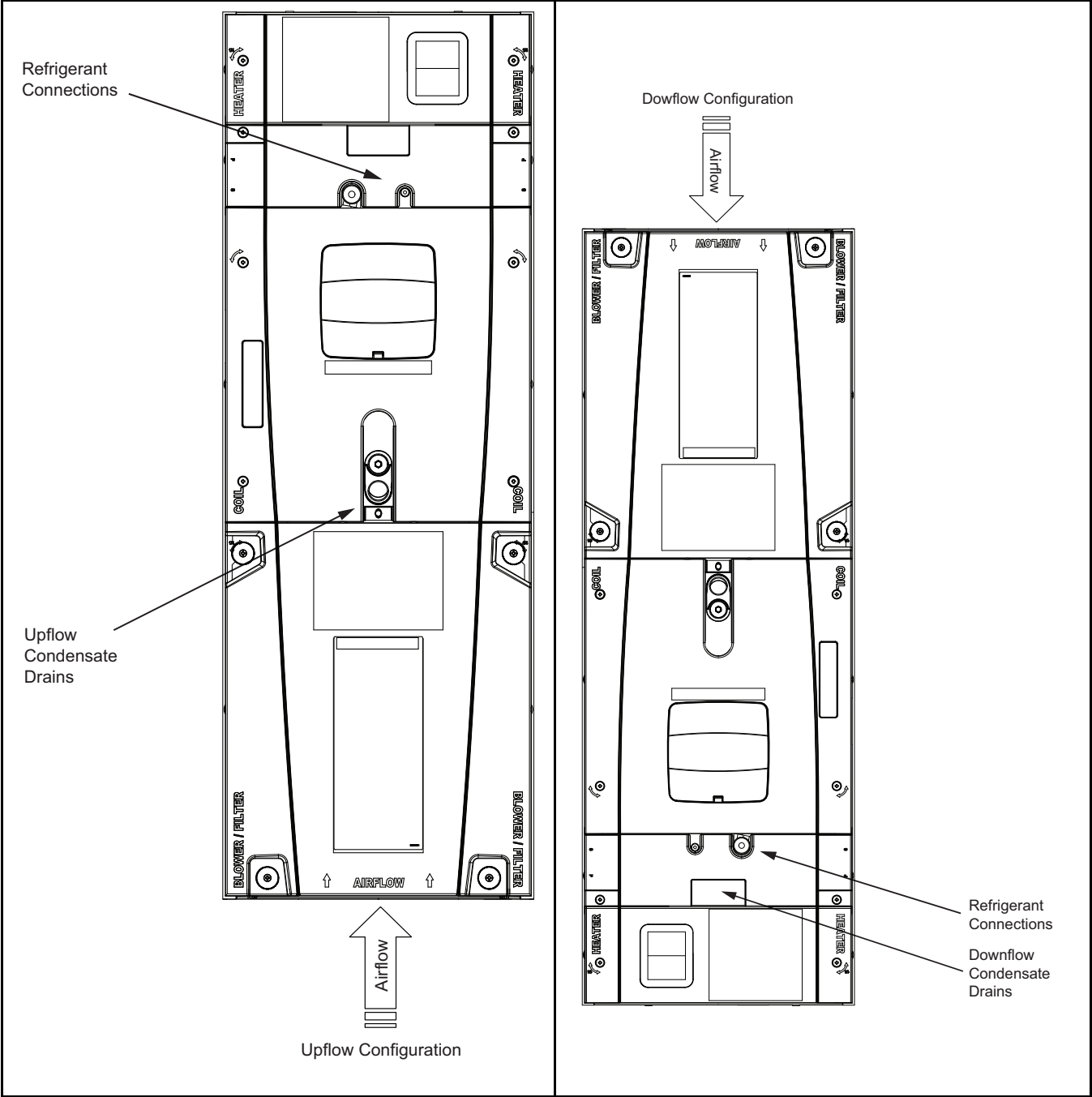


Four-Way Conversion

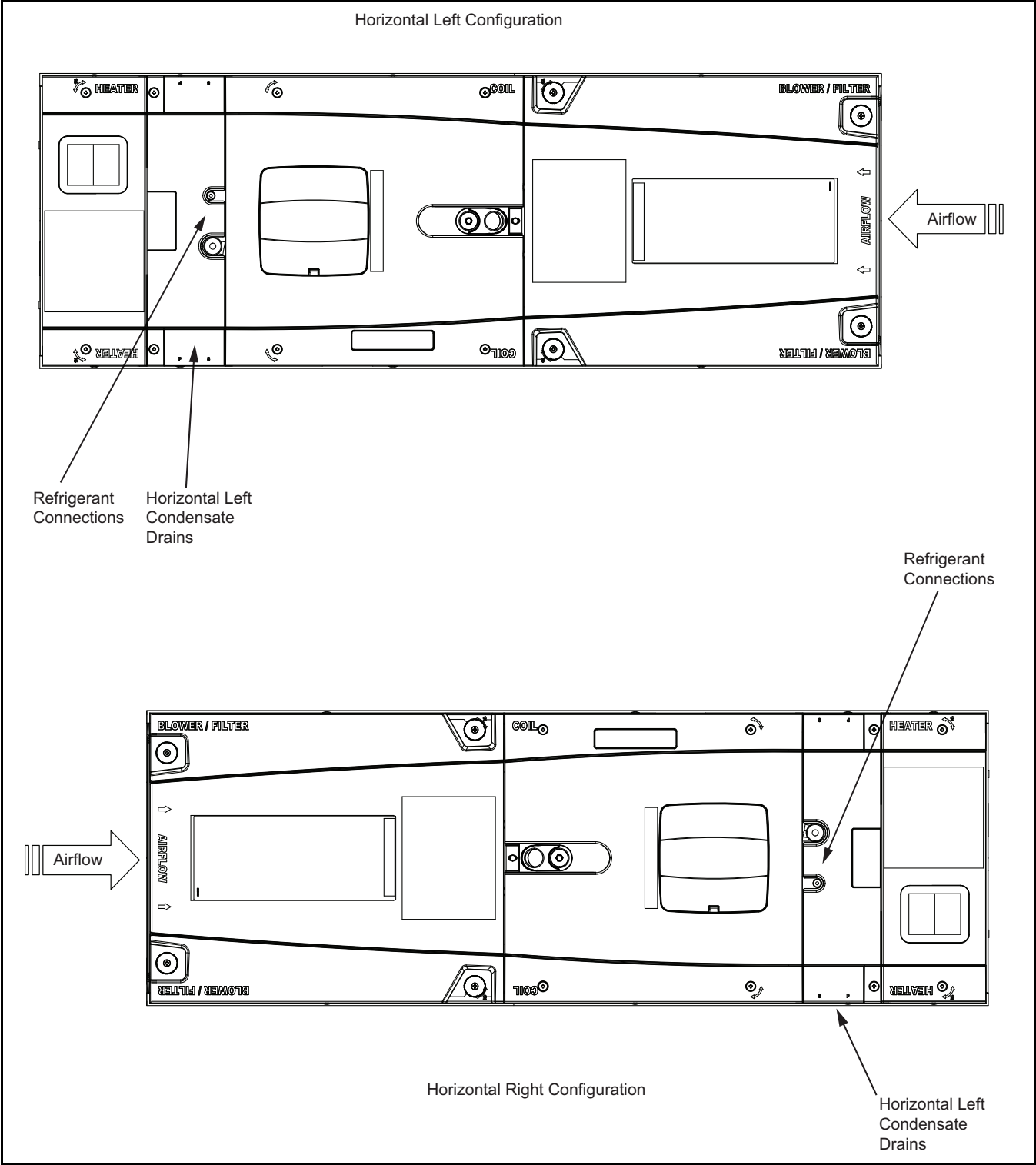
To place the unit in the configuration your application requires (upflow, downflow, horizontal right, or horizontal left), simply turn the unit to that orientation. Remember to adjust the badge and the A2L sensor accordingly.

Note: The air handlers are shipped from the factory suitable for four-way application.

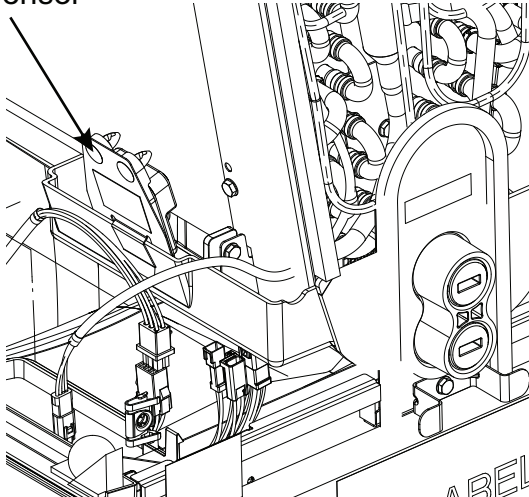
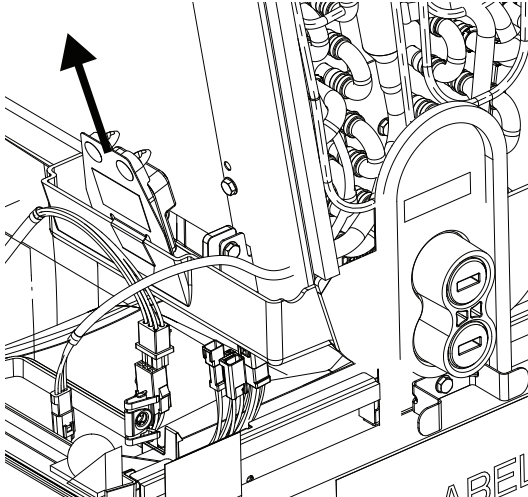
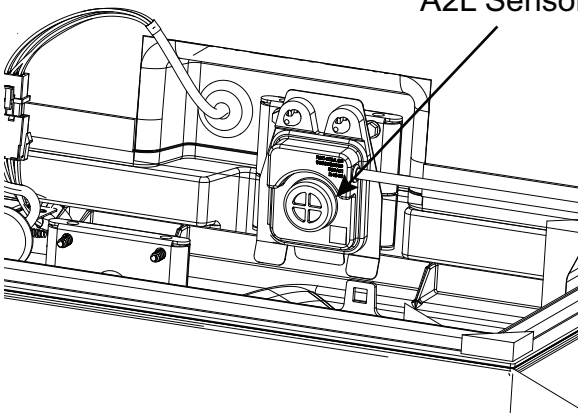
Note: Entry for low voltage connections is allowed on either side of cabinet. Refer to Table 17.



Four-Way Conversion



Horizontal Sensor Relocation:

<p>Note: The A2L sensor does not need to be relocated for upflow applications. It comes installed from the factory in the upflow position.</p> <p>1. Remove the coil panel and locate the A2L sensor on the upflow drain pan.</p>	<p>A2L Sensor</p> 
<p>2. Remove the A2L sensor from the drain pan by pulling directly up.</p>	
<p>3. Clip the sensor onto the blower deck just in front of the roto latch.</p> <ul style="list-style-type: none"> For horizontal right applications, clip the sensor on the right side of the unit. For horizontal left applications, clip the sensor on the left side of the unit. <p>Note: If the blower needs to be removed after this point, the A2L sensor will need to be removed and set aside before the blower is removed.</p>	<p>A2L Sensor</p> 

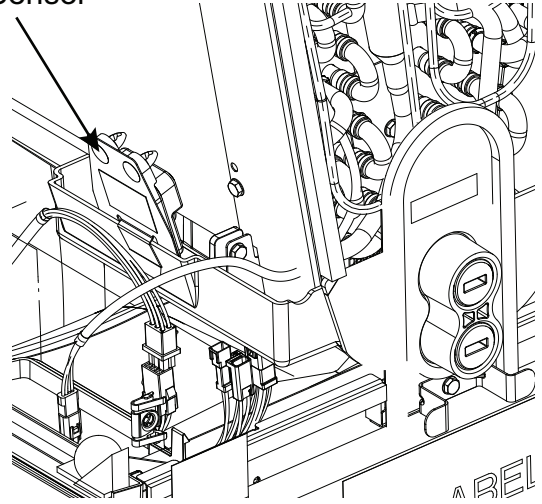
Four-Way Conversion

Downflow Sensor Relocation:

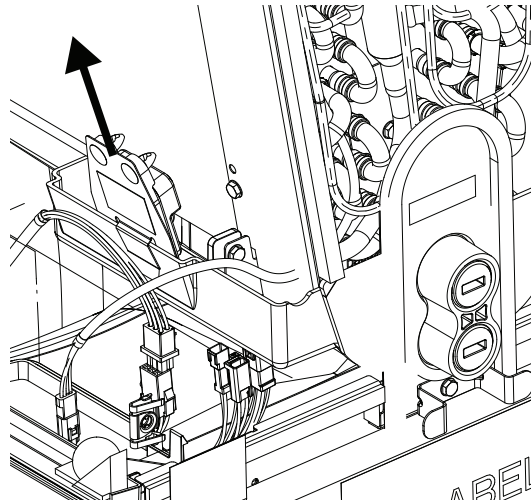
Note: To avoid damaging the refrigerant sensor, sensor should be relocated only after field braze joints have been completed.

1. Remove the coil panel and the line set panel. Locate the A2L sensor on the upflow drain pan.

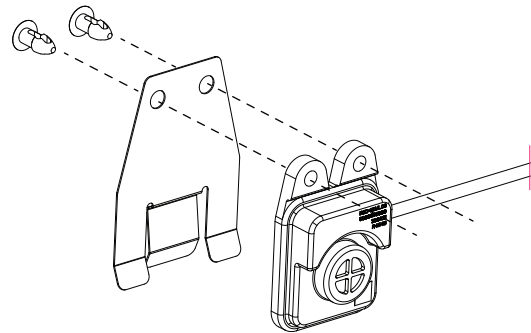
A2L Sensor

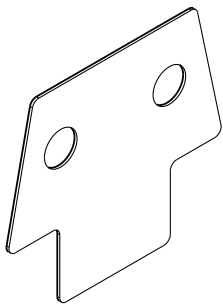
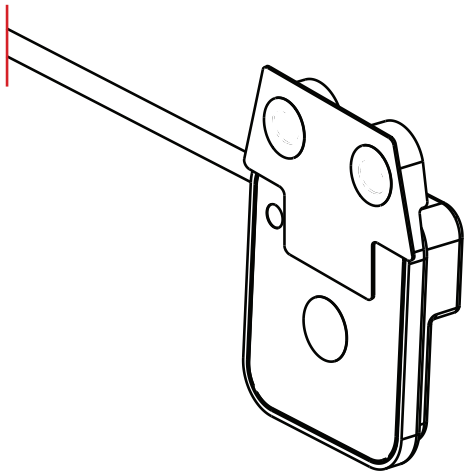
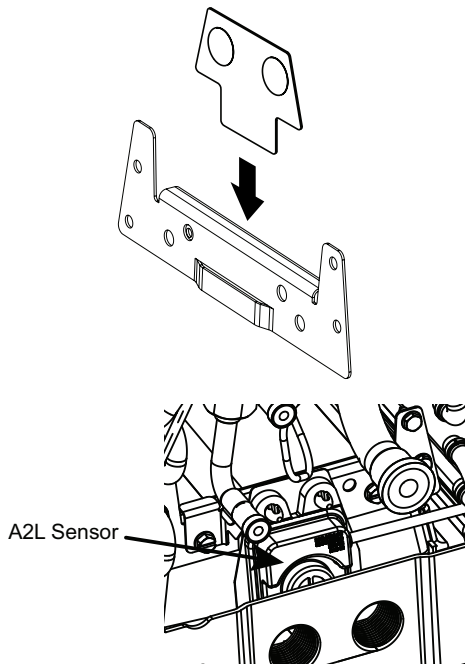


2. Remove the A2L sensor from the drain pan by pulling directly up.



3. Remove the A2L sensor from the metal bracket by removing the plastic push pins. Keep the push pins as they will be used later.



<p>4. Locate the downflow sensor bracket in the Documentation package.</p>	
<p>5. Secure the A2L sensor to the downflow bracket using the push pins.</p>	
<p>6. Place the tab of the downflow bracket into the slot on the coil support.</p> <p>7. Unbundle refrigerant sensor harness. Neatly route across front of coil using field-supplied wire ties. Connect harness to refrigerant sensor.</p>	

Ducted and Non-Ducted Return Applications

Table 10. Non-Ducted Applications

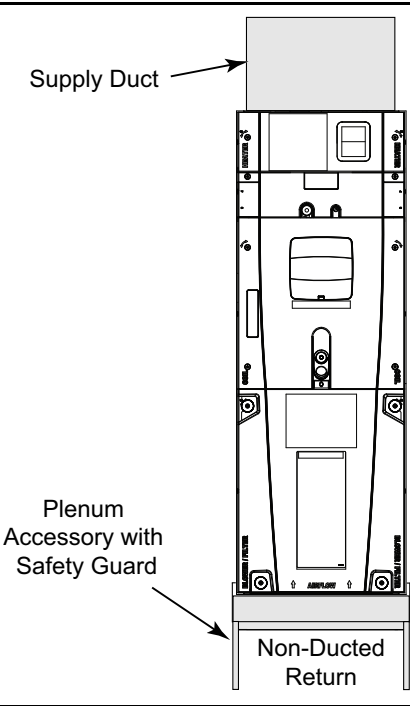
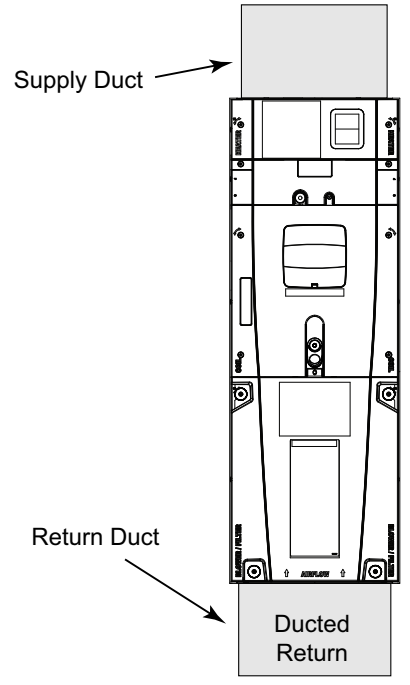
<p>⚠ CAUTION</p> <p>HAZARDOUS VAPORS!</p> <p>Failure to follow this Caution could result in property damage or personal injury. Hazardous vapors can be distributed throughout the conditioned space and equipment damage can result. Do not install an air handler with a non-ducted return in the same closet, alcove, or utility room as a fossil fuel device.</p>	 <p>Supply Duct</p> <p>Plenum Accessory with Safety Guard</p> <p>Non-Ducted Return</p>
---	---

Table 11. Ducted Return Installations.

<p>Ducted Return Installations:</p> <ul style="list-style-type: none"> Installation in an attic, garage, or crawl space with ducted supply and return air is appropriate. Minimum clearances to combustible materials and service access must be observed (see outline drawing). 	 <p>Supply Duct</p> <p>Return Duct</p> <p>Ducted Return</p>
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Additional Unit Preparation Considerations

For proper installation the following items must be considered prior to moving the unit to its installation site:

- Pursuant to Florida Building Code 13-610.2A.2.1, this unit meets the criteria for a factory sealed air handler.
- If a side return is needed for your application, the side return **MUST** be prepared prior to moving the air handler to its installation location. See the Side Return Kit #BAYSRKIT100A Installer Guide for detailed instructions, if used.
- When the air handler is located adjacent to the living area, the system should be carefully designed with returns which minimize noise transmission through the return air grill. Although the air handler is designed with large blowers operating at moderate speeds, any blower moving a high volume of air will produce audible noise which could be objectionable when the unit is located very close to a living area. It is often advisable to route the return ducts under the floor through the attic. Such design permits the installation of air return remote from the living area (i.e. central hall).
- Study the unit's outline drawing and dimensions prior to selecting the installation site. Note in advance which electrical conduit entry points and condensate drain holes are to be used, so that proper clearance allowances can be made for installation and future maintenance.

- Installation of the air handler must be made prior to, or at the same time as, the installation of the outdoor unit in order to allow access for refrigerant lines.
- Consider the overall space needed when external accessories are used, additional height and width requirements may exist.
- These units are not approved for outdoor installation.
- These units must be installed in the proper air flow direction.
- Any third-party heater accessories or hydronic coils must be downstream of the unit.

Note: *No atomizing style humidifier is allowed in the return plenum with the use of this unit.*

- Excessive bypass air may cause water blow-off, which will adversely affect system operation and air cleaner performance. To verify bypass airflow, follow the Bypass Humidifier Pre-Installation Checkout and Set-Up Procedures available through your local distributor. Ask for publication number 18-CH37D1-* Steam and Flow-through Fan Power Duct-mounted Humidifiers. Follow the humidifier installation instructions. These should only be installed on the supply air side of the system.

