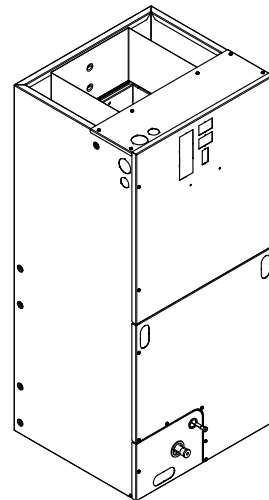


# Installer's Guide

## Communicating / 24 Volt Control Convertible Air Handlers 2 – 5 Ton

TEM8A0B24V21DA  
TEM8A0B30V31DA  
TEM8A0C36V31DA  
TEM8A0C42V41DA  
TEM8A0C48V41DA  
TEM8A0D48V41DA  
TEM8A0C60V51DA  
TEM8A0D60V51DA



*The TEM8 series air handler is designed for installation in a closet, utility room, alcove, basement, crawlspace or attic. These versatile units are applicable to air conditioning and heat pump applications. Several models are available to meet the specific requirements of the outdoor equipment. Field installed electric resistance heaters are available.*

### **▲ SAFETY WARNING**

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

# SAFETY SECTION

## AIR HANDLERS

**Important:** This document contains a wiring diagram, a parts list, and service information. This is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

**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.

### ⚠ 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.

### ⚠ 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.

### ⚠ 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****SAFETY HAZARD!**

Fiberglass dust and ceramic fibers are believed by the state of California to cause cancer through inhalation. Glasswool fibers may also cause respiratory, skin, or eye irritation.

**PRECAUTIONARY MEASURES**

- Avoid breathing fiberglass dust
- Use a NIOSH approved dust/mist respirator
- Avoid contact with the skin or eyes. Wear long-sleeved, loose fitting clothing, gloves, and eye protection
- Wash clothes separately from other clothing, rinse washer thoroughly
- Operations such as sawing, blowing, tear-out, and spraying may generate fiber concentrations requiring additional respiratory protection. Use the appropriate NIOSH approved respirator in these situations

**FIRST AID MEASURES**

- **EYE CONTACT:** FLUSH EYES WITH WATER TO REMOVE DUST. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.
- **SKIN CONTACT:** WASH AFFECTED AREA GENTLY WITH SOAP AND WARM WATER AFTER HANDLING.

This warning complies with state of California law, Proposition 65.

**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.

**⚠ 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.

**⚠ WARNING****SAFETY HAZARD!**

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

**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 or drain pan for upflow or horizontal left applications. See the downflow and horizontal right installation sections for application instructions.

# Table of Contents

Features .....	5	Outline Drawing .....	21
Installation Instructions .....	5	Heater Pressure Drop Table .....	22
Sequence of Operation .....	8	Subcooling Adjustment .....	22
Abbreviations .....	8	Subcooling Adjustment for TEM8A0C48V41 & TEM8A0C60V51.....	22
Electrical – Low Voltage .....	9	Coil Conversion Instructions.....	23
Wiring D806011P02revA.....	12	Checkout Procedures .....	36
Performance and Electrical Data .....	13		
Minimum Airflow CFM .....	20		

# Features

**Table 1. Standard Features**

<ul style="list-style-type: none"><li>• COMMUNICATING OR 24 VOLT CONTROL</li><li>• MULTI-POSITION UPFLOW, DOWNFLOW, HORIZONTAL LEFT AND HORIZONTAL RIGHT</li><li>• PAINTED FINISH ON GALVANIZED STEEL EXTERIOR WITH FULLY INSULATED CABINET THAT MEETS R4.2 VALUE</li><li>• STURDY POLYCARBONATE DRAIN PANS<ul style="list-style-type: none"><li>– The TEM air handler has factory installed drain pans and is shipped for upflow and horizontal left applications</li></ul></li><li>• 208/230 VAC OPERATION</li><li>• VARIABLE-SPEED DIRECT DRIVE BLOWER.</li><li>• FACTORY INSTALLED R-410A THERMAL EXPANSION VALVE</li><li>• ALL ALUMINUM COIL</li><li>• BOTTOM RETURN</li><li>• MEETS THE MINIMUM LEAKAGE REQUIREMENTS FOR THE FLORIDA AND CALIFORNIA BUILDING CODES</li></ul>
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**Table 2. Optional Accessories**