Note: *The air handlers have been evaluated in accordance with the Code of Federal Regulations, Chapter XX, Part 3280 or the equivalent. "SUITABLE FOR MOBILE HOME USE."*

Setting the Unit — Vertical Installation

Table 12. Considerations

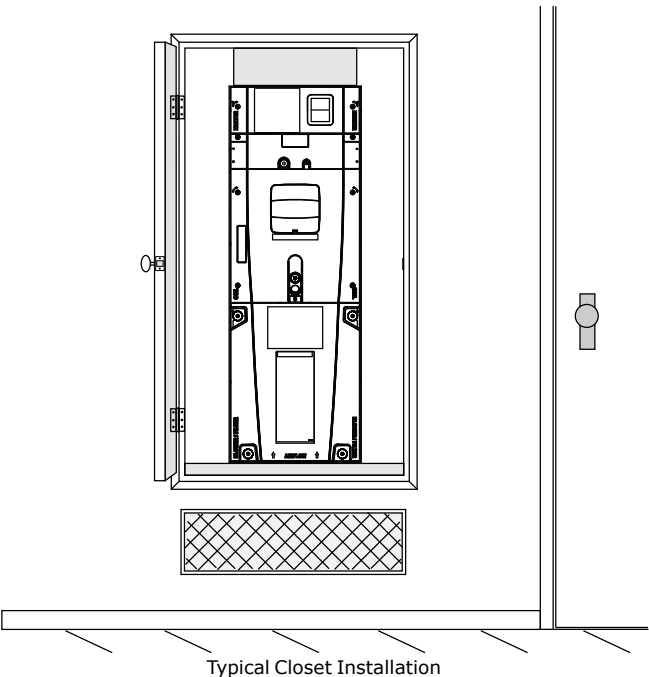
<p>Provide a minimum height of 14 inches for proper unrestricted airflow below the unit. Allow a minimum of 21 inches clearance in front of the air handler to permit maintenance and removal of filter.</p> <ul style="list-style-type: none"> Position unit on suitable foundation. If a manufacturer approved accessory is not used, a frame strong enough to support the total weight of the unit, accessories, and duct work must be provided. Isolate unit from the foundation using a suitable isolating material. <p>Note: The following sound insulation kits are available to lessen objectionable sound.</p> <p>BAYINSKT175A for use with 17.5" cabinets BAYINSKT215A for use with 21.5" cabinets BAYINSKT235A for use with 23.5" cabinets</p>	 <p>Typical Closet Installation</p>
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Table 13. Upflow Installation

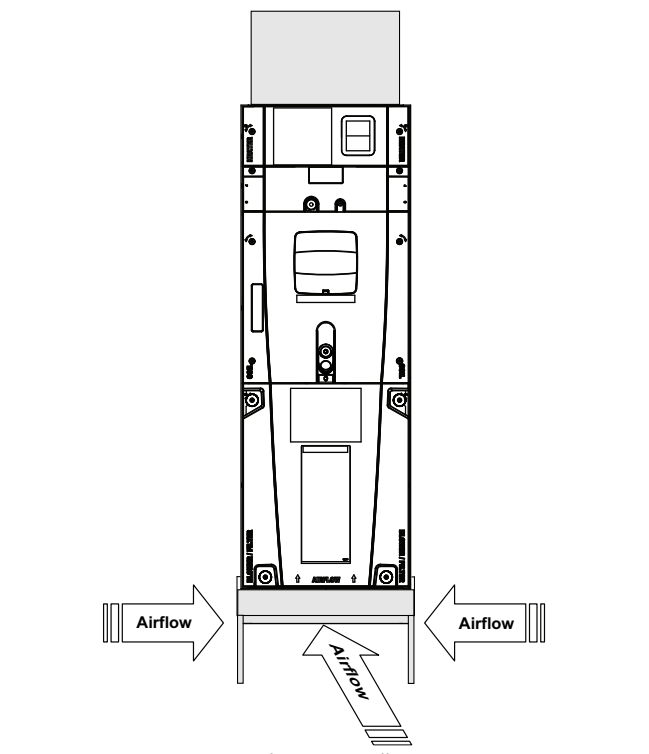
<p>TASB Installation</p> <ol style="list-style-type: none"> Install the TASB plenum stand with integrated sound baffle using the TASB instructions. <p>Note: Kit is used for open air applications.</p> <p>TASB175SB for use with 17.5" cabinets TASB215SB for use with 21.5" cabinets TASB235SB for use with 23.5" cabinets MITISRKIT1620 — Side return kit with 16" x 20" filter</p> <p>Contact your distributor for more information.</p> <p>Note: The following sound insulation kits are available to lessen objectionable sound.</p> <p>BAYINSKT175A for use with 17.5" cabinets BAYINSKT215A for use with 21.5" cabinets BAYINSKT235A for use with 23.5" cabinets</p>	 <p>Typical TASB Installation</p>
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Table 14. Plenum Installation

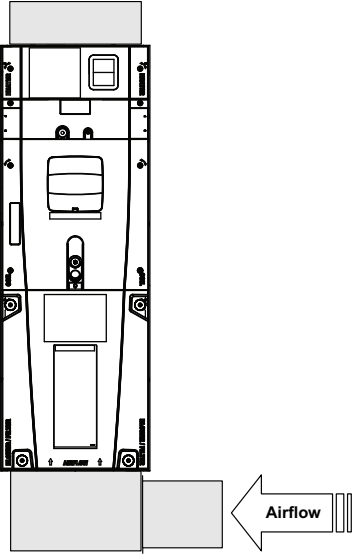
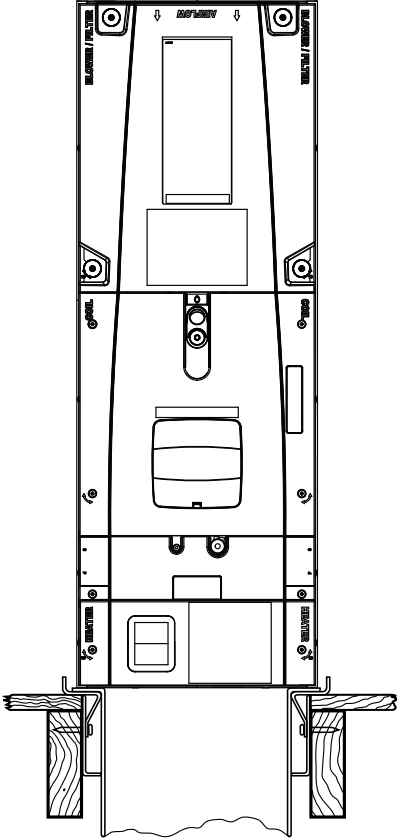
<p>2. Assemble the plenum using the plenum's Installer Guide.</p> <p>On units with sheet metal returns: Return plenum must be flanged. Sheet metal drill point screws must be 1/2" in length or shorter.</p>	 <p>The diagram shows a top-down view of a rectangular plenum assembly. It consists of several rectangular sections connected by ductwork. At the bottom, there is a large rectangular duct with an arrow pointing to the left, labeled 'Airflow'. Below the diagram, the text 'Typical Plenum Installation' is written.</p> <p>Typical Plenum Installation</p>
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Table 15. Downflow Installation

<ul style="list-style-type: none">Downflow installation must comply with national, state, and local codes. <p>3. Prepare the location site as appropriate for your application and per national, state, and local code requirements.</p> <p>4. Set the unit in position.</p>	 <p>The diagram shows a top-down view of a downflow installation. It features a rectangular plenum assembly with a central duct leading down to a unit. The unit is shown in a cross-section view, indicating it is mounted on a wooden structure. Below the diagram, the text 'Typical Downflow Installation' is written.</p> <p>Typical Downflow Installation</p>
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Setting the Unit — Horizontal Installations

Table 16. Considerations

Important: Due to the unique design of this unit, which allows the electrical wiring to be routed within the insulation, do not screw, cut, or otherwise puncture the unit cabinet in any location other than the ones illustrated in this Installer Guide or in an approved accessory's Installer Guide.

Important: Make certain that the unit has been installed in a level position to ensure proper draining.

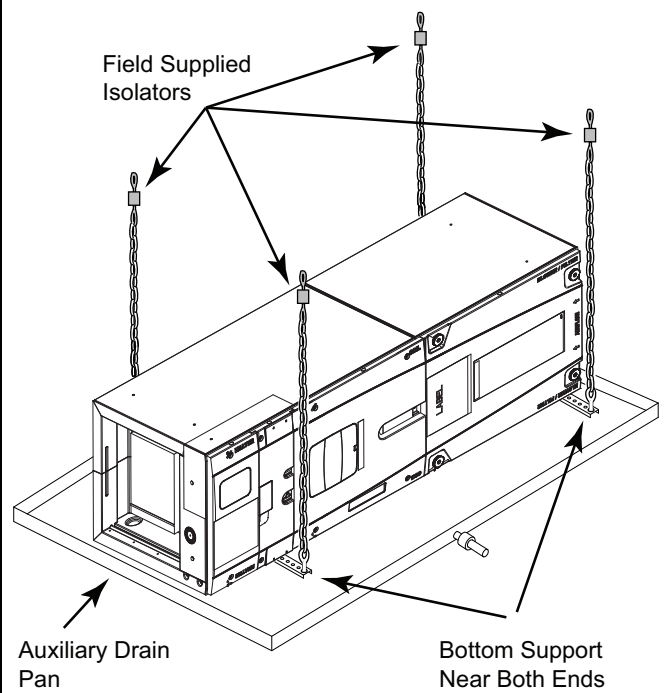
Important: Under no conditions should metal strapping be attached to the unit to be used as support mechanisms for carrying or suspension purposes.

1. Support the unit from the bottom (near both ends). The service access must remain unobstructed.
 - a. Approved bottom support methods are rail, u-channels (Unistrut®), or other load bearing materials.
 - b. The unit must be isolated carefully to prevent sound transmission. Field supplied vibration isolators are recommended.

Important: The unit can only be supported from the bottom unless using kit BAYHHKIT001A. Do not drill or screw supports into any area of the cabinet.

Note: Do not allow the unit to be used as strain relief.

2. Install an auxiliary drain pan under the horizontal air handler to prevent possible damage to ceilings.
 - a. Isolate the auxiliary drain pan from the unit and from the structure.
 - b. Connect the auxiliary drain pan to a separate drain line and terminate according to local codes.



Note: BAYHHKIT001A Hanging Bracket Kit may be ordered separately.

Important: The BAYHHKIT001A may not be used if the cabinet has been altered per Installer Guide 18-GJ58D1-1

Connecting the Duct work

Table 17. Duct Connection Considerations

Important: Due to the unique design of this unit, which allows the electrical wiring to be routed within the insulation, do not screw, cut, or otherwise puncture the unit cabinet in any location other than the ones illustrated in this Installer Guide or in an approved accessory's Installer Guide.

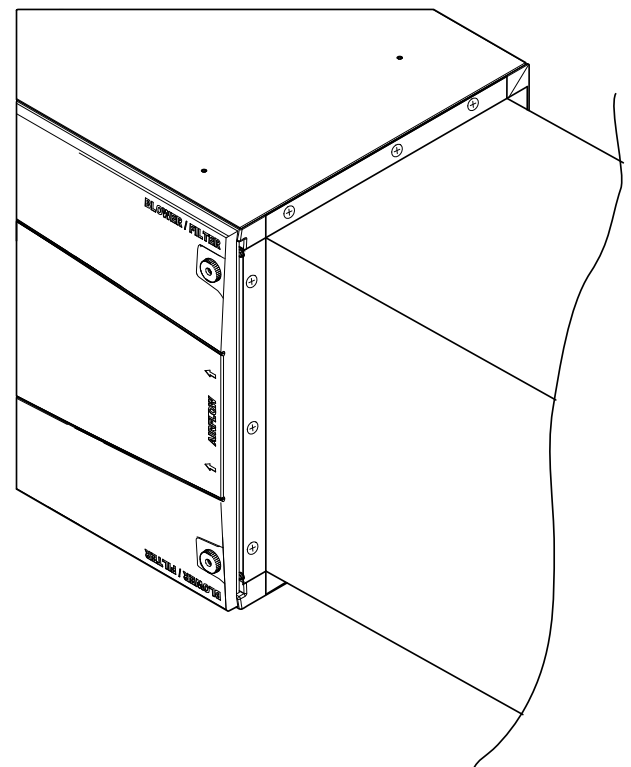
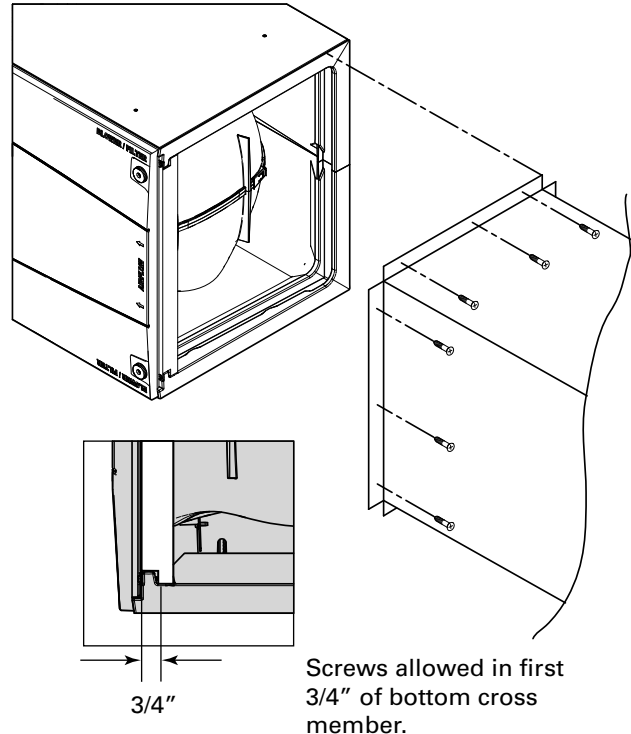
Important: Under no conditions should metal strapping be attached to the unit to be used as support mechanisms for carrying or suspension purposes..

Important: On units with sheet metal returns: Return air plenum must be flanged. Sheet metal drill point screws must be 1/2" in length or shorter.

- The supply and return air ducts must be connected to the unit with non flammable duct connectors.
- See the Outline drawing for sizes of the duct connections.
- After the ducts are secured, seal around the supply and return ducts to prevent air leakage.
- Insulate all duct work that will be outside of conditioned spaces.
- Convertible Duct Flange Kits are available to connect the supply plenum or for mounting on the discharge opening to provide a "flush fit" for 1–1/2" duct board applications.
- If front or rear return is required, the air handler must be elevated — placed on a pedestal or plenum and duct must be connected to this pedestal or plenum.
- If side return is required, the Side Return Kit # BAYSRKIT100A accessory must be used. A remote filter will be required.
- To ensure maximum efficiency and system performance, the existing supply and return duct system static pressures must not exceed the total available static pressure of the air handler. Reference ACCA Manual D, Manual S and Manual RS for additional information.

Note: Side return is not approved without Side Return Kit # BAYSRKIT100. More than one Side Return Kit may be necessary depending on the application. Refer to the Installation Guide in BAYSRKIT100 for approved duct connections, sizing, number, transitions, and accessory application.

Note: Duct work must be supported as appropriate. See National and local codes for guidelines. Do not depend on the unit to support duct work.



Refrigerant Line

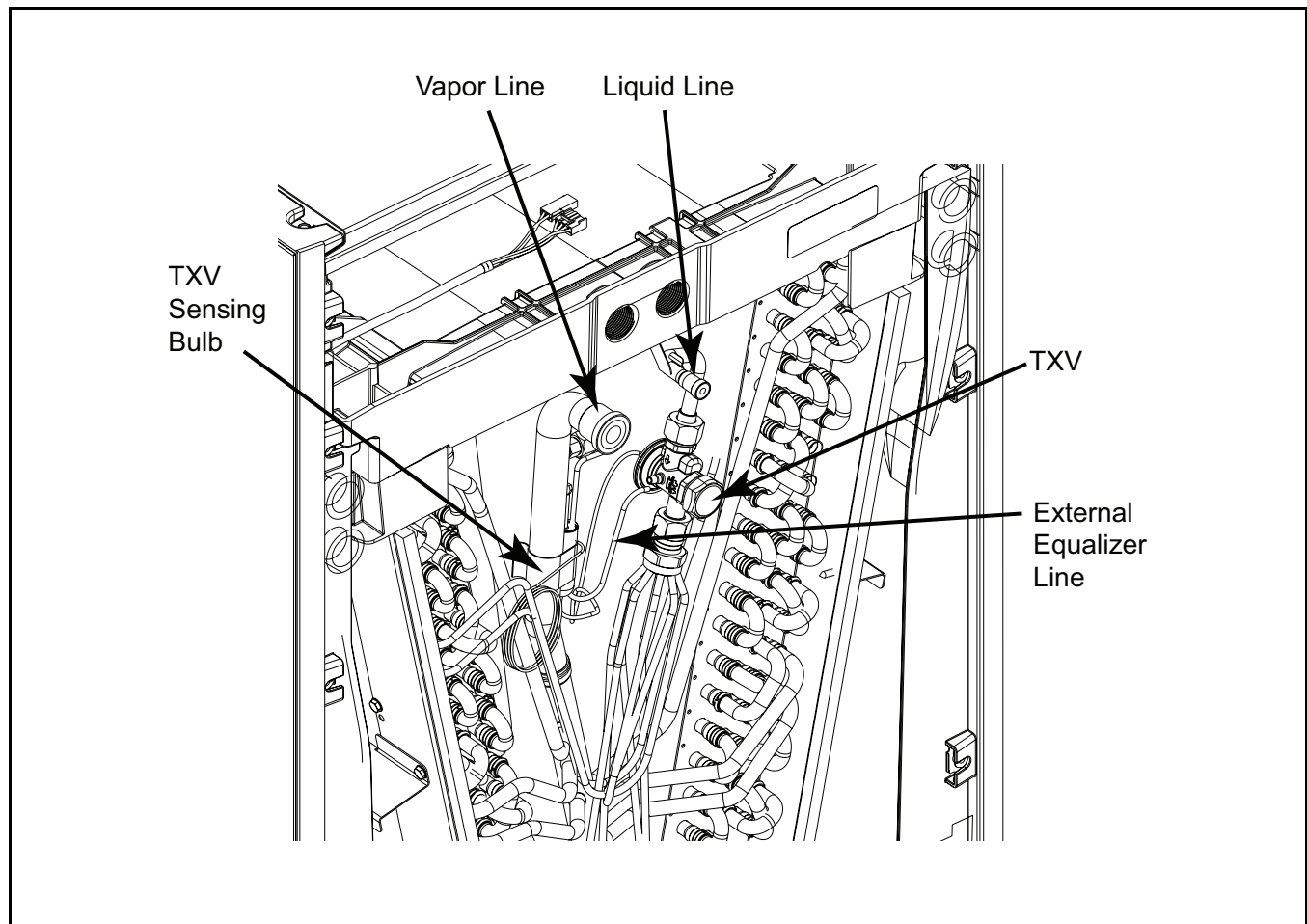
Table 18. Refrigerant Line Connection Sizes

Model	Vapor Line Connection	Liquid Line Connection
5TAMXB02AV21DA	3/4	3/8
5TAMXC03AV31DA	3/4	3/8
5TAMXD04AV31DA	7/8	3/8
5TAMXD05AV41DA	7/8	3/8
5TAMXD06AV41DA	7/8	3/8
5TAMXD07AV51DA	7/8	3/8

Notes:

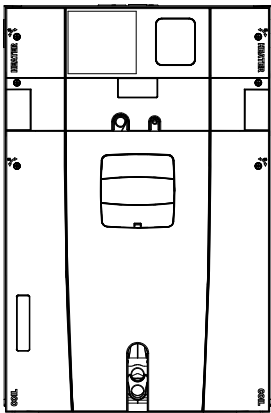
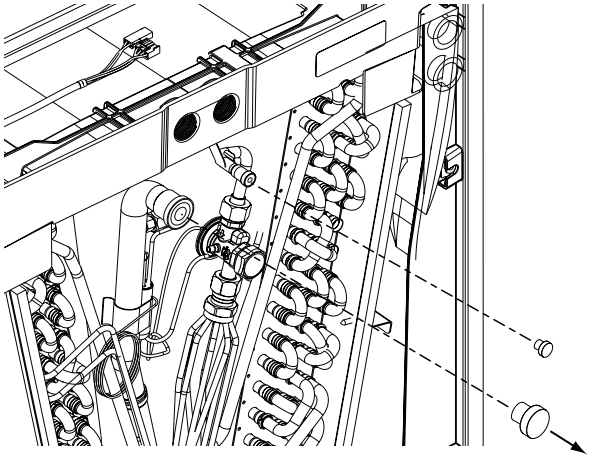
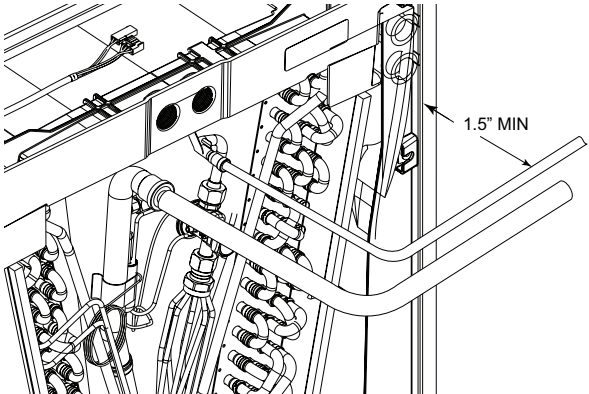
1. This table indicates the tubing connection diameters at the indoor coil. A field supplied reducing coupling may be required.
2. All AHRI listed systems are tested with 25 feet of refrigeration tubing; the rated tubing diameters are located in the electronic performance data system.
3. If the refrigeration lines exceed 60 feet in linear length and/or if alternate size refrigeration tubing is present at the job, please consult SS-APG006-EN or 32-3312** (latest version)

Refrigerant System Layout

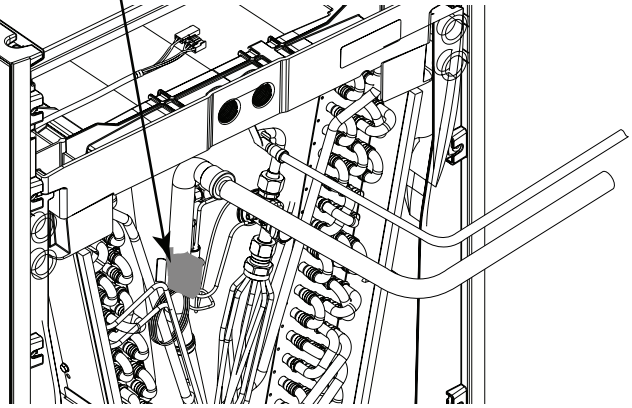
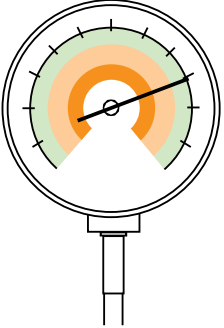
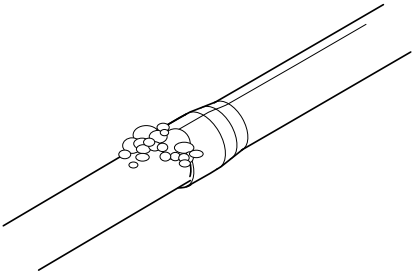


Refrigerant Line Brazing

Table 19. Braze the Refrigerant Lines

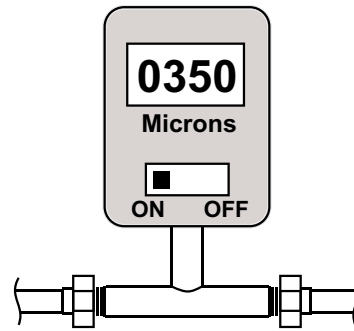
<p>1. Remove Heater, Coil, and Line Set panels.</p>	 <p>Heater Panel 1</p> <p>Line Set Panel 2</p> <p>Coil Panel 3</p>
<p>Important: Do NOT unseal coil refrigerant connection stubs until ready to make connections.</p> <p>Important: Heat Sensitive Sensors. The Gas Temperature Sensor must be removed or a wet rag must be wrapped around the suction line between the Sensor and the braze joint to protect it from failure due to overheating.</p> <p>2. Remove the sealing plug from the indoor coil suction line.</p> <p>3. Remove the sealing plug from the indoor coil liquid line.</p> <p><i>This coil is pressurized with 8–12 psig of dry air. Do not stand directly in front of the coil connections when removing sealing plugs.</i></p>	
<p>4. Connect, but do not braze field line set to indoor coil.</p> <p>a. Allow a minimum of 1.5 inches of refrigerant line set before using an elbow coupling.</p> <p>Important: Service access to the auxiliary heater must remain unobstructed.</p>	 <p>1.5" MIN</p>

Refrigerant Line Brazing

<p>Important: Heat Sensitive Sensor. The temperature Sensor must be removed or a wet rag must be wrapped around the suction line between the Sensor and the braze joint to protect the Sensor from failure due to overheating.</p> <p>5. Braze refrigerant line connections.</p> <ol style="list-style-type: none">Pull back the insulation before brazing the suction line.Wrap the Gas Temperature Sensor (GT) with a wet rag.Braze the refrigerant line connections. <p>Note: If system is installed in downflow, refrigerant sensor must be relocated after brazing. See section Horizontal Sensor Relocation on page 28.</p> <p>Important: Care must be taken during brazing to avoid damage to unit components and wiring.</p> <p>Note: The suction line must be insulated prior to brazing the line set to the air handler stubs.</p>	<p>Wet rag on TXV sensing bulb</p> 
<p>6. Using dry nitrogen, pressurize the field piping and indoor coil to the lower of the maximum operating pressures listed on the name plates of the indoor and outdoor units (likely 600 psi).</p> <p>7. The test pressure after removal of the pressure source shall be maintained for at least one (1) hour with no decrease of pressure indicated by the test gauge, with the test gauge resolution not exceeding 30 psi.</p>	<p>600 PSIG</p> 
<p>8. Check for leaks by using a soapy solution or bubbles at each brazed location.</p> <p>Note: Remove nitrogen pressure and repair any leaks before continuing.</p>	

Important: Do not open the service valves until the refrigerant lines and indoor coil leak check and evacuation are complete.