<ul style="list-style-type: none"><li>• 4,5,8,10,15,20, and 25 KW SINGLE PHASE ELECTRIC HEATERS<ul style="list-style-type: none"><li>– Circuit breakers available on single phase 4, 5, 8, 10, 15, 20, and 25 KW heaters</li><li>– Lugs available on single phase 4, 5, 8, and 10 KW heaters</li><li>– Lugs available on three phase 10 and 15 KW heaters</li></ul></li><li>• SINGLE POINT POWER ENTRY KIT (for 15 and 20 KW heaters)</li><li>• SUPPLY DUCT FLANGE KIT</li><li>• DOWNFLOW SUB-BASE KITS - TAYBASE185, TAYBASE235, TAYBASE260</li><li>• SLIM FIT FILTER BOX KIT — BAYSF1185AAA, BAYSF1235AAA, BAYSF1265AAA</li></ul>
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## Installation Instructions

### 1. Unpacking

Carefully unpack the unit and inspect the contents for damage. If any damage is found at the time of delivery, proper notification and claims should be made with the carrier.

Check the rating plate to assure model number and voltage, plus any kits match with what you ordered. The manufacturer should be notified within 5 days of any discrepancy or parts shortage.

### 2. Location

The air handler should be centrally located and may be installed in a closet, alcove, utility room, basement, crawl space or attic. Minimum clearances must be met.

**Important:** *The downflow sub-base may be required with electric heat applications. See minimum clearance table on unit nameplate.*

The unit must be installed in a level position to ensure proper condensation drainage. Make sure the unit is level in both directions within 1/8" on either side.

When the unit is installed in a closet or utility room, the room should be large enough, and have an opening to allow replacement of the unit. All servicing is done from the front and a clearance of 21" is needed for service unless the closet door aligns with the front of the air handler.

If you are installing the unit in an unconditioned space such as an attic or crawl space, you must ensure that the area provides sufficient air circulation to prevent moisture collection on the cabinet during high dew point conditions. A drain pan must be installed under the entire unit when it is installed in or above a finished ceiling or in an unconditioned space.

### 3. Duct Work

The duct work should be installed in accordance with the NFPA No. 90A "Installation of Air Conditioning and Ventilating systems" and No. 90B "Residential Type Warm Air Heating and Air Conditioning Installation."

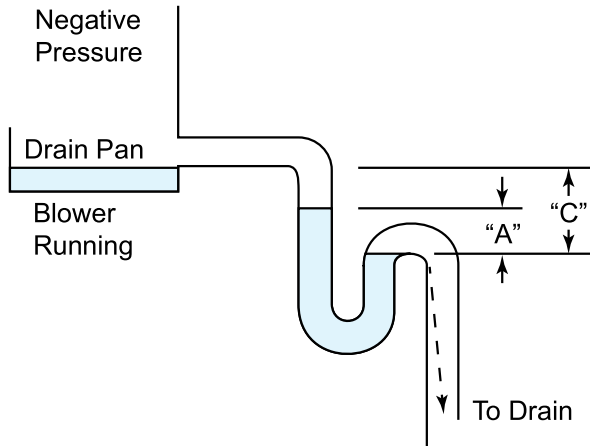
The duct work should be insulated in accordance with the applicable requirements for the particular installation as required by HUD, FHA, VA the applicable building code, local utility or other governing body.

### 4. Condensate Drain

The unit is supplied with primary and auxiliary condensate drains that have 3/4" NPT connections. The primary drain must be trapped outside the unit and piped in accordance with applicable building codes.