9. Evacuate until the micron gauge reads no higher than 350 microns, then close off the valve to the vacuum pump.



10. Observe the micron gauge. Evacuation is complete if the micron gauge does not rise above 500 microns in one (1) minute and 1500 microns in ten (10) minutes.
 - a. Once evacuation is complete blank off the vacuum pump and micron gauge, and close the valves on the manifold gauge set.

Note: Charge system using Outdoor unit's Installer Guide or Service Facts.

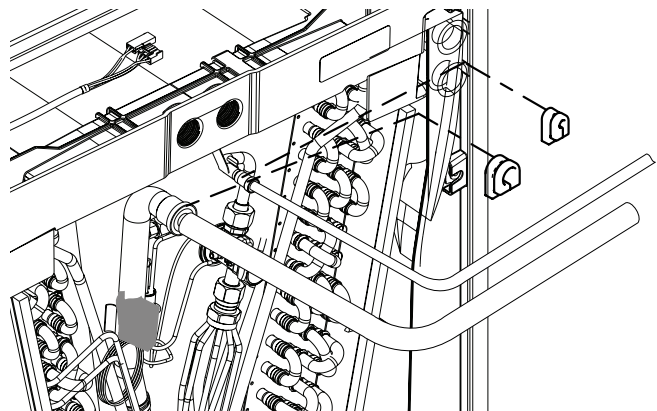
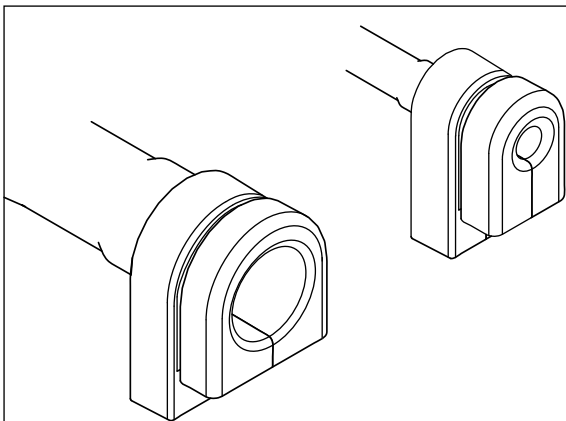
Note: Use soapy water to wipe any refrigerant oil off the panels.



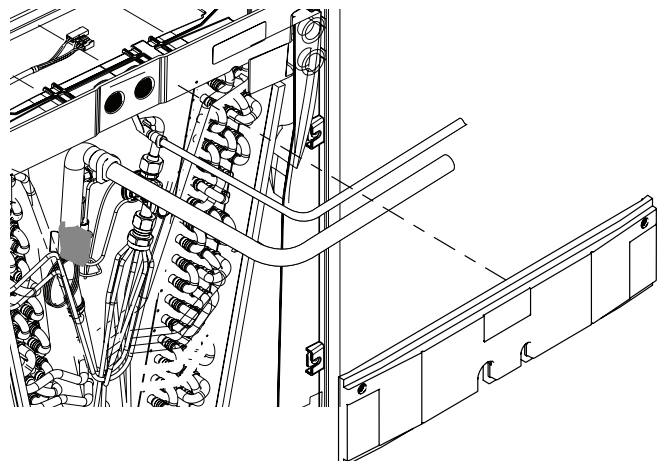
11. Replace the Line Set panel.
 - a. Allow time for tubing to cool.
 - b. Install grommets to line set piping in orientation shown.

Note: A slight amount of dish soap can be used to aid in the installation of the grommets. Remove any excess from the tubing and grommet after the grommet is installed.

- c. Slide the bottom of the Line Set panel down over the refrigerant lines and grommets. The grommets will seal the line openings.
- d. Tighten screws on the Line Set panel.



SEE ENLARGED ILLUSTRATION FOR ORIENTATION



Condensate Drain Piping

Condensate Drain Piping Considerations

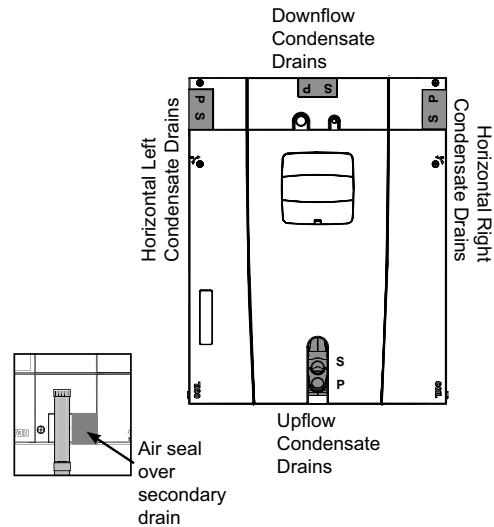
- Condensate drain plumbing must comply with national, state, and local codes.
- Route condensate drain lines away from air handler so they do not interfere with access panels.
- Slope the drain lines downward a minimum of 1/4" per foot, support per local codes.
- Do not use reducing fittings in the condensate drain lines.
- Do not connect the drain line to a closed drain system.
- Do not use a torch or flame near the plastic drain pan coupling.
- A P-trap is not required for proper drainage due to the positive pressure of the air handler; however, it is recommended to prevent efficiency loss of conditioned air.

Connect Condensate Drain Piping

Note: Downflow and horizontal orientations require the Coil panel to be removed in order to make the drain connections.

Note: Make certain that the unit has been installed in a level position to allow for proper draining.

1. Select the drain connections that are oriented for your application.
2. Prepare the condensate drain connections.
 - a. From the factory, the unit comes with plugs in both upflow condensate drains and an additional plug in the documentation packet.
 - b. For upflow applications, remove upflow condensate plug(s) and connect condensate piping.
 - c. For all other applications, do not remove upflow condensate plugs. Remove the cover from the needed condensate drain connections and connect condensate piping.
 - d. If the secondary condensate opening is not used, plug the condensate opening with the fitting supplied in the documentation pack. Use scissors to cut the air seal in half and re-install over the unused opening.

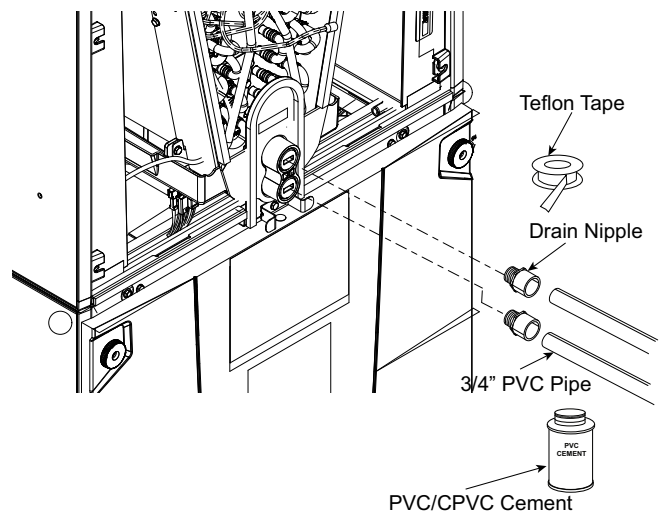


Note: A small amount of sealant must be applied around the drain line (s) passing through the panel to prevent air leakage and possible water drips.

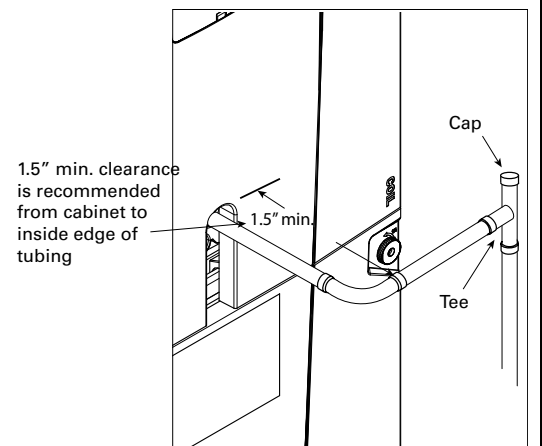
- **Dry fit and test clearance for coil panel removal before applying PVC/CPVC cement.**
- **Use Teflon tape on the air handler drain line connections. Do not use pipe joint compound or PVC/CPVC cement on drain nipple.**
- Hand tighten the drain pipe.
- 3. For upflow installations, connect 3/4" PVC pipe to the threaded drain nipple with PVC/CPVC cement. 3" minimum clearance to the condensate piping is needed for coil panel removal. Thread the assembly into the primary drain connection (repeat for the secondary drain connection if used).
 - a. Remove panel and insert the 3/4" nipples.
 - b. Reinstall the panel.
 - c. Connect the condensate lines to the nipples.

Important: For Horizontal and Downflow installations, the following order must be observed:

Note: A small amount of sealant must be applied around the drain line (s) passing through the panel to prevent air leakage and possible water drips.

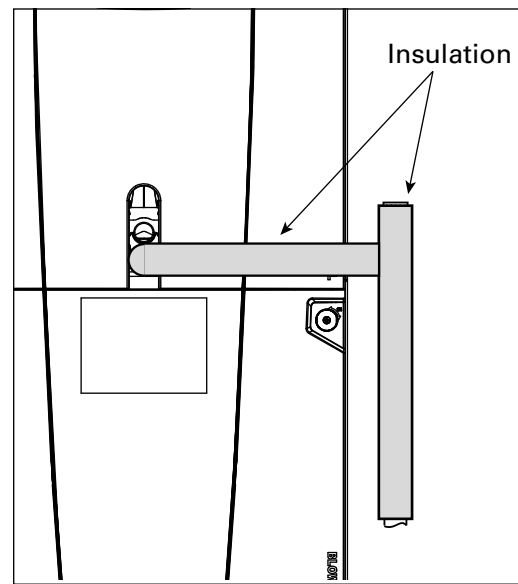


4. Install a clean-out tee in the primary drain line for future maintenance. It is recommended that you install a cap on the top of the tee.



5. Insulate the primary drain line to prevent sweating where dew point temperatures may be met. (Optional depending on climate and application needs.)

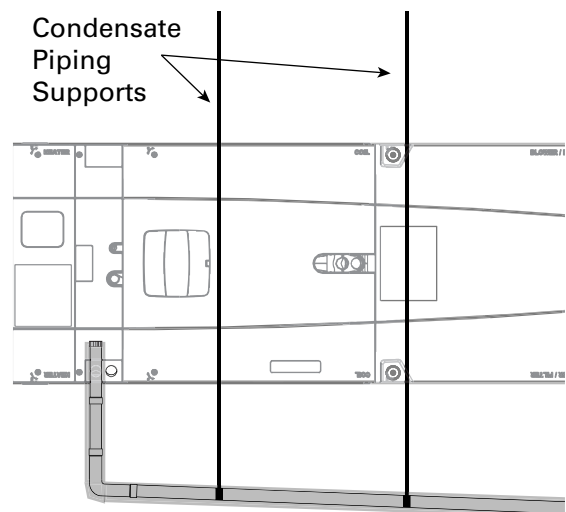
Provide a means of drainage to prevent winter freeze-up of condensate line (Optional depending on climate and application needs).



6. Support the condensate piping outside the unit per local codes for proper drainage and to prevent sagging.

Allow 1/4" of downward slope for each foot of pipe.

Note: If using downflow or horizontal drain lines, A2L sensor is required to be relocated. refer to Four-Way Conversion section for more details.

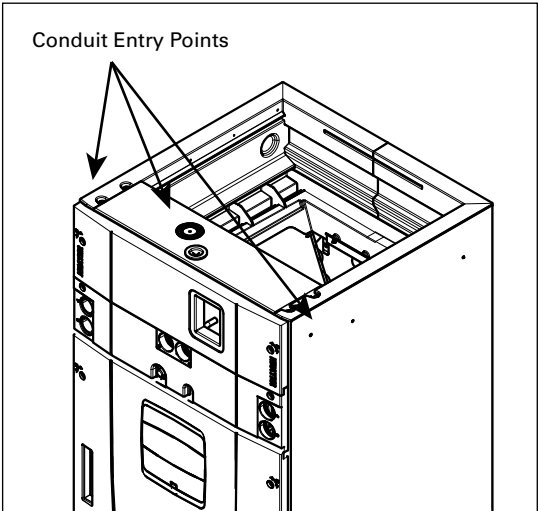
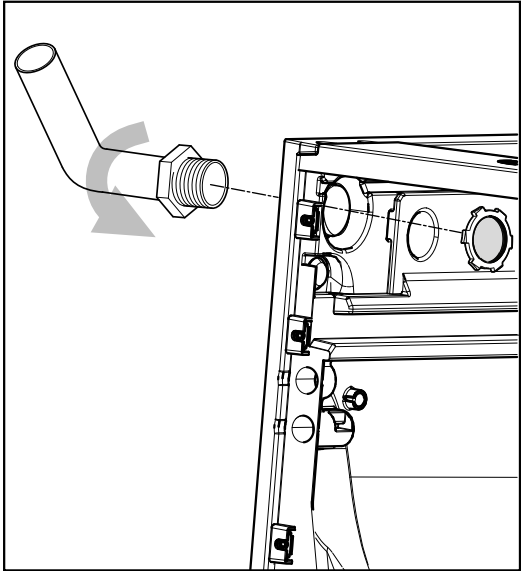


Electrical — High Voltage

Table 20. High Voltage Power Supply

<p>The high voltage power supply must match the equipment nameplate.</p> <p>Power wiring, including ground wiring must comply with national, state, and local codes.</p> <p>Field wiring diagrams for supplementary electric heaters are shipped with the heaters.</p> <p>To allow disconnection of the air handler from the power supply, a disconnection from the supply mains having a contact separation in all poles must be incorporated into the fixed wiring in accordance with national, state, and local codes.</p>	<div style="background-color: black; color: white; padding: 5px; text-align: center;">⚠ WARNING</div> <p>LIVE ELECTRICAL COMPONENTS!</p> <p>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.</p>
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Table 21. Make Electrical Connections

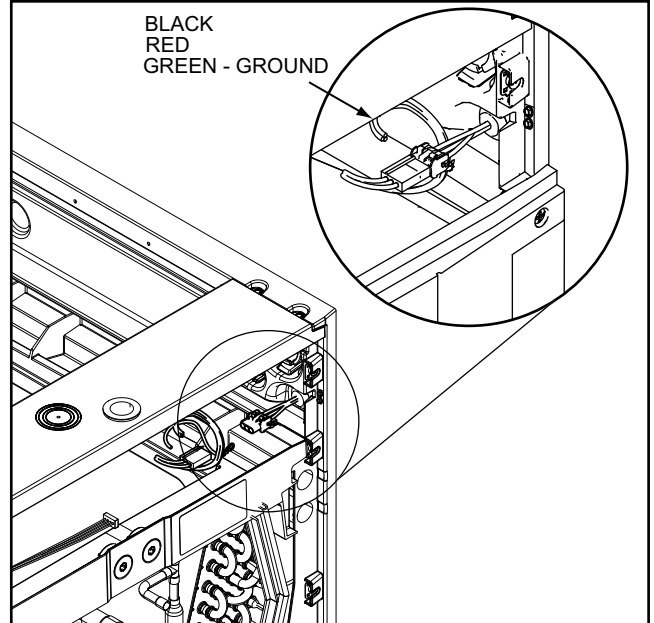
<ol style="list-style-type: none"> 1. Route High Voltage wiring to unit. 2. Select a conduit entry point. Drill a hole for the desired conduit size up to 1-1/2" diameter. A locating target is identified on these units. <ol style="list-style-type: none"> a. Select the entry point you will use to bring in your high voltage wiring. <p>Note: When drilling access through cabinet do not drill into any internal components. Remove internal components before drilling through cabinet, if possible. Damage to the air handler or heater could result.</p>	
<ol style="list-style-type: none"> 3. Route conduit (if used) to the entry point and connect. <ol style="list-style-type: none"> a. Use one hand to secure the conduit nut from inside of the heater compartment. b. Connect a field supplied 3/4" or 1-1/2" conduit to conduit nut. <p>Note: Reducing bushings may be required for your application.</p>	

4. If an electric heater IS NOT being installed, remove the pigtail harness from the documentation pack and connect it to the plug on the inside of the Heater Compartment in the cabinet.

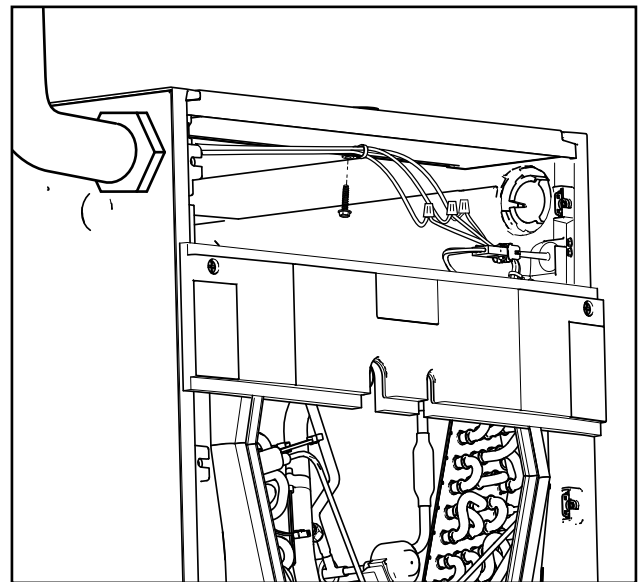
If an electric heater IS being installed, see the Installer's Guide shipped with the electric heater.

Note: The heater size will be automatically configured by installing a resistor in the Electric heat harness located in the electric heat compartment and will be included with the BAYEA heater.

Connect L1, L2, and ground wiring to pigtail harness in Heater Compartment using wire nuts. The incoming ground wiring will mate up with the green wire shown in the illustration.

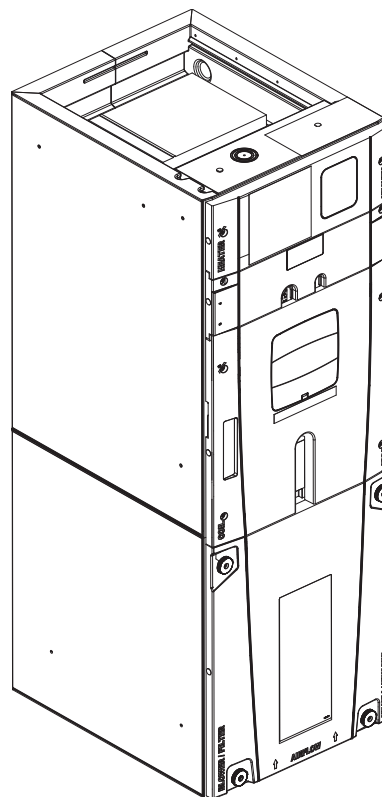


5. If the L1, L2, and ground wires enter the case from the left side, use a field supplied 1/2" — 5/8" maximum length screw and wire tie to hold the wires to the top center of the Heater Compartment.



6. Reinstall all panels before starting the air handler

Note: After replacing all panels, loosen the Line Set Panel screws approximately 1/4 — 1/2 turn. This will improve the seal between the Heater Panel and Line Set Panel.

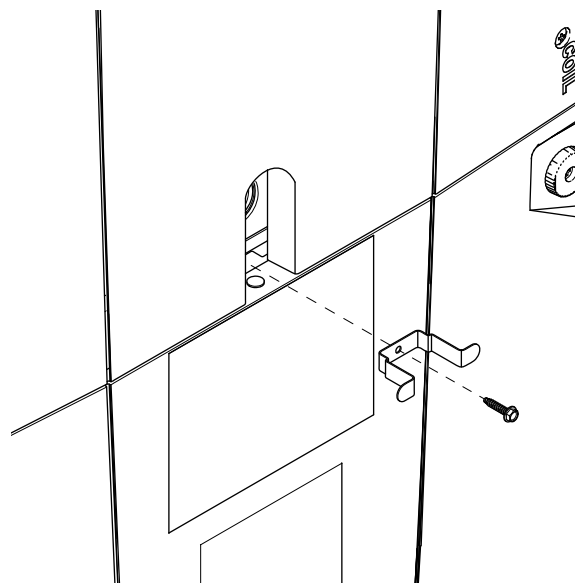


7. Remove screw and coil bracket from documentation packet.

8. Place the coil panel bracket into position and use screw to secure the coil panel bracket and seal plate to the support bar.

Important: The Coil Seal Plate and screw secure the coil in the center of the air handler. Failure to follow these steps can prevent the Coil Panel from being easily replaced on the unit.

Important: The Blower Panel may be removed if needed to help align the new screw with the seal plate and crossmember.