The figure shows the operation of a properly designed trap under normal operating conditions when the blower is running and the condensate is draining. Note the difference in height of the water column must at least equal the normal negative static pressure existing during operation between the cooling coil and blower. It is advisable to have the difference in water column height somewhat greater than the normal maximum operating static to allow for greater static caused by dirty filters or for the bounce of the water column on start up.

## Features



Proper operation of condensate trap under normal operating conditions.

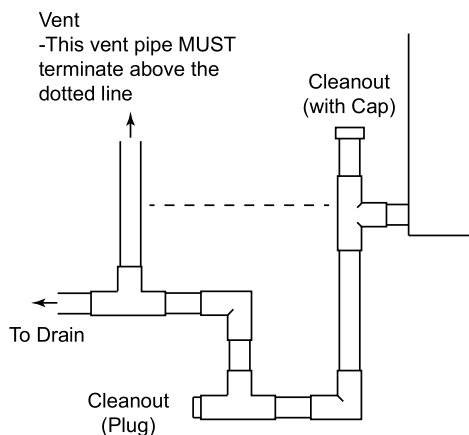
"A" height of water column equals negative static pressure existing in system.

"C" dimension should at least equal two times the maximum negative static pressure that can occur in system.

Do not reduce the drain line size less than the connection size on the drain pan. Condensate should be piped to an open drain or to the outside. All drains must pitch downward away from the unit a minimum of 1/4" per foot of line to ensure proper drainage.

**Important:** If cleanout Tee is used, stand pipe must be sealed/capped.

**Important:** If a vent Tee is used, it must be downstream from the trap.



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

## 5. Refrigerant Piping

Refrigerant piping external to the unit shall be sized in accordance with the instructions of the manufacturer of the outdoor equipment.

## 6. Metering Device

All units are shipped and installed with an internally-checked, non-bleed TXV designed for air conditioning or heat pump operation. Some outdoor models may require a start assist kit. See outdoor unit for more information.

## 7. Blower

This unit is supplied with a variable speed motor with a direct drive blower wheel which can obtain various air flows. The unit is shipped with factory set cooling and heating air flows. Performance tables are available for additional airflow settings. Disconnect all power to the unit before making any adjustments to the airflow settings. Be sure to check the air flow and the temperature drop across the evaporator coil to ensure sufficient air flow.

## 8. Airflow Adjustment

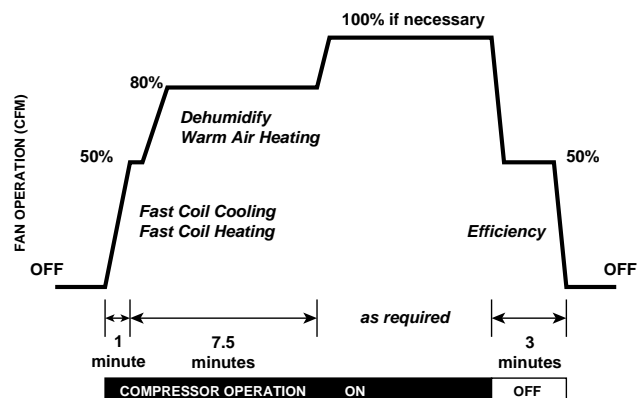
**Note:** A CDA tool may be plugged into the TEM8 control board and used to configure or monitor the system

## 9. Indoor Blower Timing

Table 3. Delay Options

The blower delay profile is to be configured for heating and cooling modes of operation. There are 4 blower off delay options	
Option 1	90 seconds at 100% air flow
Option 2	No delay
Option 3	180 seconds at 50% air flow
Option 4	Enhanced Mode

Figure 1. Enhanced Mode



## 10. Wiring

Consult all schematic and pictorial wiring diagrams of this unit and the outdoor equipment to determine compatibility of wiring connections and to determine specific requirements.

All field wiring to the air handler should be installed

in accordance with the latest edition of the National Electric Code NFPA No. 70 and any local codes. Check rating plates on unit for rated volts, minimum circuit ampacity and maximum over current protection. Supply circuit power wiring must be 75 degree C (167 degree F) minimum copper conductors only. Copper supply wires shall be sized to the National Electric Code or local code requirements, whichever is more stringent.

The unit is shipped wired for 230/240 Volt AC 60 HZ 1 Phase Operation. If the unit is to be operated at 208 VAC 60HZ, follow the instructions on the indoor unit wiring diagram to change the low voltage transformer to 208 VAC operation (Ensure unit is properly grounded).

Class 2 low voltage control wiring should not be run in conduit with power wiring and must be separated from power wiring unless class 1 wire with proper voltage rating is used.

Low voltage control wiring should be 18 Awg, color coded (105 degree C minimum). For lengths longer than 100ft., 16 Awg wire should be used. Make certain that separation of control wiring and power wiring has been maintained.

#### 11. Air Filter

To protect the coil, blower and other internal parts from excessive dirt and dust an air filter must be installed before air enters the evaporator coil. A remote filter must be installed. Consult the filter

manufacturer for proper sizing and maximum velocity requirements.

**Important:** *Air filters shall meet the test requirements in UL 900.*

#### 12. Operational and Checkout Procedures

To obtain proper performance, all units must be operated and charge adjustments made in accordance with procedures found in the Service Facts document of the outdoor unit. After installation has been completed, it is recommended that the entire system be checked against the checkout list located at the back of this document. See "[Checkout Procedures](#)," p.

#### 13. Maintenance

The system air filter(s) should be inspected, cleaned or replaced at least monthly. Make certain that the access panels are replaced and secured properly before placing the unit back in operation. This product is designed for dependable service; however, periodic maintenance should be scheduled and conducted by trained professional service personnel. This service should be conducted at least annually and should include testing and inspection of electrical and refrigerant components, flushing of condensate drain, and repriming of condensate trap. The heat transfer surface should be cleaned. The blower motor is permanently lubricated for normal operating conditions.

# Sequence of Operation

## Abbreviations

- AFC = Airflow Control

**Note:** Use variable speed outdoor Sequence of Operation in conjunction with the TEM8 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 AFC 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 setpoint. This will help prevent coil condensation from being evaporated back into the air stream.

## Cooling Mode

1. When a request for 1st stage cooling is received, the AFC sends a command to the serial communicating blower motor to run at 1st stage cooling airflow. (Delay profiles from the thermostat may change blower motor timing and actual airflow demand)
2. When a request for 2nd stage cooling is received, the AFC sends a command to the serial communicating blower motor to run at 100 % cooling airflow.
3. When a request for cooling is removed, the AFC will turn off the blower motor after any user selected fan-off delays have expired.

**Note:** Delay profiles from the thermostat may change blower motor timing and actual airflow demand.

## Heat pump (compressor only)

1. When a request for 1st stage heat is received, the AFC sends a command to the serial communicating blower motor to run at 1st stage heating airflow.

2. Humidifier contacts close on demand from thermostat.
3. When a request for 2nd stage mechanical heat is received, the AFC 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 AFC will turn off the blower motor after any user selected fan-off delays have expired.

**Note:** Delay profiles from the thermostat may change blower motor timing and actual airflow demand.

## Electric Heat

1. When a request for electric heat is received, the AFC 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 AFC sends a command to the serial communicating blower motor to run proper airflow and close the blower interlock relay on the EHC.

## Defrost

1. The OD unit will initiate defrost and send a message to the AFC.
2. Electric or hydronic heat will be energized to help temper the air.