Electrical — Low Voltage

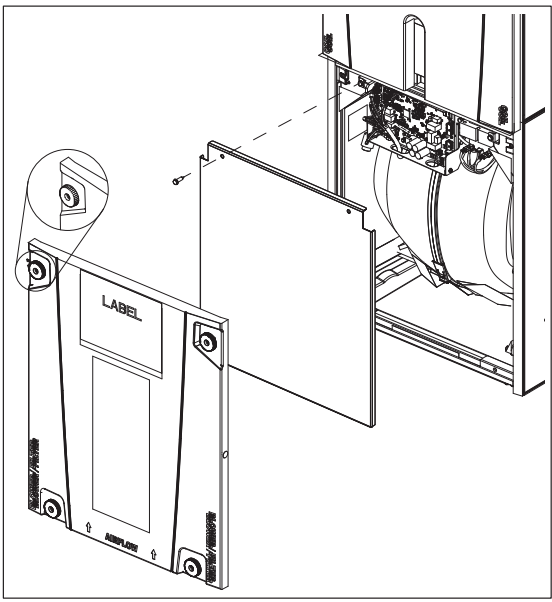
5TAMX can be used in either Link Communicating mode or 24 volt mode. In Link Communicating mode, all configurations are made by using the configuration menu in the User Interface (UX360) or from the Diagnostic Mobile App. In 24 volt mode, basic

operation is configured from the factory with no defaults for accessories. All configurations for blower delays, accessories etc., need accomplished using the Diagnostic Mobile App.

Table 22. Low Voltage Maximum Wire Length

<p>The Low Voltage Maximum Wire Length table defines the size and combined total maximum length of the low voltage wiring from the outdoor unit, to the indoor unit, and to the thermostat.</p> <p>Note: The use of color coded low voltage wire is recommended to simplify connections between the outdoor unit, the control, and the indoor unit.</p>	Control Wire — Communicating	
	WIRE SIZE	MAX. WIRE LENGTH
	18 AWG	500 FT. Combined
	Control Wire — 24 Volt	
	WIRE SIZE	MAX. WIRE LENGTH
	18 AWG	100 FT. Combined

Table 23. Low Voltage Hook-up Instructions

<ol style="list-style-type: none"> 1. Remove the Blower panels by removing the four fasteners and then pulling away from the cabinet to remove. 2. Remove the block off plate by removing the two 5/16" screws at the top and pulling the top out and up off the support bosses at the bottom. 	
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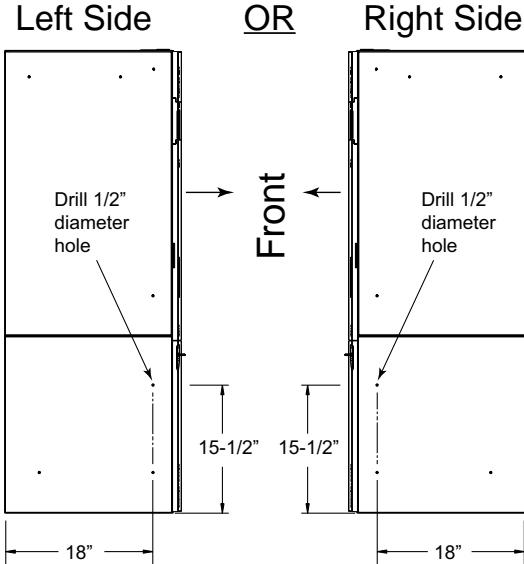
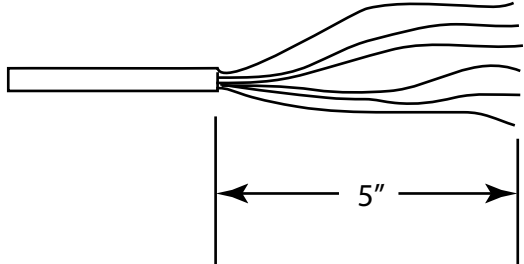
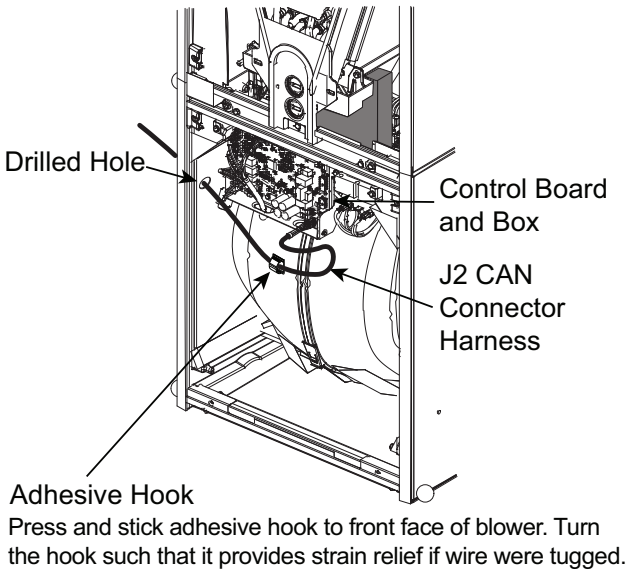
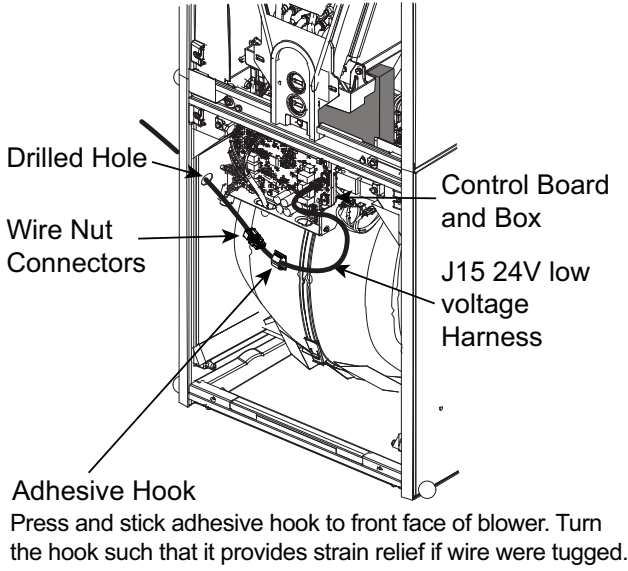
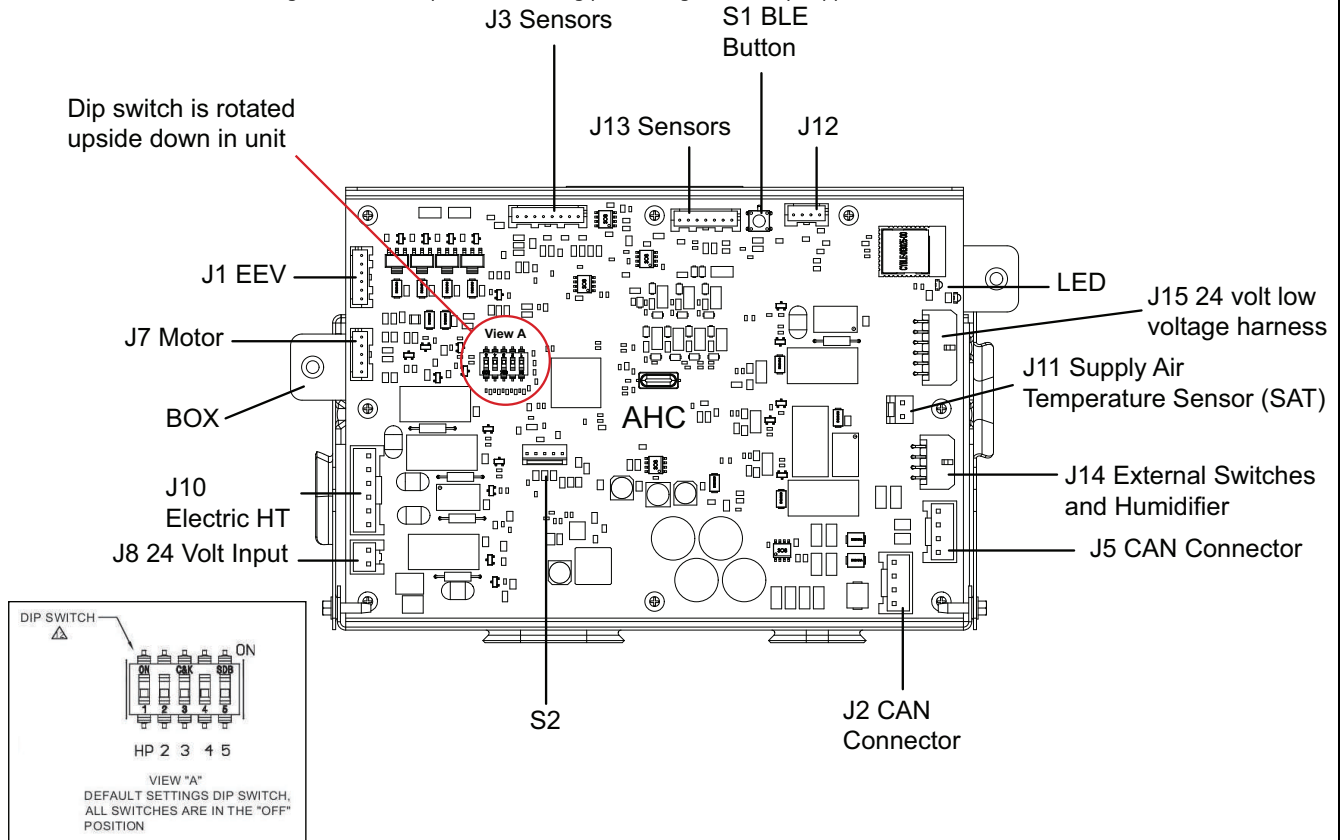
<p>3. For low voltage entry, drill a 1/2" diameter hole in side of blower cabinet at location shown on illustration. If needed for additional accessory wiring, a second hole may be drilled 2" below the first. Two 3/8" bushings are supplied in the doc pack.</p> <p>4. Route control wiring to unit and insert low voltage wiring.</p> <p>Note: After the LV wires have been inserted through the new hole, the hole must be sealed.</p> <p>Note: If a side return kit is used, the LV entry must be on the opposite side of the air handler.</p> <p>Note: When drilling access through cabinet do not drill into any internal components. Remove internal components before drilling through cabinet if possible. Damage to the air handler or heater could result.</p>	 <p>Left Side OR Right Side</p> <p>Drill 1/2" diameter hole</p> <p>Front</p> <p>15-1/2"</p> <p>18"</p>
<p>Note: Strain relief must be provided on the inside of the air handler cabinet for the low voltage wiring. Field supplied thermostat wires may be either wire tied to the control box or routed through the adhesive hook supplied in the doc pack.</p> <p>5. Remove the external sheathing of the wiring approximately 5".</p>	 <p>5"</p>

Table 24. Strain Relief for Low-Voltage Wiring Using Adhesive Hook

<p>Communicating Mode</p>  <p>Drilled Hole</p> <p>Control Board and Box</p> <p>J2 CAN Connector Harness</p> <p>Adhesive Hook</p> <p>Press and stick adhesive hook to front face of blower. Turn the hook such that it provides strain relief if wire were tugged.</p> <p>Note: For communicating mode, route the low voltage wiring through cabinet wall before terminating with included color-coded CAN connectors. (The CAN connector will not fit through the 1/2" drilled hole.) Refer to Table 19.</p>	<p>24V Mode</p>  <p>Drilled Hole</p> <p>Control Board and Box</p> <p>J15 24V low voltage Harness</p> <p>Wire Nut Connectors</p> <p>Adhesive Hook</p> <p>Press and stick adhesive hook to front face of blower. Turn the hook such that it provides strain relief if wire were tugged.</p>
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6. Secure the sheathed wiring to the control pocket mounting plate using the factory supplied wire ties attached to the tabs as shown.



7. Mount Supply Air Temperature Sensor

The Supply Air Temperature (SAT) Sensor must be mounted a minimum of 8" above the edge of the supply duct (additional distance is preferred when possible). Locate the SAT Sensor in an area of the discharge air duct where less air turbulence is expected. Avoid dead air areas where representative discharge air temperatures may not exist.

The plug on the SAT Sensor harness plugs directly onto the AHC Board. Refer to the figure in Step 7, Table 14.

Note: Supply Air Temp Sensor (SAT) is used in Link Communicating mode and is optional in 24 volt mode.

Note: Supply Air Temp Sensor (SAT) ships with SC360 System Controller.

Note: Supply Air Sensor kit is BAYSENSC360.

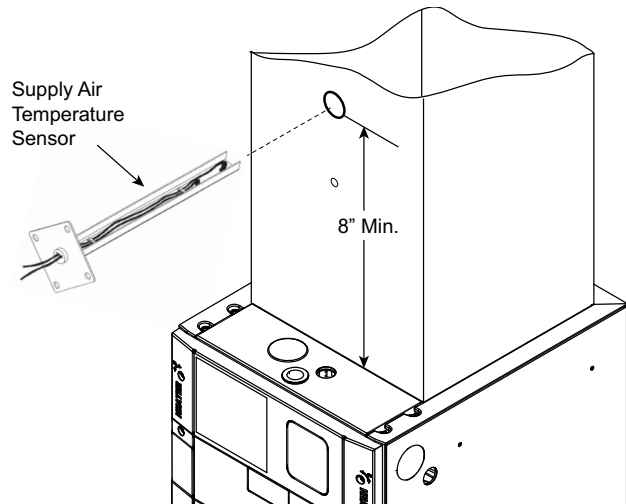


Table 25. Link Communicating Low Voltage Wire Connectors

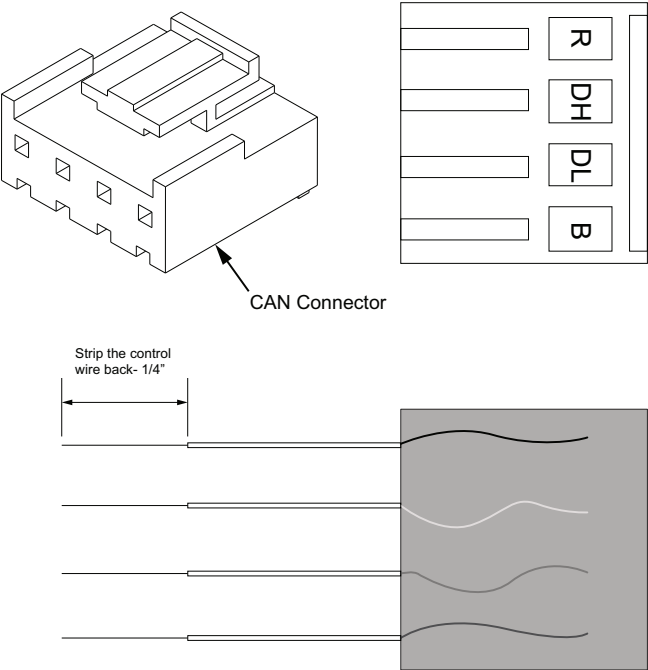
<p>Link mode uses simple connectors for low voltage connections. These connections are color coded which makes the installation easier and quicker.</p>											
<table><tr><th colspan="2">Wire Colors</th></tr><tr><td>R</td><td>Red</td></tr><tr><td>DH</td><td>White</td></tr><tr><td>DL</td><td>Green</td></tr><tr><td>B</td><td>Blue</td></tr></table>		Wire Colors		R	Red	DH	White	DL	Green	B	Blue
Wire Colors											
R	Red										
DH	White										
DL	Green										
B	Blue										
<p>Do the following to make the connections from the actual thermostat wire to the connector.</p> <p>Note: These connectors are necessary at the communicating outdoor unit, communicating indoor unit, distribution board(s), system controller and communicating accessories.</p> <ol style="list-style-type: none">Strip the Red, White, Green and Blue thermostat wires back 1/4".Insert the wires into the connector in the correctly colored locations.When you feel it release, allow each wire to slide in further.Pull back on the wires individually and slightly and check if the wires are seated properly. If each wire does not pull out for all four wires, the connection is complete.Connectors are ONE TIME USE. If a 18 ga. Thermostat wire gets broken off inside of the connector, the connector will need replaced.Wire colors are for illustration purposes only. If using a different color, ensure it lands at the correct terminal throughout all of the communicating control wiring. <p>Connect the CAN connector into the male coupling on the low voltage harness at the Outdoor unit.</p> <p>This air handler has two dedicated CAN Connector headers on the Air Handler Control (AHC) board. In Link communicating mode, both of them are in the communicating loop. It does not matter which one goes to the thermostat, System Controller, distribution board, outdoor unit or any other Link accessory.</p>											
<div><p>CAN Connector</p><p>Strip the control wire back- 1/4"</p></div> <p>Note: For use with 18 ga. solid core thermostat wire.</p> <p>Note: Note: For connections to the AHC, do not add color-coded connectors to the thermostat wire until after it has been pulled inside the blower compartment. (The CAN connector will not fit through the 1/2" drilled hole.)</p>											

Table 26. GET THE APP:

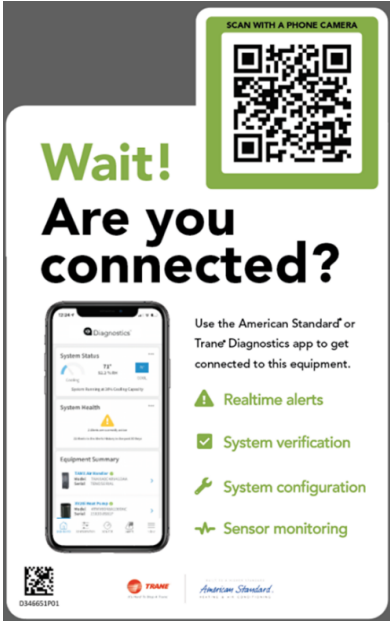
<p>The Diagnostics Mobile App can be found in your device App Store when searching for Trane Diagnostics or American Standard Diagnostics. A QR code can be scanned which sends you directly to the location:</p>	
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Table 27. External Switches and Accessories

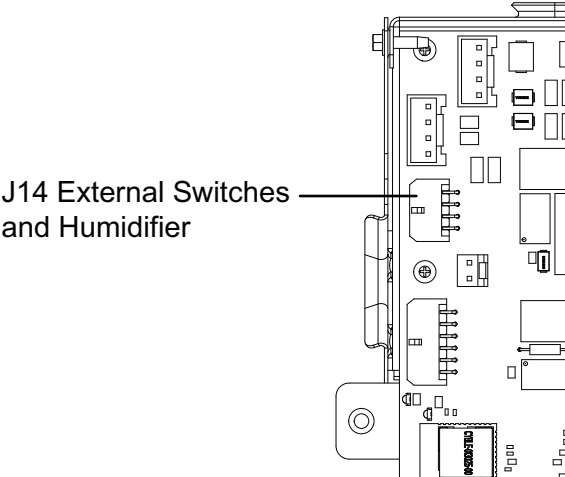
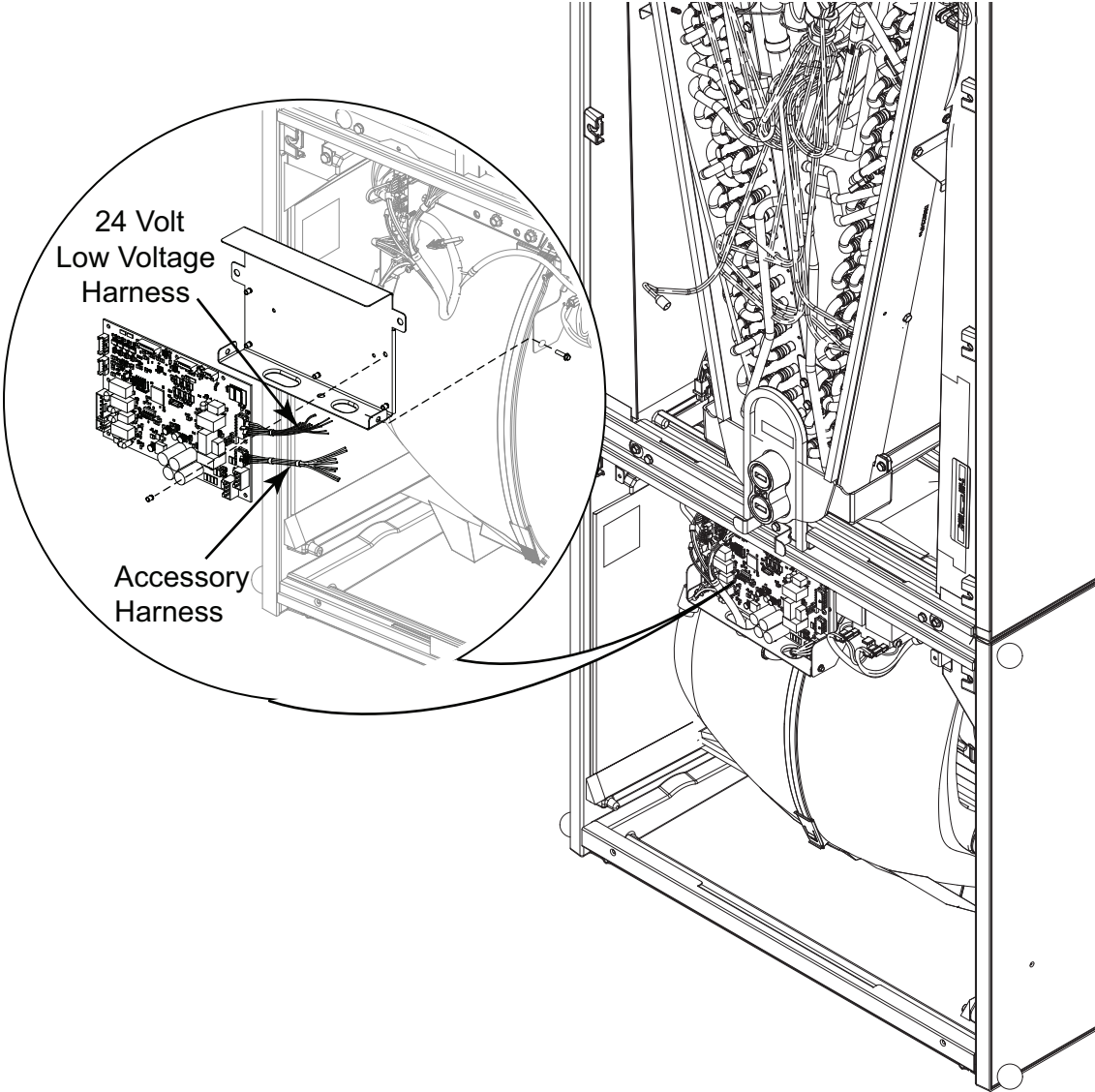
<p>When connecting a humidifier or an external switch to the air handler, locate the harness(es) in the doc pack. The plug on the harness will plug into the AHC control board.</p> <ul style="list-style-type: none">• External switch 1 and 2 do have 24 volts AC source voltage and are to be connected to Normally Closed (NC) contacts on the external device.• Accessory 1 and 2 are dry contacts and need source voltage provided from either the accessory or internally. <p>The external switches and accessories can be configured through the Smart Thermostat or the Diagnostics Mobile App.</p> <p>Note: Accessories can be configured in the UX360 User Interface or Diagnostics Mobile App in Link communicating mode ONLY.</p> <p>Note: Accessories need configured using the Diagnostics Mobile App in 24 volt mode. There are no defaults in 24 volt mode.</p>	
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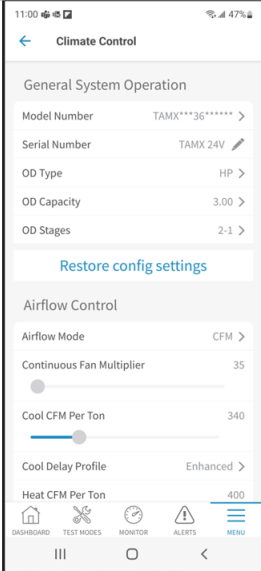
Table 28. Accessory Harness Installation

The accessory configurations can be done at either the UX360 User Interface in communicating mode or from the Diagnostics Mobile App. The accessories need configured from the Diagnostics Mobile App in 24 volt mode.



Black Wires	Ext Switch 1 External condensate, Smoke Detector
White Wires	Ext Switch 2 External condensate, Smoke Detector
Blue Wires	Accessory 1 EAC, Humidifier (Fan assist/ Bypass) Steam Humidifier
Green Wires	Accessory 2 EAC, Humidifier (Fan Assist/ Bypass) Steam Humidifier

Replacement AHC configuration – 24 volt mode

<p>Replacement AHC boards need programmed and will not run without configuration IN 24 Volt Mode. There are 2 ways to perform the configuration. 1 of the methods is required to get the unit running. Combining 2 or more methods will result in unwanted operation.</p> <ol style="list-style-type: none"> 1. The most complete configuration will be accomplished using the Diagnostics Mobile App. In this app, there are configurations for the model number, blower delays and accessories. 2. There is a Button Press method is to configure the size of the Air Handler and is accomplished by pressing the S1 button on the bottom of the control board in a sequence explained in this document. <p>Only 1 of these methods should be used.</p>	<p>Method #1:</p>  <p>The screenshot shows the 'Climate Control' app interface. At the top, it says 'General System Operation'. Below this, there are fields for 'Model Number' (TAMX***36****), 'Serial Number' (TAMX 24V), 'OD Type' (HP), 'OD Capacity' (3.00), and 'OD Stages' (2-1). There is a 'Restore config settings' button. Below this is the 'Airflow Control' section, which includes 'Airflow Mode' (CFM), 'Continuous Fan Multiplier' (35), 'Cool CFM Per Ton' (340), 'Cool Delay Profile' (Enhanced), and 'Heat CFM Per Ton' (400). At the bottom, there is a navigation bar with icons for 'Dashboard', 'Test Modes', 'Monitor', 'Alerts', and 'Menu'.</p>
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Button Press AHC Configuration Method: Method #2

Table 29. Configuration for Replacement AHC

Replacement AHC will need to be configured for unit size. Airflow will be set at 400 cfm/ton based on unit size configuration. These configurations can be done through the Diagnostics Mobile App with no manual steps or can be done manually without the Diagnostics Mobile App.		
Step	Manual Program Unit Model Size	Red LED Status
1	Hold BLE button for 5 seconds and release.	Red LED will be off.
2	1 Red flash that indicates system is ready to program.	1 Red LED flash alerts user that it is now able to program.
3	If configuration is present, Red LED will flash based on the configuration.	Red LED will be off if no configuration is present.
4	5 quick Red LED flashes.	5 quick Red LED flashes.
5	Start programming by clicking BLE button.	13 press - 5TAMXB02AV21DAA 14 press - 5TAMXC03AV31DAA 15 press - 5TAMXD04AV31DAA 16 press - 5TAMXD05AV41DAA 17 press - 5TAMXD06AV41DAA 18 press - 5TAMXD07AV51DAA
6	After the last button press, Red LED will flash 1 time to acknowledge programming.	Red LED will now flash the number of times you pressed to confirm your configuration. If you programmed the wrong size, within 2 seconds, start step 5 over.
7	Red LED will announce successful programming.	Red LED will turn on for 5 seconds announcing the configuration has been stored in NV memory correctly. Red LED will be on for only 2 seconds if not stored properly. Programming is complete.

Replacement AHC configuration — LINK Communicating Mode:

The system controller (SC360) will load important parameters in communicating mode and no interaction is necessary when replacing the AHC. IF the AHC and the System Controller (SC360) need replaced at the same time- contact your local FSR or technical support agent.
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Product Specifications

MODEL	5TAMXB02AV21DA	5TAMXC03AV31DA	5TAMXD04AV31DA
RATED VOLTS/PH/HZ.	200 — 230/1/60	200 – 230/1/60	200 – 230/1/60
RATINGS ^(a)	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.) ^(b)	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 — 4.1 ^(c)	3.0 – 4.1 ^(c)	3.0 – 4.1 ^(c)
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-454B	R-454B	R-454B
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 x 20 x 24.5	56.8 x 23.5 x 24.5	58 x 25.5 x 24.5
Uncrated	49.9 x 17.5 x 21.8	55.7 x 21.3 x 21.8	56.9 x 23.5 x 21.8
WEIGHT			
Shipping (Lbs.)/Net (Lbs.)	126/116	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.

MODEL	5TAMXD05AV41DA	5TAMXD06AV41DA	5TAMXD07AV51DA
RATED VOLTS/PH/HZ.	200 – 230/1/60	200 – 230/1/60	200 – 230/1/60
RATINGS ^(a)	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.) ^(b)	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 – 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 ^(c)	3.0 – 4.1	5.0 – 6.1	6.4 – 7.5
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-454B	R-454B	R-454B
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.)	58 x 25.5 x 24.5	62.8 x 25.5 x 24.5	62.8 x 25.5 x 24.5
Uncrated	56.9 x 23.5 x 21.8	61.7 x 23.5 x 21.8	61.7 x 23.5 x 21.8
WEIGHT			
Shipping (Lbs.)/Net (Lbs.)	162/150	174/162	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.

Air Flow Performance Tables

5TAMXB02AV21DA 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	290 CFM/ton	CFM Watts	407/546 22/40	430/403 51/48	398/NA 77/NA	347/NA 103/NA	255/NA 133/NA	290 CFM/ton	CFM Watts	416 22	426 49	401 76	330 101	291 134				
	350 CFM/ton	CFM Watts	534/630 39/57	549/531 71/68	542/360 103/73	509/NA 132/NA	445/NA 156/NA	350 CFM/ton	CFM Watts	532 37	550 69	542 101	507 129	434 152				
	400 CFM/ton	CFM Watts	617/697 54/72	633/617 90/86	632/501 125/96	604/NA 156/NA	559/NA 181/NA	400 CFM/ton	CFM Watts	660 62	680 99	679 136	658 169	614 197				
	450 CFM/ton	CFM Watts	691/762 72/91	710/693 111/106	707/602 148/119	688/478 183/127	649/NA 212/NA	450 CFM/ton	CFM Watts	690 69	710 108	709 145	690 180	651 208				
	290 CFM/ton	CFM Watts	593/680 54/68	613/595 85/81	607/470 119/90	583/208 150/94	527/132 175/138	290 CFM/ton	CFM Watts	593 48	613 82	608 116	582 147	527 172				
2 tons †	350 CFM/ton	CFM Watts	717/783 79/98	733/717 118/114	733/632 157/127	714/519 192/136	678/355 222/143	350 CFM/ton	CFM Watts	714 75	734 115	734 153	716 189	679 218				
	400 † CFM/ton	CFM Watts	810/868 108/128	827/811 152/146	827/740 194/161	813/652 233/173	782/543 265/182	400 (a) CFM/ton	CFM Watts	862 122	881 168	884 213	874 254	849 290				
	450 CFM/ton	CFM Watts	903/954 144/165	918/902 192/182	920/839 238/201	909/764 280/215	884/674 316/224	450 CFM/ton	CFM Watts	899 136	917 184	921 231	889 273	889 310				
	290 CFM/ton	CFM Watts	741/820 86/110	757/759 126/127	757/681 166/141	739/582 202/152	705/452 232/159	290 CFM/ton	CFM Watts	738 81	757 122	758 162	742 198	707 229				
	350 CFM/ton	CFM Watts	880/947 134/162	896/895 182/181	885/832 226/198	885/757 267/211	859/665 302/221	350 CFM/ton	CFM Watts	876 127	895 174	898 220	888 261	864 297				
2.5 tons	400 CFM/ton	CFM Watts	996/1059 188/220	1011/ 241/240	1014/954 291/257	1006/887 336/271	985/807 375/280	400 CFM/ton	CFM Watts	1064 215	1083 272	1089 326	1084 375	1066 418				
	450 CFM/ton	CFM Watts	1120/ 1180	1135/ 1134	1137/ 1081	1129/ 1019	1108/946 463/355	450 CFM/ton	CFM Watts	1115 244	1133 304	1139 360	1133 410	1116 453				
	290 CFM/ton	CFM Watts	260/297 875/943	319/317 891/891	373/334 892/891	422/347 880/751	854/659 300/218	290 CFM/ton	CFM Watts	244 125	304 172	360 217	410 259	453 295				
	350 CFM/ton	CFM Watts	1045/ 1106	1060/ 1059	1063/ 1004	1055/939 369/299	1035/862 409/308	350 CFM/ton	CFM Watts	1040 202	1058 257	1064 310	1059 358	1041 401				
	400 CFM/ton	CFM Watts	215/248 1200/ 1257	270/268 1212/ 1211	321/285 1212/ 1159	409/308 480/402	1035/862 409/308	400 CFM/ton	CFM Watts	202 1291	257 1302	310 1300	358 1220	401 1138				
3 tons	450 CFM/ton	CFM Watts	315/354 1358/ 1403	376/374 1333/ 1359	432/390 1256/ 1308	480/402 1177/ 1251	481/409 1095/ 1187	450 CFM/ton	CFM Watts	368 1355	432 1360	487 1286	478 1208	470 1128				
	290 CFM/ton	CFM Watts	447/484 1200/ 1257	482/502 1212/ 1211	472/517 1212/ 1159	466/527 1200/ 1099	460/531 1129/ 1030	290 CFM/ton	CFM Watts	422 1291	483 1302	476 1300	468 1220	462 1138				
	350 CFM/ton	CFM Watts	1045/ 1106	1060/ 1059	1063/ 1004	1055/939 369/299	1035/862 409/308	350 CFM/ton	CFM Watts	1040 202	1058 257	1064 310	1059 358	1041 401				
	400 CFM/ton	CFM Watts	215/248 1200/ 1257	270/268 1212/ 1211	321/285 1212/ 1159	409/308 480/402	1035/862 409/308	400 CFM/ton	CFM Watts	202 1291	257 1302	310 1300	358 1220	401 1138				
	450 CFM/ton	CFM Watts	315/354 1358/ 1403	376/374 1333/ 1359	432/390 1256/ 1308	480/402 1177/ 1251	481/409 1095/ 1187	450 CFM/ton	CFM Watts	368 1355	432 1360	487 1286	478 1208	470 1128				
• † Factory Setting			In torque mode, actual airflow may be lower.					• Torque mode will reduce airflow when static is above approximately 0.3" water column.										
• Status LED will blink once per 100 CFM requested.								• All heating modes default to Constant CFM.										
• Cooling airflow values are with wet coil, no filter																		
5TAMXB02AV21DA Minimum Heating Airflow Settings																		
MODEL NO.	BAYEA(13/AC)04BK1		BAYEA(13/AC)08BK1		BAYEA(13/AC)10BK1		BAYEA(13/AC)10LG1		BAYEA(13/AC)10LG3		BAYEA(23/BC)15BK1		BAYEA(23/BC)15LG3		BAYEA(23/BC)20BK1		BAYEA(33/CC)25BK1	
	BAYEA(13/AC)04LG1		BAYEA(13/AC)08LG1		BAYEA(13/AC)10BK1		BAYEA(13/AC)10LG1		BAYEA(13/AC)10LG3		BAYEA(23/BC)15BK1		BAYEA(23/BC)15LG3		BAYEA(23/BC)20BK1		BAYEA(33/CC)25BK1	
	BAYEA(13/AC)05BK1		BAYEA(13/AC)08LG1		BAYEA(13/AC)10BK1		BAYEA(13/AC)10LG1		BAYEA(13/AC)10LG3		BAYEA(23/BC)15BK1		BAYEA(23/BC)15LG3		BAYEA(23/BC)20BK1		BAYEA(33/CC)25BK1	
	BAYEA(13/AC)05LG1		BAYEA(13/AC)08LG1		BAYEA(13/AC)10BK1		BAYEA(13/AC)10LG1		BAYEA(13/AC)10LG3		BAYEA(23/BC)15BK1		BAYEA(23/BC)15LG3		BAYEA(23/BC)20BK1		BAYEA(33/CC)25BK1	
5TAMXB02AV21-DA	638/713		639/900		675/900		600/713		-		-		-		-		-	
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE FOR APPROVED COMBINATIONS																		

(a) Factory heating default setting is 430 CFM/ton

5TAMXC03AV31DA 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	290 CFM/ton	CFM	492 / 581	442 / 397	408 / NA	353 / NA	221 / NA	290 CFM/ton	CFM	485	437	393	349	300
	350 CFM/ton	Watts	22 / 30	45 / 41	71 / NA	98 / NA	129 / NA	350 CFM/ton	Watts	21	44	69	97	130
	400 CFM/ton	Watts	576 / 664	553 / 515	527 / NA	493 / NA	472 / NA	400 CFM/ton	Watts	574	545	517	489	457
	450 CFM/ton	Watts	30 / 40	58 / 54	87 / NA	117 / NA	150 / NA	450 CFM/ton	Watts	29	56	85	115	146
	450 CFM/ton	Watts	644 / 730	633 / 598	612 / 403	590 / NA	563 / NA	450 CFM/ton	Watts	643	624	605	583	559
2 tons †	290 CFM/ton	Watts	38 / 49	70 / 65	102 / 72	134 / NA	167 / NA	290 CFM/ton	Watts	37	67	99	132	165
	350 CFM/ton	Watts	711 / 794	708 / 673	691 / 510	678 / NA	656 / NA	350 CFM/ton	Watts	709	698	684	669	649
	400 † CFM/ton	Watts	47 / 60	83 / 77	118 / 86	154 / NA	189 / NA	400 † CFM/ton	Watts	45	80	115	151	186
	450 CFM/ton	Watts	627 / 713	611 / 576	589 / 369	568 / NA	542 / NA	450 CFM/ton	Watts	625	603	582	559	533
	450 CFM/ton	Watts	36 / 47	66 / 62	98 / 68	130 / NA	163 / NA	450 CFM/ton	Watts	35	64	95	127	160
2.5 tons	290 CFM/ton	Watts	734 / 815	730 / 698	717 / 541	705 / NA	684 / NA	290 CFM/ton	Watts	731	722	710	696	677
	350 CFM/ton	Watts	51 / 64	87 / 82	124 / 91	161 / NA	197 / NA	350 CFM/ton	Watts	49	84	120	157	193
	400 † CFM/ton	Watts	822 / 898	824 / 792	817 / 657	811 / NA	797 / NA	400 † CFM/ton	Watts	817	815	811	801	788
	450 CFM/ton	Watts	66 / 81	107 / 101	149 / 112	191 / NA	231 / NA	450 CFM/ton	Watts	63	103	145	186	226
	450 CFM/ton	Watts	910 / 982	916 / 884	916 / 763	914 / 610	904 / NA	450 CFM/ton	Watts	902	907	908	904	895
2.5 tons	290 CFM/ton	Watts	85 / 102	131 / 123	178 / 136	226 / 140	270 / NA	290 CFM/ton	Watts	80	126	172	219	263
	350 CFM/ton	Watts	755 / 860	753 / 749	742 / 606	732 / 397	712 / NA	350 CFM/ton	Watts	753	745	735	723	706
	400 CFM/ton	Watts	54 / 73	92 / 91	130 / 102	168 / 104	205 / NA	400 CFM/ton	Watts	52	88	126	164	201
	450 CFM/ton	Watts	887 / 985	893 / 887	891 / 767	888 / 614	876 / NA	450 CFM/ton	Watts	881	884	884	879	868
	450 CFM/ton	Watts	80 / 102	125 / 124	170 / 137	217 / 141	260 / NA	450 CFM/ton	Watts	75	120	165	210	253
3 tons	290 CFM/ton	Watts	998 / 1094	1010 / 1003	1017 / 895	1018 / 765	1008 / NA	290 CFM/ton	Watts	989	1001	1008	1008	1000
	350 CFM/ton	Watts	107 / 134	160 / 158	213 / 173	266 / 179	315 / NA	350 CFM/ton	Watts	100	152	205	257	306
	400 CFM/ton	Watts	1116 / 1212	1135 / 1126	1147 / 1027	1148 / 911	1134 / NA	400 CFM/ton	Watts	1104	1124	1136	1139	1128
	450 CFM/ton	Watts	143 / 176	205 / 201	267 / 219	325 / 227	376 / NA	450 CFM/ton	Watts	133	194	255	314	366
	450 CFM/ton	Watts	883 / 981	888 / 882	887 / 762	881 / 608	870 / NA	450 CFM/ton	Watts	877	880	879	874	863
3 tons	290 CFM/ton	Watts	79 / 101	124 / 122	169 / 136	214 / 140	257 / NA	290 CFM/ton	Watts	74	118	164	208	252
	350 CFM/ton	Watts	1043 / 1140	1059 / 1051	1068 / 947	1069 / 823	1059 / NA	350 CFM/ton	Watts	1034	1049	1058	1061	1053
	400 CFM/ton	Watts	120 / 150	177 / 174	233 / 190	288 / 197	339 / NA	400 CFM/ton	Watts	112	168	224	279	330
	450 CFM/ton	Watts	1190 / 1304	1214 / 1221	1226 / 1126	1223 / 1016	1201 / 886	450 CFM/ton	Watts	1177	1201	1215	1215	1198
	450 CFM/ton	Watts	170 / 203	238 / 231	304 / 251	364 / 261	414 / 261	450 CFM/ton	Watts	157	224	291	352	403
3 tons	450 CFM/ton	Watts	1355 / 1471	1376 / 1391	1375 / 1302	1353 / 1201	1296 / 1086	450 CFM/ton	Watts	1338	1363	1368	1350	1314
	450 CFM/ton	Watts	241 / 282	318 / 311	386 / 333	441 / 345	472 / 345	450 CFM/ton	Watts	221	299	369	427	472
<div><div>† Factory Setting</div><div>Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.</div><div>Torque mode will reduce airflow when static is above approximately 0.35" water column.</div><div>All heating modes default to Constant CFM.</div><div>Cooling airflow values are with wet coil, no filter</div></div>														
5TAMXC03AV31DA Minimum Heating Airflow Settings														
MODEL NO.	BAYEA(13/AC)04BK1 BAYEA(13/AC)04LG1 BAYEA(13/AC)05BK1 BAYEA(13/AC)05LG1	BAYEA(13/AC)08BK1 BAYEA(13/AC)08LG1	BAYEA(13/AC)10BK1 BAYEA(13/AC)10LG1	BAYEA(13/AC)10LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3	BAYEA(23/BC)15BK1 BAYEA(23/BC)15LG3
5TAMX-C03AV31DA	723/808	723/1020	765/1020	680/808	765/1063	850/1105	-	-	-	-	-	-	-	-
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE														

(a) Factory heating default setting is 430 CFM/ton

5TAMXD04AV31DA 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	290	CFM	605/747	573/565	553/306	548/NA	546/NA	290	CFM	606	574	557	551	549																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	31/48	59/58	88/62	120/NA	153/NA	CFM/ton	Watts	31	58	87	119	152																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	370	CFM	755/880	745/738	737/575	738/367	735/NA	350	CFM	720	705	695	694	691																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	50/70	85/85	121/93	160/97	197/NA	CFM/ton	Watts	43	77	111	148	184																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	400	CFM	810/929	804/797	800/650	802/478	802/231	400	CFM	810	805	800	803	802																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	58/80	97/96	136/106	176/111	216/120	CFM/ton	Watts	56	95	134	174	214																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
2.5 tons	450	CFM	900/1011	900/893	902/764	905/624	906/462	450	CFM	900	900	903	906	907																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	75/98	118/117	162/129	207/136	251/140	CFM/ton	Watts	72	115	159	204	248																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	290	CFM	742/891	729/752	722/592	721/394	720/NA	290	CFM	742	731	722	722	720																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	48/72	82/87	118/96	155/99	193/NA	CFM/ton	Watts	46	81	117	154	191																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	370	CFM	922/1055	923/942	927/820	930/690	931/546	350	CFM	877	877	876	880	880																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	80/109	124/128	170/142	215/150	260/154	CFM/ton	Watts	68	110	152	196	239																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3 tons †	400	CFM	989/1118	995/1012	1002/899	1008/779	1010/652	400	CFM	989	995	1000	1008	1008																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	95/127	143/148	193/163	242/173	290/177	CFM/ton	Watts	90	139	188	258	285																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	450	CFM	1103/1228	1117/1131	1129/1028	1137/921	1137/809	450	CFM	1102	1116	1127	1137	1138																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	125/162	181/185	238/203	294/215	346/221	CFM/ton	Watts	119	175	231	288	340																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	290	CFM	872/1009	871/890	871/761	874/620	874/457	290	CFM	871	872	871	874	875																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	70/97	111/116	154/128	197/135	240/139	CFM/ton	Watts	67	109	151	195	237																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3 tons †	370 †	CFM	1089/1214	1102/1116	1114/1013	1121/905	1122/791	350	CFM	1033	1043	1051	1059	1061																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	121/157	176/180	232/198	287/209	339/215	CFM/ton	Watts	101	152	204	257	307																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	400	CFM	1175/1298	1193/1205	1208/1107	1215/1006	1211/899	400 (a)	CFM	1171	1191	1205	1215	1212																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	147/188	208/212	270/231	329/244	382/251	CFM/ton	Watts	139	200	262	322	376																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	450	CFM	1329/1447	1353/1361	1366/1270	1363/1176	1343/1077	450	CFM	1324	1349	1364	1364	1347																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	204/253	276/279	345/299	406/313	456/321	CFM/ton	Watts	192	264	334	396	448																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3.5 tons	290	CFM	1002/1131	1009/1026	1017/914	1023/797	1024/671	290	CFM	997	1010	1016	1022	1027																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	98/130	147/152	198/167	248/177	296/182	CFM/ton	Watts	92	143	197	248	293																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	370	CFM	1270/1391	1293/1302	1308/1210	1311/1113	1297/1012	350	CFM	1196	1217	1231	1241	1234																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	181/227	249/252	316/272	377/286	429/293	CFM/ton	Watts	146	210	272	334	387																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	400	CFM	1383/1499	1407/1414	1416/1325	1406/1233	1380/1136	400	CFM	1379	1404	1415	1330	1390																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	227/278	303/305	372/325	431/340	478/348	CFM/ton	Watts	214	289	360	378	473																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3.5 tons	450	CFM	1579/1669	1583/1587	1567/1502	1474/1413	1357/1320	450	CFM	1499	1508	1586	1504	1390																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	CFM/ton	Watts	326/375	402/402	464/423	475/437	468/444	CFM/ton	Watts	268	342	460	478	472																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
† Factory Setting Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

5TAMXD05AV41DA 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			0.1	0.3	0.5	0.7	0.9														
2.5 tons	290	CFM	747/905	743/764	742/591	741/342	739/NA	290	CFM	744	741	740	738	734														
		Watts	48/77	87/94	127/102	168/106	207/NA		Watts	51	90	130	170	209														
	370	CFM	937/1072	942/956	946/823	947/655	944/458	350	CFM	889	892	894	894	890														
		Watts	80/118	129/139	179/151	227/155	273/155		Watts	76	123	169	215	259														
	400	CFM	1006/1136	1014/1027	1020/903	1022/760	1019/586	400	CFM	1006	1016	1018	1019	1016														
3 tons		Watts	95/138	148/159	201/173	253/178	302/177		Watts	103	156	209	160	308														
	450	CFM	1122/1247	1135/1146	1143/1035	1146/911	1142/768	450	CFM	1124	1135	1142	1144	1140														
		Watts	125/176	185/200	245/216	303/224	357/223		Watts	136	196	256	313	366														
	290	CFM	885/1026	889/904	891/763	892/590	889/341	290	CFM	884	887	889	889	885														
		Watts	70/106	116/125	163/136	209/139	254/143		Watts	75	121	168	214	257														
3 tons	370	CFM	1108/1233	1120/1132	1128/1019	1131/893	1128/747	350	CFM	1053	1062	1067	1069	1066														
		Watts	121/171	181/195	240/210	297/218	350/217		Watts	115	171	227	280	330														
	400	CFM	1194/1316	1208/1220	1218/1115	1221/999	1215/868	400	CFM	1196	1209	1218	1219	1212														
		Watts	147/204	212/229	276/246	337/255	393/256		Watts	160	225	289	349	403														
	450	CFM	1343/1463	1361/1374	1371/1279	1368/1175	1352/1061	450	CFM	1347	1363	1371	1366	1342														
3.5 tons †		Watts	200/272	275/300	348/320	413/331	469/334		Watts	220	295	367	430	480														
	290	CFM	1020/1149	1028/1041	1034/919	1037/779	1034/609	290	CFM	1020	1028	1033	1173	1031														
		Watts	99/142	152/164	206/178	259/183	308/182		Watts	107	160	214	327	315														
	370 †	CFM	1287/1408	1304/1317	1314/1218	1315/1110	1304/981	350	CFM	1220	1234	1243	1244	1236														
		Watts	179/245	250/272	320/291	384/301	441/303		Watts	169	236	301	362	417														
3.5 tons †	400	CFM	1395/1514	1413/1427	1421/1334	1415/1233	1369/1124	400 †	CFM	1440	1416	1421	1411	1355														
		Watts	221/299	300/328	374/348	440/361	480/364		Watts	244	322	395	458	475														
	450	CFM	1584/1687	1593/1605	1576/1518	1474/1425	1350/1326	450	CFM	1589	1592	1545	1434	1315														
		Watts	313/405	399/435	467/458	477/472	468/477		Watts	347	428	474	473	463														
	290	CFM	1156/1302	1169/1205	1178/1098	1181/981	1174/848	290	CFM	1157	1169	1177	1179	1174														
4 tons		Watts	135/197	197/222	259/239	319/248	383/249		Watts	147	209	271	330	383														
	370	CFM	1487/1618	1500/1534	1496/1445	1445/1350	1319/1248	350	CFM	1400	1416	1421	1411	1335														
		Watts	288/359	369/389	441/411	481/425	470/429		Watts	244	322	395	458	475														
	400	CFM	1616/1728	1614/1646	1543/1543	1423/1423	1301/1301	400	CFM	1615	1615	1545	1431	1313														
		Watts	363/433	443/464	475/475	472/472	463/463		Watts	363	444	474	471	462														
4 tons	450	CFM	1711/1711	1621/1621	1514/1514	1393/1393	1273/1273	450	CFM	1716	1629	1528	1411	1297														
		Watts	432/432	456/456	465/465	460/460	453/453		Watts	430	453	462	458	452														
										5TAMXD05AV41DA Minimum Heating Airflow Settings																		
										• Torque mode will reduce airflow when static is above approximately 0.35" water column.																		
										• † Factory Setting																		
										• Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.																		
										• All heating modes default to Constant CFM.																		
										• Cooling airflow values are with wet coil, no filter																		
MODEL NO.																												
5TAMXD05AV41-DA	BAYEA(13/AC) 04BK1	BAYEA(13/AC) 08BK1 BAYEA(13/AC) 08LG1	BAYEA(13/AC) 10BK1 BAYEA(13/AC) 10LG1	BAYEA(13/AC) 10LG3	BAYEA(23/BC) 15BK1	BAYEA(23/BC) 15LG3	BAYEA(23/BC) 20BK1	BAYEA(33/CC) 25BK1																				
	BAYEA(13/AC) 04LG1																											
	BAYEA(13/AC) 05BK1																											
	BAYEA(13/AC) 05LG1																											
	978/1093	978/1380	1035/1380	920/1093	1035/1438	1150/1495	1380/1610	—																				
WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE																												

- † 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

Air Flow Performance Tables

5TAMXD06AV41DA 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	290	CFM	894/1018	900/897	896/767	886/622	871/445	290	CFM	893	900	893	883	864	893	900	893	883	864
	CFM/ton	Watts	69/91	114/114	157/130	195/137	229/136	CFM/ton	Watts	72	118	159	197	230	72	118	159	197	230
	350	CFM	1067/1180	1073/1078	1072/972	1065/859	1053/738	350	CFM	1068	1073	1070	1062	1049	1068	1073	1070	1062	1049
	CFM/ton	Watts	106/132	158/160	208/180	252/192	292/194	CFM/ton	Watts	112	164	213	257	295	112	164	213	257	295
	400	CFM	1205/1314	1212/1222	1213/1128	1208/1029	1199/926	400	CFM	1207	1212	1206	1196	1196	1207	1212	1206	1196	1196
3.5 tons	CFM/ton	Watts	145/176	203/206	259/229	309/244	354/249	CFM/ton	Watts	154	212	266	315	359	154	212	266	315	359
	450	CFM	1343/1451	1352/1367	1355/1280	1353/1190	1346/1098	450	CFM	1344	1352	1354	1344	1344	1344	1352	1354	1344	1344
	CFM/ton	Watts	193/232	259/264	320/289	377/305	427/313	CFM/ton	Watts	206	270	331	387	436	206	270	331	387	436
	290	CFM	1034/1149	1041/1044	1038/934	1031/817	1018/690	290	CFM	1034	1040	1037	1028	1014	1034	1040	1037	1028	1014
	CFM/ton	Watts	98/123	149/150	197/170	240/181	279/182	CFM/ton	Watts	103	154	202	244	281	103	154	202	244	281
4 tons †	350	CFM	1228/1336	1235/1246	1236/1153	1232/1056	1224/955	350	CFM	1229	1235	1236	1230	1220	1229	1235	1236	1230	1220
	CFM/ton	Watts	152/185	212/215	268/238	319/253	365/259	CFM/ton	Watts	162	221	276	326	371	162	221	276	326	371
	400	CFM	1389/1498	1399/1415	1403/1331	1401/1244	1395/1154	400	CFM	1392	1400	1403	1400	1394	1392	1400	1403	1400	1394
	CFM/ton	Watts	212/253	280/286	343/311	402/328	455/336	CFM/ton	Watts	226	293	356	413	465	226	293	356	413	465
	450	CFM	1558/1669	1570/1592	1575/1514	1573/1434	1568/1351	450	CFM	1561	1572	1576	1574	1567	1561	1572	1576	1574	1567
4.5 tons**	CFM/ton	Watts	290/343	367/377	439/404	505/422	563/432	CFM/ton	Watts	310	386	457	521	577	310	386	457	521	577
	290	CFM	1168/1298	1175/1205	1175/1109	1170/1010	1160/905	290	CFM	1168	1176	1174	1168	1157	1168	1176	1174	1168	1157
	CFM/ton	Watts	133/170	191/200	244/223	293/237	336/242	CFM/ton	Watts	141	198	251	299	341	141	198	251	299	341
	350 †	CFM	1389/1517	1399/1436	1403/1352	1401/1266	1395/1177	350	CFM	1392	1400	1403	1400	1394	1392	1400	1403	1400	1394
	CFM/ton	Watts	212/262	280/295	343/321	402/338	455/346	CFM/ton	Watts	226	293	356	413	465	226	293	356	413	465
4.5 tons**	400	CFM	1583/1714	1595/1639	1601/1562	1600/1483	1593/1401	400 †	CFM	1586	1597	1601	1599	1591	1586	1597	1601	1599	1591
	CFM/ton	Watts	303/370	382/546	455/431	521/450	580/459	CFM/ton	Watts	325	402	474	538	595	325	402	474	538	595
	450	CFM	1790/1918	1800/184	1808/1775	1793/1701	1698/1625	450	CFM	1794	1801	1800	1766	1667	1794	1801	1800	1766	1667
	CFM/ton	Watts	429/511	515/546	594/573	663/592	660/601	CFM/ton	Watts	459	544	620	665	655	459	544	620	665	655
	290	CFM	1301/1429	1310/1344	1312/1256	1309/1165	1302/1071	290	CFM	1302	1310	1311	1309	1301	1302	1310	1311	1309	1301
4.5 tons**	CFM/ton	Watts	177/222	241/253	300/278	355/294	404/302	CFM/ton	Watts	189	252	310	355	403	189	252	310	355	403
	350	CFM	1558/1688	1570/1613	1575/1535	1575/1455	1568/1373	350	CFM	1557	1570	1575	1575	1569	1557	1570	1575	1575	1569
	CFM/ton	Watts	290/354	367/389	439/415	505/434	563/444	CFM/ton	Watts	290	367	439	505	563	290	367	439	505	563
	400	CFM	1790/1918	1800/1848	1801/1775	1793/1701	1698/1625	400	CFM	1789	1799	1801	1794	1701	1789	1799	1801	1794	1701
	CFM/ton	Watts	429/511	515/546	594/573	663/592	660/601	CFM/ton	Watts	428	515	594	663	659	428	515	594	663	659
4.5 tons**	450	CFM	2018/2018	1973/1973	1857/1857	1749/1749	1651/1651	450	CFM	2018	1975	1863	1757	1660	2018	1975	1863	1757	1660
	CFM/ton	Watts	605/605	656/656	645/645	637/637	631/631	CFM/ton	Watts	605	656	643	634	628	605	656	643	634	628

† 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

5TAMXD06AV41DA Minimum Heating Airflow Settings

MODEL NO.	BAYEA(13/AC)04BK1				BAYEA(13/AC)10BK1				BAYEA(13/AC)15BK1				BAYEA(23/BC)15LG3				BAYEA(23/BC)20BK1				BAYEA(33/CC)25BK1			
	1063 / 1188	1063 / 1500	1125 / 1500	1000 / 1188	1125 / 1500	1000 / 1188	1125 / 1563	1250 / 1625	1500 / 1750	1625 / 1813	1500 / 1750	1625 / 1813	1500 / 1750	1625 / 1813	1500 / 1750	1625 / 1813	1500 / 1750	1625 / 1813	1500 / 1750	1625 / 1813	1500 / 1750	1625 / 1813	1500 / 1750	1625 / 1813
5TAMXD06AV41DA	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE	WITHOUT HEAT PUMP / WITH HP — SEE AIR HANDLER NAMEPLATE

5TAMXD07AV51DA 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	290	CFM	1040 / 1151	1068 / 1056	1075 / 941	1066 / 799	1046 / 607	290	CFM	1039	1065	1071	1063	1045										
		Watts	94 / 119	151 / 148	203 / 168	247 / 175	283 / 165		Watts	95	151	203	247	283										
	370	CFM	1312 / 1343	1332 / 1264	1336 / 1174	1329 / 1068	1314 / 945	350	CFM	1247	1266	1270	1263	1248										
		Watts	171 / 178	236 / 210	296 / 235	349 / 250	392 / 251		Watts	150	213	270	321	363										
	400	CFM	1408 / 1496	1425 / 1426	1429 / 1346	1423 / 1256	1410 / 1154	400	CFM	1407	1423	1426	1421	1409										
4 tons		Watts	206 / 238	274 / 273	337 / 301	393 / 319	440 / 325		Watts	206	274	337	392	439										
	450	CFM	1565 / 1650	1579 / 1585	1584 / 1512	1580 / 1432	1569 / 1343	450	CFM	1564	1578	1582	1578	1569										
		Watts	274 / 312	348 / 348	416 / 378	477 / 398	529 / 407		Watts	274	348	416	476	529										
	290	CFM	1186 / 1304	1208 / 1223	1213 / 1128	1206 / 1018	1189 / 887	290	CFM	1185	1206	1210	1203	1187										
		Watts	131 / 164	192 / 196	248 / 220	297 / 234	337 / 233		Watts	131	192	248	297	337										
4 tons	370	CFM	1480 / 1514	1495 / 1444	1499 / 1365	1495 / 1277	1482 / 1177	350	CFM	1407	1423	1426	1421	1409										
		Watts	235 / 245	306 / 280	372 / 308	430 / 327	479 / 334		Watts	206	274	337	392	439										
	400	CFM	1587 / 1689	1602 / 1625	1606 / 1554	1602 / 1475	1592 / 1399	400	CFM	1587	1600	1604	1601	1592										
		Watts	285 / 332	360 / 369	429 / 399	490 / 420	543 / 430		Watts	285	360	428	490	543										
	450	CFM	1770 / 1873	1784 / 1813	1789 / 1747	1788 / 1675	1782 / 1597	450	CFM	1770	1783	1788	1788	1782										
4.5 tons **†		Watts	386 / 443	468 / 481	543 / 512	612 / 534	671 / 546		Watts	385	467	543	611	671										
	290	CFM	1322 / 1431	1340 / 1358	1345 / 1274	1338 / 1179	1323 / 1069	290	CFM	1321	1338	1342	1336	1322										
		Watts	174 / 211	240 / 245	300 / 271	353 / 288	397 / 292		Watts	174	240	300	352	396										
	370 †	CFM	1646 / 1667	1660 / 1602	1665 / 1530	1662 / 1451	1653 / 1363	350	CFM	1564	1578	1582	1578	1569										
		Watts	315 / 320	392 / 357	463 / 386	527 / 407	582 / 417		Watts	274	348	416	476	529										
5 tons	400	CFM	1770 / 1873	1784 / 1813	1789 / 1747	1788 / 1675	1781 / 1597	400 †	CFM	1770	1783	1788	1788	1782										
		Watts	386 / 443	468 / 481	543 / 512	612 / 534	671 / 546		Watts	385	467	543	611	671										
	450	CFM	1989 / 2099	2004 / 2042	2012 / 1980	2013 / 1913	2009 / 1842	450	CFM	1989	2003	2011	2014	2011										
		Watts	535 / 612	627 / 650	712 / 681	788 / 703	855 / 716		Watts	534	626	711	788	856										
	290	CFM	1452 / 1557	1469 / 1489	1473 / 1413	1468 / 1327	1455 / 1231	290	CFM	1452	1467	1471	1466	1454										
5 tons		Watts	224 / 265	294 / 301	358 / 329	415 / 348	463 / 356		Watts	224	294	358	415	463										
	370	CFM	1817 / 1826	1831 / 1765	1837 / 1698	1837 / 1624	1831 / 1544	350	CFM	1723	1736	1741	1740	1734										
		Watts	415 / 451	499 / 451	576 / 481	647 / 503	708 / 515		Watts	357	437	511	578	636										
	400	CFM	1964 / 2073	1978 / 2015	1986 / 1953	1987 / 1886	1983 / 1814	400	CFM	1964	1978	1985	1988	1985										
		Watts	516 / 590	607 / 629	690 / 660	766 / 682	832 / 695		Watts	515	606	690	766	833										
5 tons	450	CFM	2231 / 2347	2245 / 2292	2252 / 2233	2252 / 2171	2185 / 2104	450	CFM	2232	2245	2252	2252	2186										
		Watts	741 / 842	842 / 879	934 / 908	1015 / 930	1024 / 941		Watts	741	842	934	1016	1023										
† 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																							
	5TAMXD07AV51DA MINIMUM HEATING AIRFLOW SETTINGS																							
	MODEL NO.	BAYEA(13/AC)04BK1	BAYEA(13/AC)08BK1	BAYEA(13/AC)10BK1	BAYEA(13/AC)10LG1	BAYEA(13/AC)10LG3	BAYEA(23/BC)15BK1	BAYEA(23/BC)15LG3	BAYEA(23/BC)20BK1	BAYEA(23/BC)25BK1														
		BAYEA(13/AC)04LG1	BAYEA(13/AC)08LG1	BAYEA(13/AC)10LG1	BAYEA(13/AC)10LG3	BAYEA(13/AC)10LG3	BAYEA(23/BC)15BK1	BAYEA(23/BC)15LG3	BAYEA(23/BC)20BK1	BAYEA(23/BC)25BK1														
5TAMXD07AV51DA	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																								

Heater Attribute Data

Note: Heater size will be announced when using the resistor that is being provided with the BAYEA heater. Heater can also be configured in the UX360 User Interface or Diagnostics Mobile App.

5TAMXB02AV21DA											
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	-	-	3.9 **	5	15	-	-	3.9 **	5	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYEA(13/AC)05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYEA(13/AC)10++1 ^(a)	1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30

Note: ** Motor Amps

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

5TAMXC03AV31DA											
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	-	-	3.9 **	5	15	-	-	3.9 **	5	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYEA(13/AC)05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYEA(13/AC)10++1	1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	34	35	7.20	24600	20.0	29	30
BAYEA(23/BC)15LG3	1-3 PH	14.40	42000	34.6	48	50	10.80	36900	30.0	42	45
BAYEA(23/BC)15BK1 - Circuit 1 ^(a) BAYEA(23/BC)15BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
		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

5TAMXD04AV31DA											
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	-	-	3.9 **	5	15	-	-	3.9 **	5	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYEA(13/AC)05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYEA(13/AC)10++1	1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30
BAYEA(23/BC)15LG3	1-3 PH	14.40	42000	34.6	48	50	10.80	36900	30.0	42	45
BAYEA(23/BC)15BK1 - Circuit 1 (a) BAYEA(23/BC) 15BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEA(23/BC)20BK1 - Circuit 1 BAYEA(23/BC) 20BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
		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

5TAMXD05AV41DA											
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	-	-	3.9 **	5	15	-	-	3.9 **	5	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYEA(13/AC)05++1	1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYEA(13/AC)10++1	1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30
BAYEA(23/BC)15LG3	1-3 PH	14.40	42000	34.6	48	50	10.80	36900	30.0	42	45
BAYEA(23/BC)15BK1 - Circuit 1 (a) BAYEA(23/BC) 15BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEA(23/BC)20BK1 - Circuit 1 BAYEA(23/BC) 20BK1 - Circuit 2	2	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
		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

5TAMXD06AV41DA											
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	-	-	5.7 **	7	15	-	-	5.7 **	7	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	27	30	2.88	9800	13.8	24	25
BAYEA(13/AC)05++1	1	4.80	16400	20.0	32	35	3.60	12300	17.3	29	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	47	50	5.76	19700	27.7	42	45
BAYEA(13/AC)10++1	1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	35	40	7.20	24600	20.0	31	35
BAYEA(23/BC)15LG3	1-3 PH	14.40	42000	34.6	50	60	10.80	36900	30.0	44	45
BAYEA(23/BC)15BK1 - Circuit 1 (a) BAYEA(23/BC)15BK1 - Circuit 2	2	9.60	32800	40.0	57	35	7.20	24600	34.6	50	50
		4.80	16400	20.0	25	50	3.60	12300	17.3	22	25
BAYEA(23/BC)20BK1 - Circuit 1 BAYEA(23/BC)20BK1 - Circuit 2	2	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYEA(33/CC)25BK1 — Circuit 1 BAYEA(33/CC)25BK1 — Circuit 2 BAYEA(33/CC)25BK1 — Circuit 3	3	9.60	32800	40.0	57	60	7.20	24600	34.6	50	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: ** Motor Amps

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

5TAMXD07AV51DA											
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	-	-	6.9 **	9	15	-	-	6.9 **	9	15
BAYEA(13/AC)04++1	1	3.84	13100	16.0	29	30	2.88	9800	13.8	26	30
BAYEA(13/AC)05++1	1	4.80	16400	20.0	34	35	3.60	12300	17.3	30	30
BAYEA(13/AC)08++1	1	7.68	26200	32.0	49	50	5.76	19700	27.7	43	45
BAYEA(13/AC)10++1	1	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
BAYEA(13/AC)10LG3	1-3 PH	9.60	32800	23.1	37	40	7.20	24600	20.0	33	35
BAYEA(23/BC)15LG3	1-3 PH	14.40	42000	34.6	51	60	10.80	36900	30.0	45	45
BAYEA(23/BC)15BK1 - Circuit 1 (a) BAYEA(23/BC)15BK1 - Circuit 2	2	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYEA(23/BC)20BK1 - Circuit 1 BAYEA(23/BC)20BK1 - Circuit 2	2	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYEA(33/CC)25BK1 (b) - Circuit 1 BAYEA(33/CC)25BK1 - Circuit 2 BAYEA(33/CC)25BK1 - Circuit 3	3	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
		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: ** Motor Amps

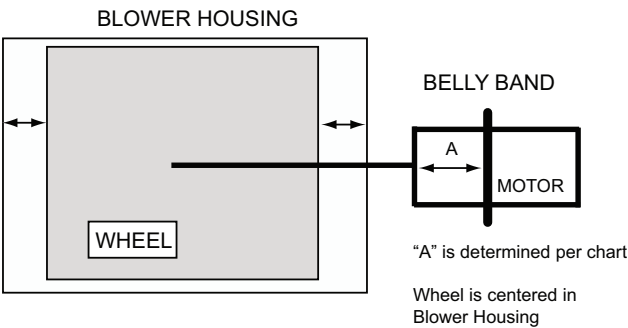
(a) MCA and MOP for circuit 1 contains the motor amps

(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.

Distance from Belly Band to Shaft Face of Motor for Minimum Vibration



MODEL	DIM " A "
5TAMXB02AV21DA	2-3/8
5TAMXC03AV31DA	2-3/8
5TAMXD04AV31DA	2-3/8
5TAMXD05AV41DA	2-3/8
5TAMXD06AV41DA	2-3/8
5TAMXD07AV51DA	2-3/8

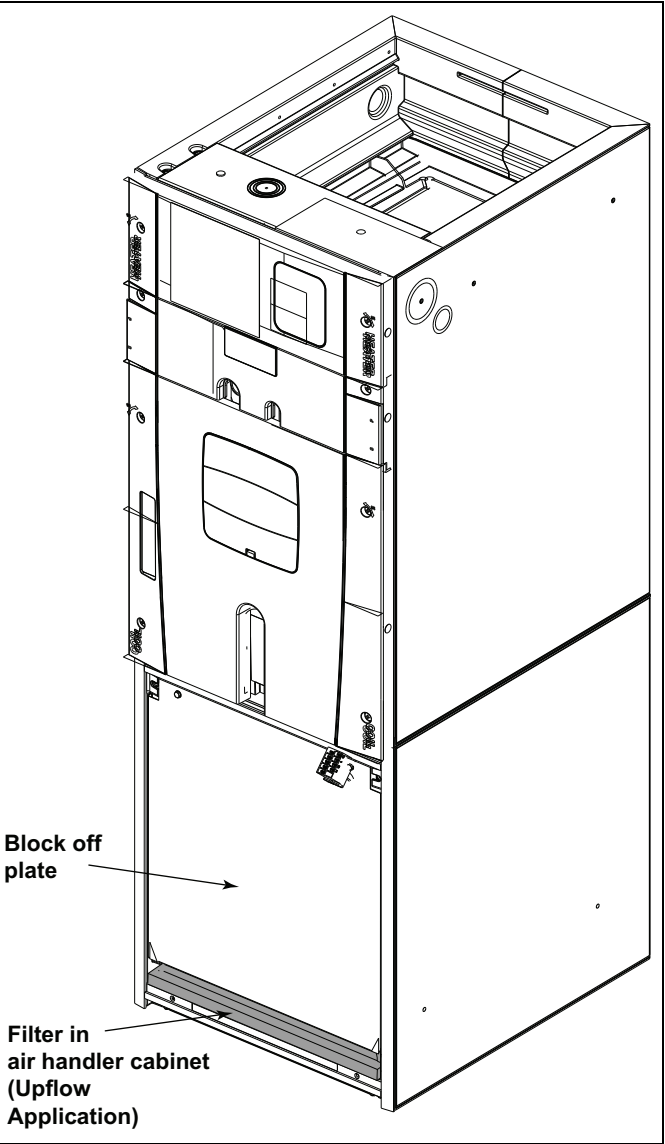
Filters

Table 30. Filter Considerations

- A filter must be installed within the system.
- A filter channel is provided in the unit at the bottom of the Blower/ Filter compartment.
- For customer ease of filter maintenance, it is recommended that a properly sized remote filter grill(s) be installed for units that are difficult to access. Airflow should not exceed the maximum rated velocity of the filter being used.

Table 31. Filter Sizes

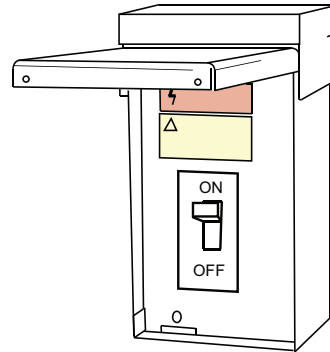
Cabinet Width	17.5"	21.0"	23.5"
Filter Size	16 x 20	20 x 20	22 x 20



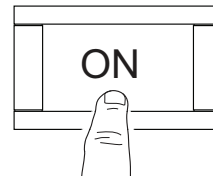
System Start Up

1. Make sure all panels are securely in place and that all wiring has been properly dressed and secured.

2. Turn on electrical power disconnect(s) to apply power to the indoor and outdoor units.



3. Set the system thermostat to ON.



Fault Reporting

The Air Handler Control (AHC) will show active faults and store historical faults in 24 volt mode. In 24 volt mode, the AHC will report active faults continuously and will report the last four faults stored after a power cycle of the unit. Refer to the LED flash code or Diagnostics Mobile App for fault code identification. In Link Communicating mode, faults will report to the UX360 User Interface Service Menu and Diagnostics Mobile App.

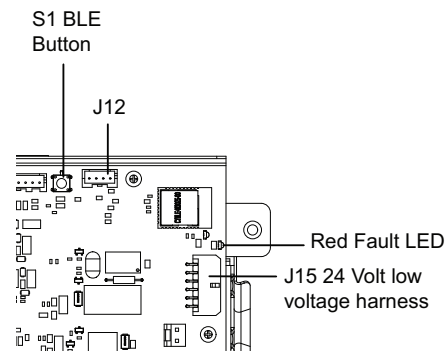


Table 32. RED LED Fault Codes

Flash Code	Alarm Group	Alarm
2	Equipment Missing, Mismatch or Configuration Issue	No Model Number, Bad Model Number, No Valid Configuration
3	Blower Issue	Blower Communication, Low or No Airflow, Blower Motor Power High, Blower Motor Mismatch
4	EEV Issue	Coil is shorted or open, Valve Stuck, ET, GT, Low SH, High SH
5	Sensor Issue	SAT Sensor out of range, RA Static Pressure Sensor out of range
6	Indoor Heat Issue	CFG1–Electric Heat not detected, CFG2–Electric Heat not configured
7	External Switch	Switch 1 or Switch 2
8	Condensate Issue	
9	Frost Issue	

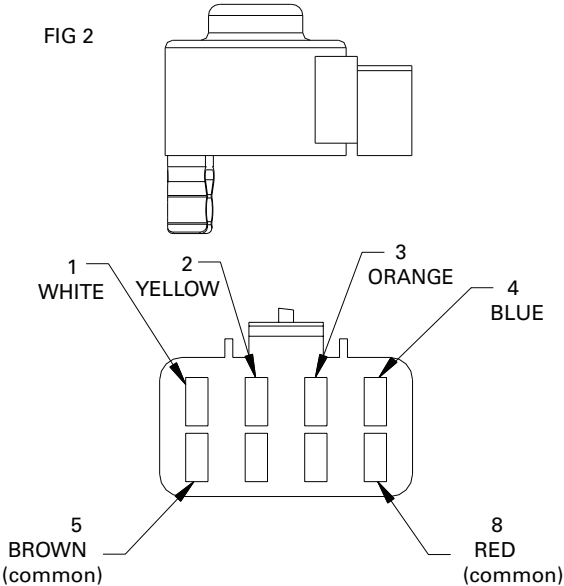
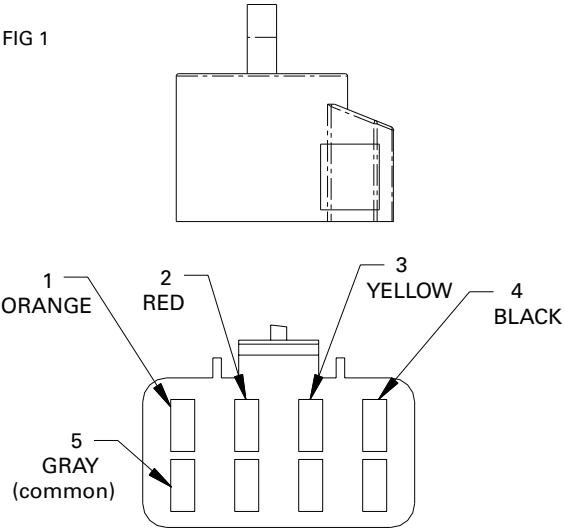
Stepper Motor Tables

— 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

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



Unit Test Options

Table 33. 24 Volt Mode:

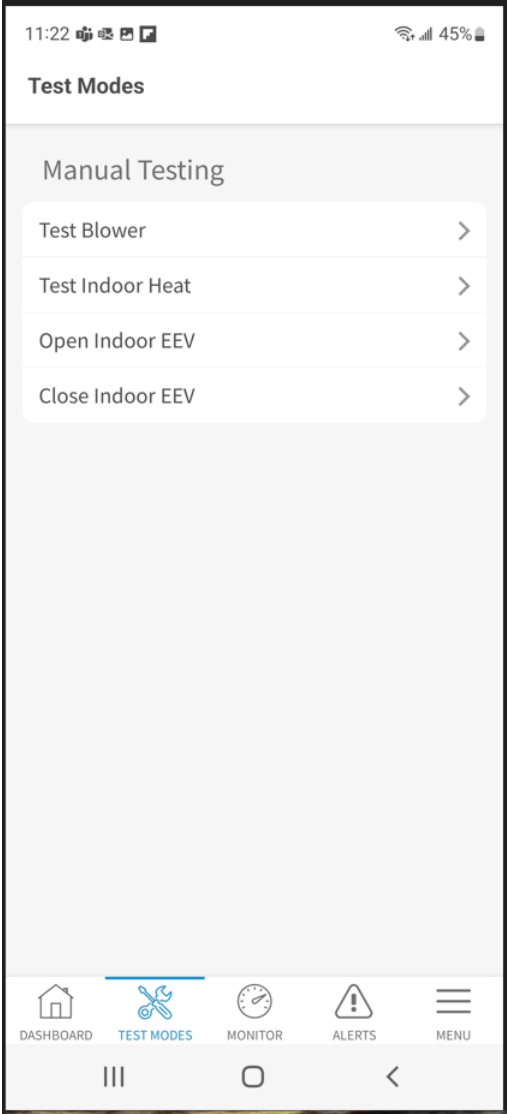
<p>Internal test can only be triggered using the Diagnostic Mobile App. There is not a local way to run any test mode manually. Tests available from the Diagnostics Mobile App are:</p> <p>The monitor menu in the Diagnostic Mobile App will show important information while in test modes that prove the test is successful.</p> <p>Test Blower allows the user to select a specific airflow to run the blower at. It is selectable from a slider and is dynamic and will speed up or slow down as the user moves the slider.</p> <p>Test Indoor Heat will test the different stages of indoor heat to prove they are working.</p> <p>Open Indoor EEV test will open the TAMX EEV fully for 30 seconds. This can be verified by watching the monitor screens during this test.</p> <p>Close Indoor EEV test will close the TAMX EEV completely for 90 seconds. If the system is running, you will see the refrigerant pressures react to a closed valve and will likely fault on low pressure.</p> <p>All tests can be stopped during the test and do not need to finish.</p>	
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Table 34. Link Communicating Mode:

All test modes can be run from the User Interface (UX360) or the Diagnostics Mobile App.
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ET / GT and Supply Air Temperature Sensor

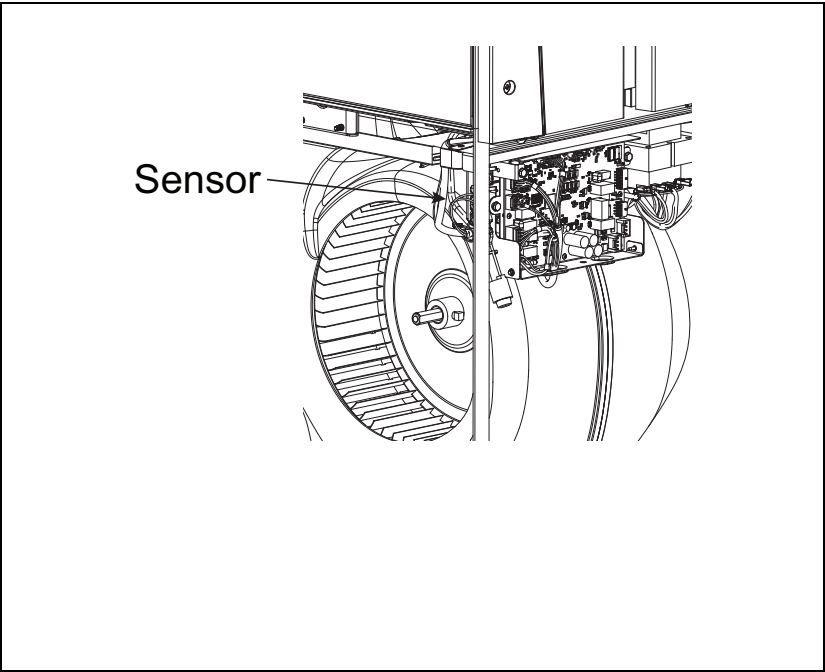
Table 35. Thermal Resistance and Voltage Table

TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS) *	Volts DC at plug J3 EVAP TEMP (ET) Orange to Orange GAS TEMP (GT) Black to Black	TEMP F	TEMP C	THERMISTOR RESISTANCE (OHMS) *	Volts DC at plug J3 EVAP TEMP (ET) Orange to Orange GAS TEMP (GT) Black to Black	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	-6.67	45075.79	1.89	64	17.78	13476.21	1.17	108	42.22	4752.65	0.50
21	-6.11	43763.76	1.88	65	18.33	13138.29	1.15	109	42.78	4649.14	0.49
22	-5.56	42494.36	1.88	66	18.89	12809.93	1.13	110	43.33	4548.19	0.48
23	-5.00	41266.06	1.87	67	19.44	12490.82	1.11	111	43.89	4449.73	0.47
24	-4.44	40077.41	1.86	68	20.00	12180.67	1.09	112	44.44	4353.70	0.46
25	-3.89	38926.99	1.85	69	20.56	11878.94	1.07	113	45.00	4260.02	0.45
26	-3.33	37813.46	1.84	70	21.11	11585.67	1.06	114	45.56	4168.63	0.44
27	-2.78	36735.53	1.83	71	21.67	11300.63	1.04	115	46.11	4079.48	0.43
28	-2.22	35691.94	1.82	72	22.22	11023.53	1.02	116	46.67	3992.49	0.42
29	-1.67	34681.49	1.81	73	22.78	10754.14	1.00	117	47.00	3907.61	0.41
30	-1.11	33703.02	1.79	74	23.33	10492.21	0.98	118	47.88	3824.78	0.40
31	-0.56	32755.43	1.78	75	23.89	10237.51	0.96	119	48.33	3743.96	0.40
32	0.00	31837.65	1.77	76	24.44	9989.83	0.95	120	48.89	3665.67	0.39
33	0.56	30948.64	1.75	77	25.00	9748.93	0.93	121	49.44	3588.08	0.38
34	1.11	30087.41	1.74	78	25.56	9514.63	0.91	122	50.00	3512.92	0.37
35	1.67	29253.02	1.72	79	26.11	9287.72	0.89	123	50.56	3439.56	0.36
36	2.22	28444.53	1.71	80	26.67	9064.99	0.88	124	51.11	3367.95	0.36
37	2.78	27661.07	1.69	81	27.22	8849.27	0.86	125	51.67	3298.03	0.35
38	3.33	26901.79	1.67	82	27.78	8639.38	0.84	126	52.22	3229.76	0.34
39	3.89	26165.86	1.66	83	28.33	8435.31	0.83	127	52.78	3163.10	0.34
40	4.44	25452.49	1.64	84	28.89	8236.36	0.81	128	53.33	3098.01	0.33
41	5.00	24760.93	1.62	85	29.44	8042.90	0.80	129	53.89	3031.44	0.32
42	5.56	24090.44	1.60	86	30.00	7854.60	0.78	130	54.44	2972.36	0.31
43	6.11	23440.31	1.58	87	30.56	7671.30	0.77	131	55.00	2911.73	0.31
44	6.67	22809.87	1.57	88	31.11	7492.86	0.75	132	55.56	2852.50	0.30
45	7.22	22198.45	1.55	89	31.67	7319.12	0.74	133	56.11	2794.65	0.30
46	7.78	21605.43	1.53	90	32.22	7149.96	0.72	134	56.67	2738.13	0.29
47	8.33	21030.19	1.51	91	32.78	6985.24	0.71	135	57.22	2682.92	0.28
48	8.89	20472.15	1.49	92	33.33	6824.82	0.69	136	57.78	2928.98	0.28
49	9.44	19930.75	1.47	93	33.89	6668.58	0.68	137	58.33	2576.27	0.27
50	10.00	19405.43	1.45	94	34.44	6516.41	0.67	138	58.89	2524.77	0.27
51	10.56	18895.66	1.43	95	35.00	6368.17	0.65	139	59.44	2474.44	0.26
52	11.11	18400.95	1.41	96	35.56	6223.77	0.64	140	60.00	2425.25	0.26
53	11.67	17920.80	1.39	97	36.11	6083.08	0.63	141	60.56	2377.18	0.25
54	12.22	17454.74	1.37	98	36.67	5946.01	0.61	142	61.11	2330.20	0.25
55	12.78	17002.31	1.35	99	37.22	5812.44	0.60	143	61.67	2284.27	0.24
56	13.33	16563.08	1.33	100	37.78	5682.28	0.59	144	62.22	2239.38	0.24
57	13.89	16136.61	1.31	101	38.33	5555.43	0.58	145	62.78	2195.49	0.23
58	14.44	15622.51	1.29	102	38.89	5431.80	0.56	146	63.33	2152.59	0.23
59	15.00	15320.36	1.27	103	39.44	5311.29	0.55	147	63.89	2110.64	0.22
60	15.56	41929.80	1.25	104	40.00	5193.82	0.54	148	64.44	2069.63	0.22
61	16.11	14550.46	1.23	105	40.56	5079.31	0.53	149	65.00	2029.52	0.21
62	16.67	14181.97	1.21	106	41.11	4967.66	0.52	150	65.56	1990.31	—
63	17.22	13824.00	1.19	107	41.67	4858.80	0.51	Values should be within +/- 5%			

Return Air Temperature Sensor

Table 36. Thermal Resistance and Voltage Table

TEMP °F	TEMP °C	THERMISTOR RESISTANCE (OHMS)	Volts DC at J13 pins 1&2 (pin to pin)
40	4.4	25452	1.85
45	7.2	22198	1.70
50	10.0	19405	1.55
55	12.8	17002	1.41
60	15.6	14930	1.28
65	18.3	13138	1.17
70	21.1	11586	1.06
75	23.9	10238	0.96
80	26.7	9065	0.87
85	29.4	8043	0.78
90	32.2	7150	0.71
95	35.0	6368	0.64
100	37.8	5682	0.58
105	40.6	5079	0.53
110	43.3	4548	0.48
115	46.1	4079	0.43
120	48.9	3665	0.39
125	51.7	3298	0.35



Sequence of Operation

5TAMX can be used in either Link Communicating mode or 24 volt mode. In Link Communicating mode, all configurations are made by using the configuration menu in the User Interface (UX360) or from the Diagnostic Mobile App. In 24 volt mode, basic operation is configured from the factory with no defaults for accessories. All configurations for blower delays, accessories etc., need accomplished using the Diagnostic Mobile App.

Abbreviations

- AHC = Air Handler Control
- EEV = Electronic Expansion Valve

Note: When in communicating mode, the system controller (SC360) controls indoor airflow and EEV starting position.

Note: Use variable speed outdoor Sequence of Operation in conjunction with the 5TAMX Sequence of Operation.

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.

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. When a fan request is received from the thermostat, the AHC sends a command to the serial communicating blower motor to run. Airflow can be adjusted through the thermostat.
2. Humidity Control – When enabled at the thermostat, this feature will disable any blower off delays and disable continuous fan mode when the humidity is above the dehumidification set point. This will help prevent coil condensation from being evaporated back into the air stream.

Cooling Mode - 24 Volt Mode

Cooling Mode

1. When a request for 1st stage cooling is received, the AHC sends a command to the serial communicating blower motor to run at 1st stage cooling airflow. (Delay profiles found in the UX360 User Interface or Diagnostics Mobile App may change blower motor timing and actual airflow demand)

2. The AHC will receive input from the two temperature sensors and start to control 1st stage superheat.
3. When a request for 2nd stage cooling is received, the AHC sends a command to the serial communicating blower motor to run at 100 % cooling airflow.
4. The AHC will now control superheat for 2nd stage.
5. When a request for cooling is removed, the AHC will turn off the blower motor after any user selected fan-off delays have expired.

Note: Delay profiles found in the UX360 User Interface or Diagnostics Mobile App may change blower motor timing and actual airflow demand.

Heat pump (compressor only) - 24 Volt Mode

Heat pump (compressor only)

1. When a request for 1st stage heat is received, the AHC sends a command to the serial communicating blower motor to run at 1st stage heating airflow.
2. The AHC will drive the EEV to the heating position and refrigerant will flow in the reverse cycle.
3. When a request for 2nd stage mechanical heat is received, the AHC sends a command to the serial communicating blower motor to run at 100 % heating airflow.
4. When a request for heat pump is removed, the AHC will turn off the blower motor after any user selected fan-off delays have expired.

Note: Delay profiles found in the UX360 User Interface or Diagnostics Mobile App may change blower motor timing and actual airflow demand.

Electric Heat

1. When a request for electric heat is received, the AHC will energize the on board 24 volt relays per the amount of heat requested from the thermostat and the size of the heater installed.
2. The AHC sends a command to the serial communicating blower motor to run proper airflow and close the blower interlock relay on the AHC.

Hydronic Heat

1. When a request for hydronic heat is received, the AHC will energize the on board W1 relay.
2. The AHC sends a command to the serial communicating blower motor to run at the requested CFM.

Defrost

1. The OD unit will initiate defrost and send a message to the AHC.

2. The AHC will communicate to the EEV that the OD is in defrost and the EEV will start to control the correct superheat.
3. Electric or hydronic heat will be energized to help temper the air.

Freeze Protection

1. The AHC control has the ability to sense when the indoor coil is beginning to ice. If this event should occur, the AHC will send a message to de-energize the OD unit.
2. The indoor blower motor will continue running to aid in defrosting the coil.
3. After 5 minutes, the OD will be turned back on.

5TAMX has the ability to use the Diagnostics Mobile App to access internal features. The Diagnostics Mobile App connects to the unit through a Bluetooth Low Energy (BLE) connection using an onboard radio which talks to a app that is loaded to the technician's smart phone or tablet device.

The Diagnostics Mobile App can be found in the device app store when searching Trane Diagnostic or American Standard Diagnostics or by scanning a QR code that is located on the inside of the blower door.

24 volt mode:

Diagnostics Mobile App is available to read fault codes and to monitor live internal operation. Diagnostics Mobile App is necessary to configure accessories and external switches. If you choose to configure blower delays or to change CFM/ton etc., this will need done from the Diagnostics Mobile App.

Replacement Air Handler Control boards are generic and need to be configured. The Diagnostics Mobile App is the easiest way to accomplish this by simply choosing the model number of your unit in the configuration menu. The unit will then run with the correct blower speeds and EEV control etc. As a backup- there is a button press method for programming the unit size. This information is included in this units Service Facts and in the Installation Guide for the replacement Air Handler Control board. For 2 stage outdoor units, 1st stage airflow will be 70% of maximum airflow. Unit comes defaulted for HP operations and can be changed to AC by moving dipswitch #1 from OFF to ON. All other adjustments/ configurations need completed using the configuration menu in the Diagnostics Mobile App.

The BLE Radio will be on continuously until 24 hours after the user setup wizard has been completed inside the Diagnostics Mobile App. To turn the radio back on, simply push the S1 switch 1 time and is located on the bottom of the AHC. It will stay on for 24 hours and then automatically turn off.

Link Communicating Mode:

The BLE radio on the Air Handler Control board is 1 of 3 radios in the complete system and is used as an access point for the Diagnostics Mobile App. The Diagnostics Mobile App will continually monitor which radio provides the best signal strength and automatically switch to that stronger signal live. In communicating mode, the Diagnostics Mobile App Monitor Menu will show complete system operation. Diagnostics Mobile App can be used to configure accessories and external switches as well as run test modes, read active and historical faults and configure several unit parameters.

Checkout Procedures

The final phase of the installation is the system Checkout Procedures. The following list represents the most common items covered in a Checkout Procedure. Confirm all requirements in this document have been met.

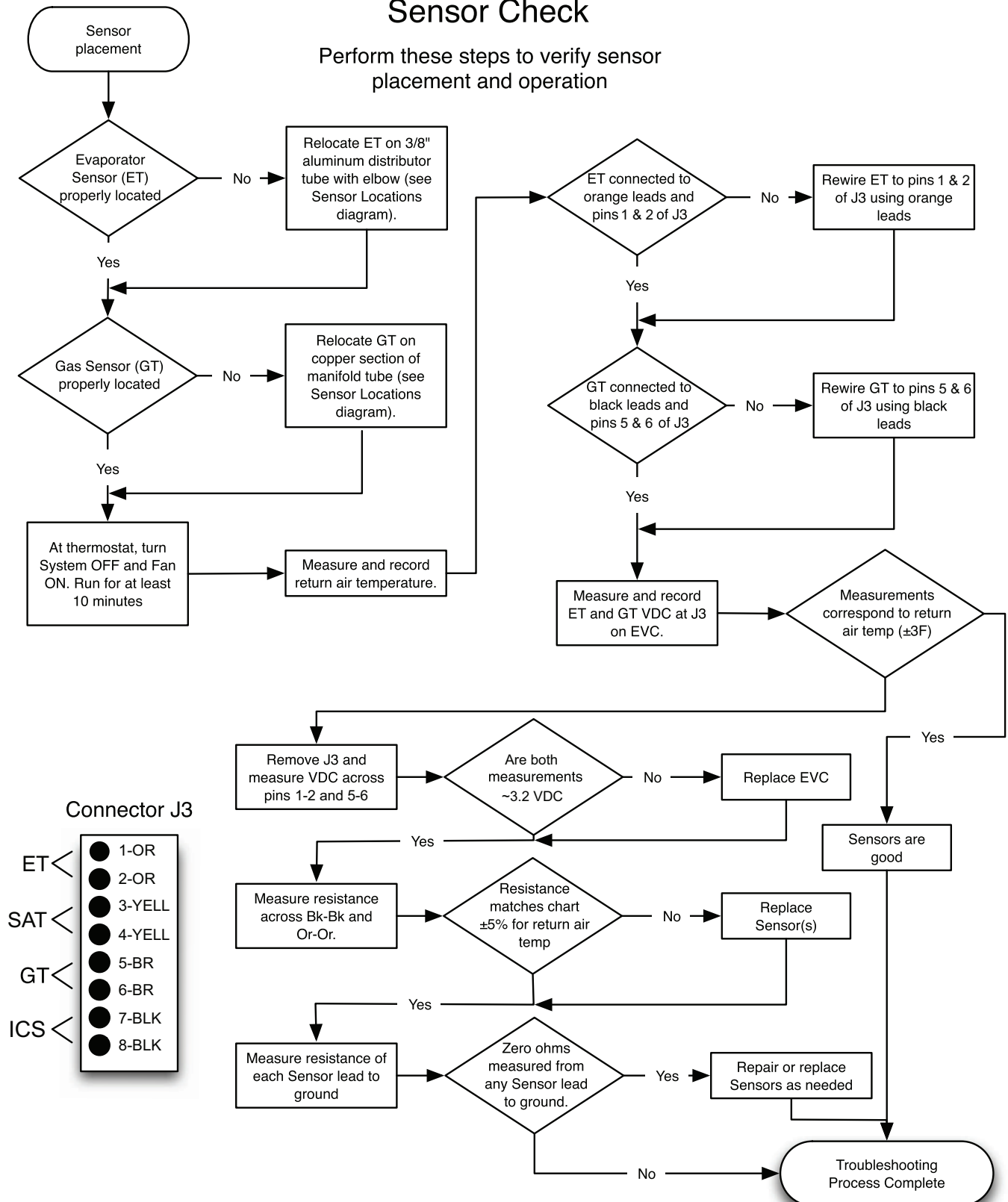
<ul style="list-style-type: none"><input type="checkbox"/> All wiring connections are tight and properly secured.<input type="checkbox"/> Voltage and running current are within limits.<input type="checkbox"/> Heater size resistor installed in the electric heat harness if used.<input type="checkbox"/> All refrigerant lines (internal and external to equipment) are isolated, secure, and not in direct contact with each other or structure.<input type="checkbox"/> All braze connections have been checked for leaks. A vacuum of 350 microns provides confirmation that the refrigeration system is leak free and dry.<input type="checkbox"/> Final unit inspection to confirm factory tubing has not shifted during shipment. Adjust tubing if necessary so tubes do not rub against each other or any component when unit runs.<input type="checkbox"/> Ductwork is sealed and insulated.<input type="checkbox"/> All drain lines are clear with joints properly sealed. Pour water into drain pan to confirm proper drainage.	<ul style="list-style-type: none"><input type="checkbox"/> Supply registers and return grilles are open, unobstructed, and air filter is installed.<input type="checkbox"/> Indoor blower and outdoor fan are operating smoothly and without obstruction.<input type="checkbox"/> Indoor blower motor set on correct speed setting to deliver required CFM.<input type="checkbox"/> Cover panels are in place and properly tightened.<input type="checkbox"/> For gas heating systems, manifold pressure has been checked and all gas line connections are tight and leak free.<input type="checkbox"/> For gas heating systems, flue gas is properly vented.<input type="checkbox"/> System functions safely and properly in all modes.<input type="checkbox"/> Owner has been instructed on use of system and given manual.
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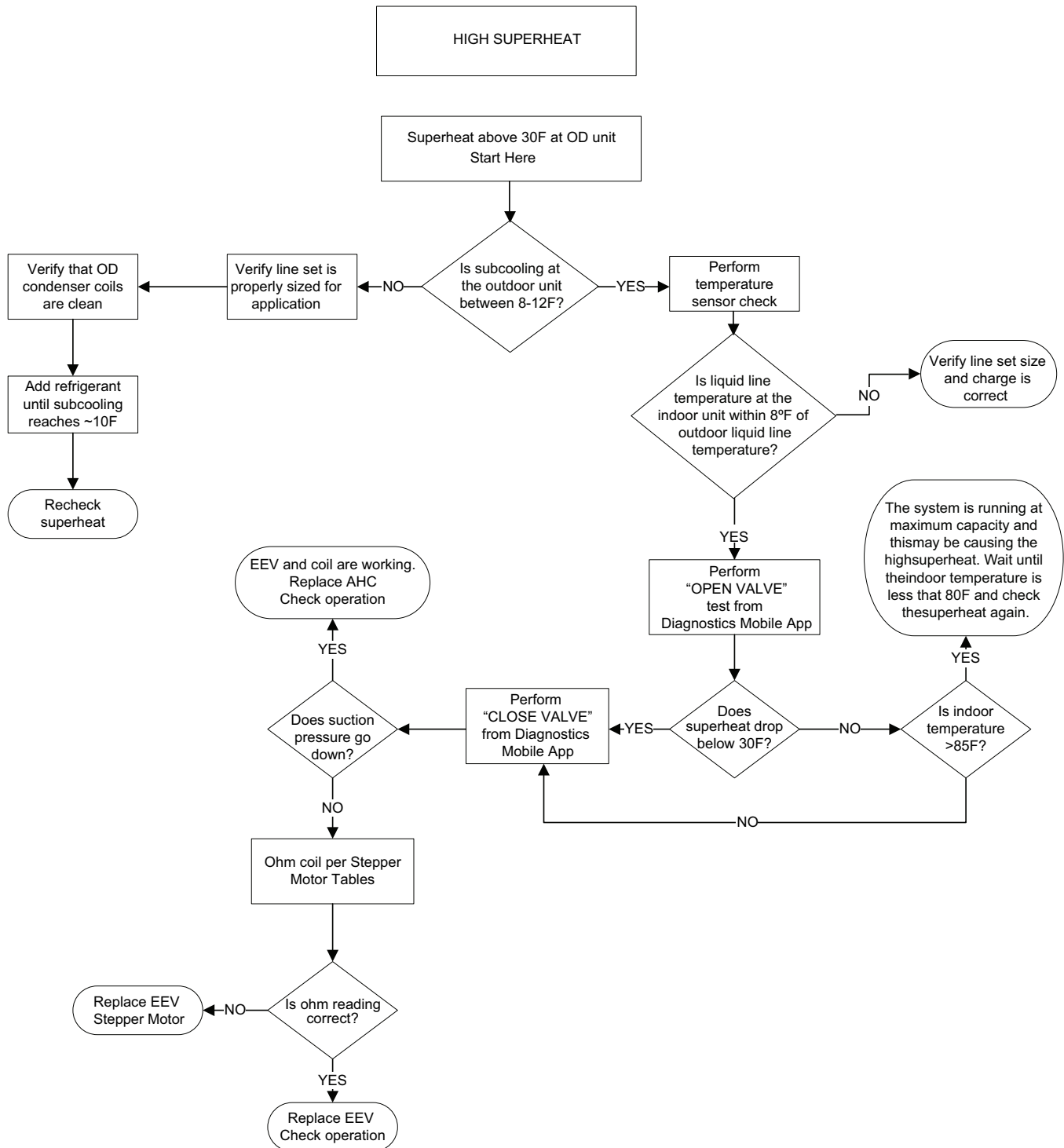
This product may be covered by one or more of the following patents and their foreign equivalents: 5621888, 5901156, 6208263, 6353376, and 6448901. Other patents are pending. Made under license.

Troubleshooting

Sensor Check

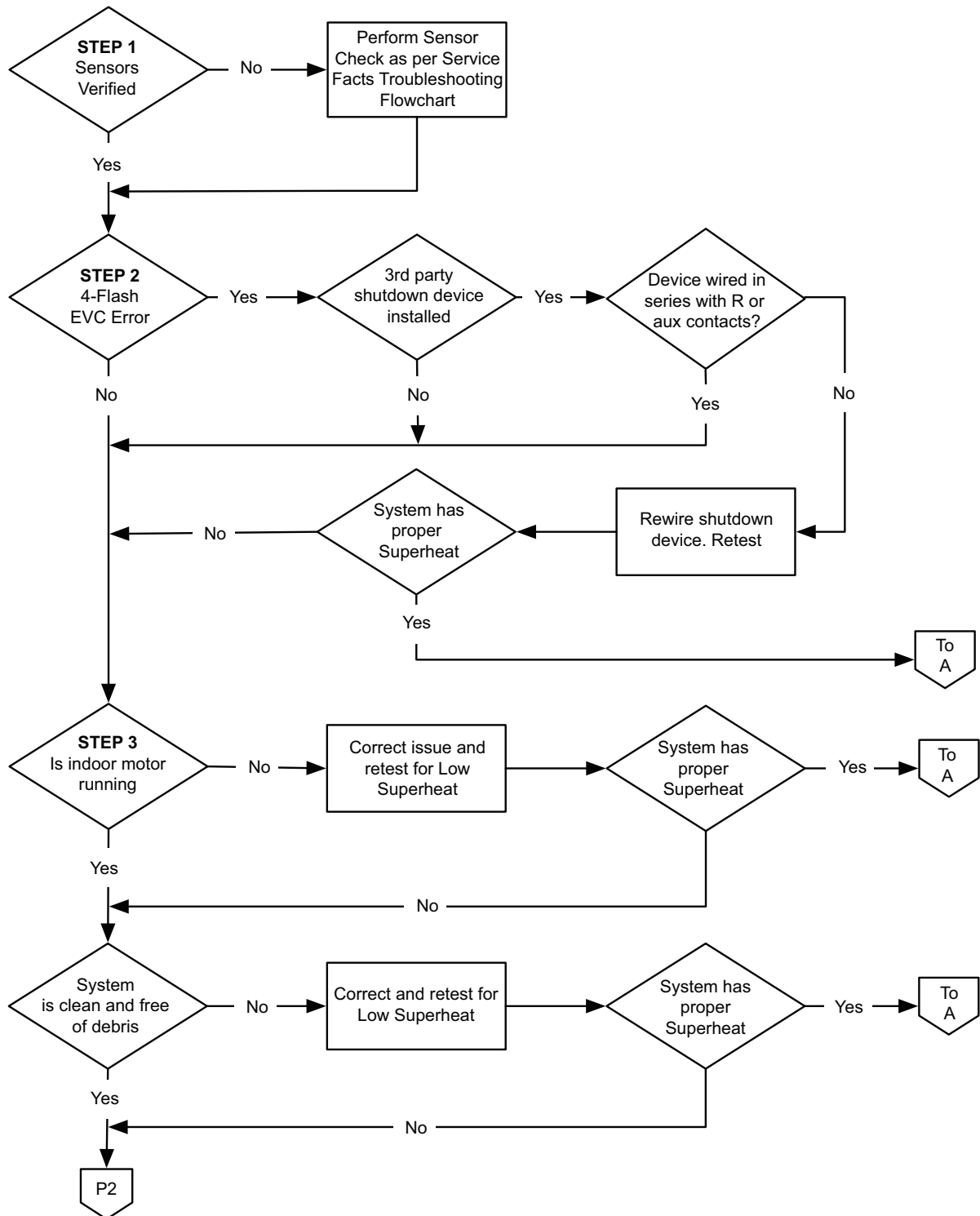
Perform these steps to verify sensor placement and operation



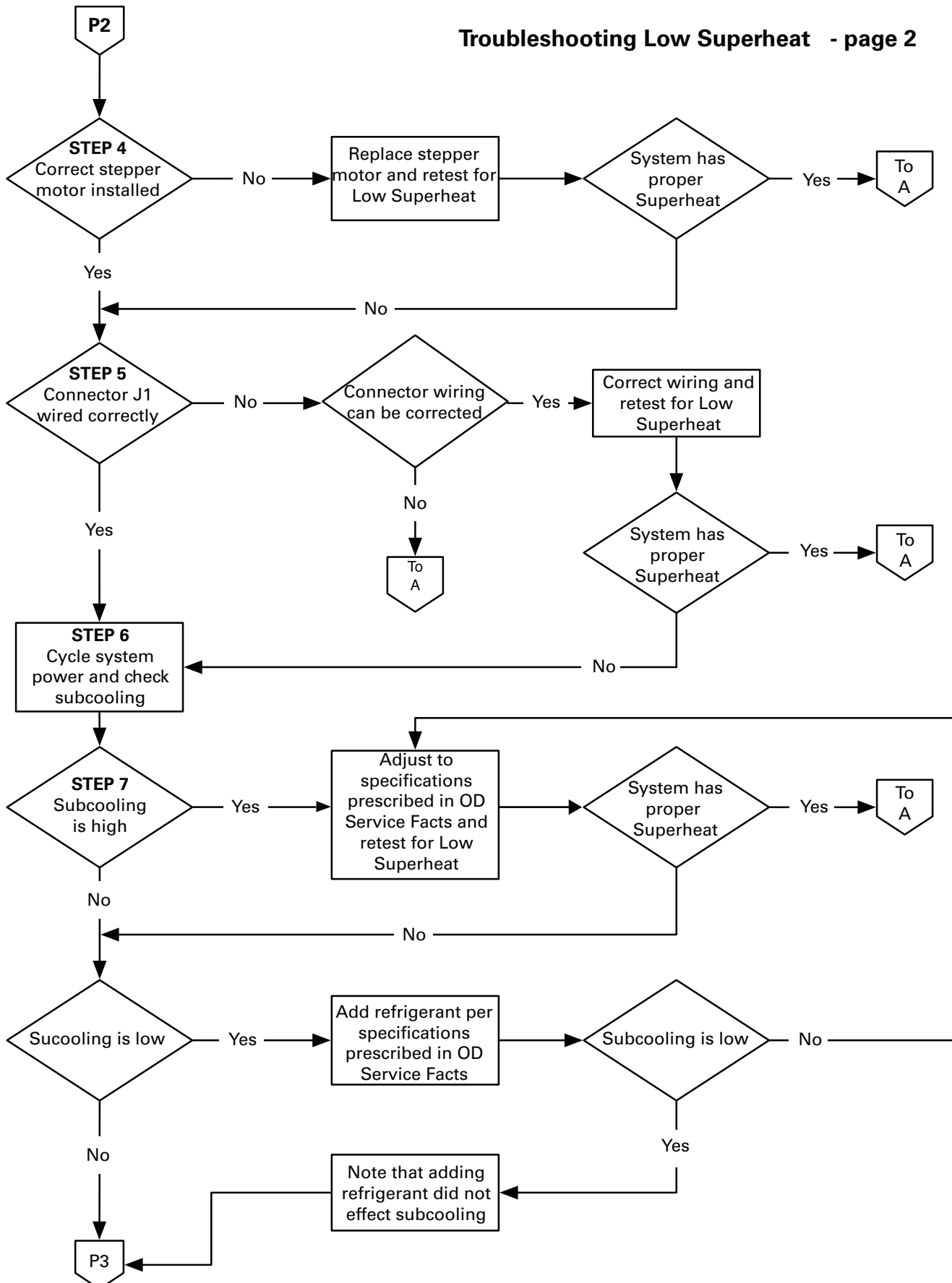


Troubleshooting Low Superheat

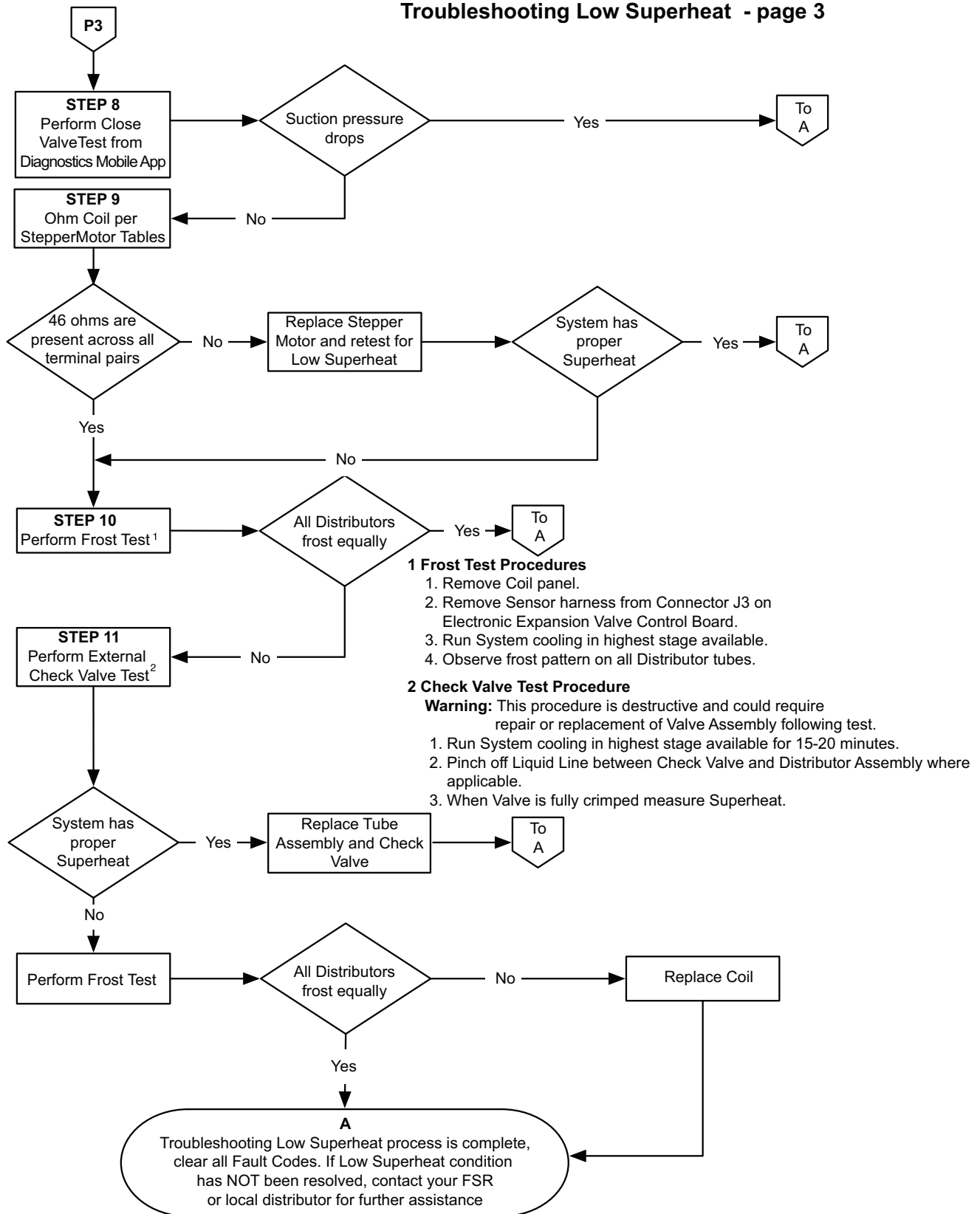
Perform these steps if Superheat is less than 3°F



Troubleshooting Low Superheat - page 2



Troubleshooting Low Superheat - page 3



Notices

FCC Notice

Contains FCC ID: WAP3025

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- *Reorient or relocate the receiving antenna*
- *Increase the separation between the equipment and receiver*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected*
- *Consult the dealer or an experienced radio/TV technician for help*

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC Notice

Contains IC ID: 7922A-3025

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTES:

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com.



The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

18-GJ96D1-1C-EN 07 Nov 2024

Supersedes 18-GJ96D1-1B-EN (November 2024)

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