## Unit Test Mode

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

To enter Unit Test Mode:

1. Set System Switch on comfort control to Off.
2. Scroll down to the Unit Test selection and push the "Enter" button.

## Sequence of Unit Test Mode (OD unit is not energized during the Unit Test Mode)

1. AFC energizes the blower at 50% and then continues to ramp until it reaches 100% cooling airflow.
2. Humidifier contacts close when the blower starts.
3. AFC energizes the W relays in 10 second intervals. The blower remains at 100% air flow.
4. All relays de-energize and the blower shuts off five seconds after the last bank of heat is energized.

**Note:** If an error occurs during the Unit Test Mode, the Fault LED will flash a code and continue the test.



# Electrical – Low Voltage

**Table 4. 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><b>Note:</b> <i>The use of color coded low voltage wire is recommended to simplify connections between the outdoor unit, the control, and the indoor unit.</i></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 5. Humidifier and External Switch**

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 AFC control board.

Humidifier Harness

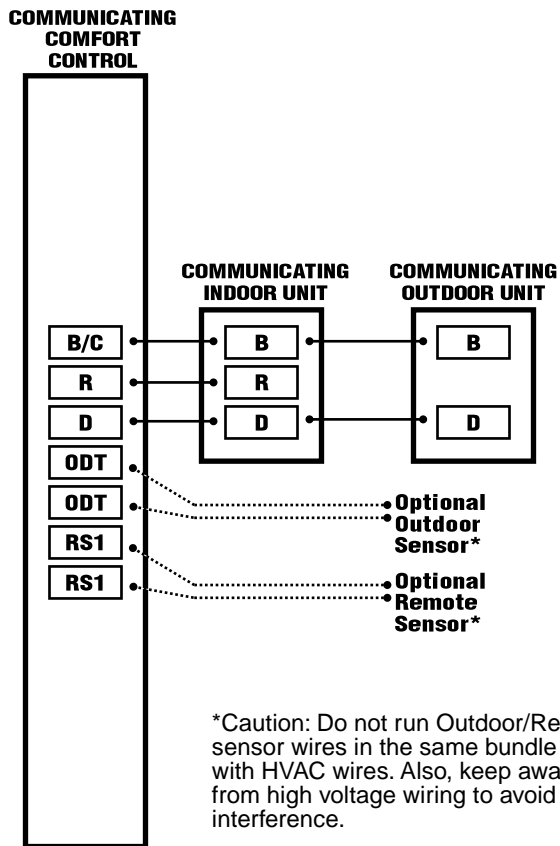
External Switch Harness

**Table 6. Low Voltage Hook-up Instructions**

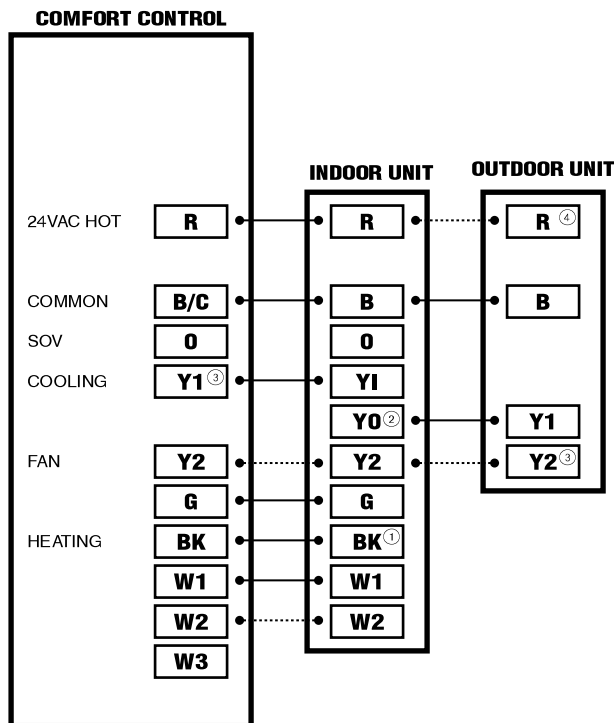
**Note:** *Strain relief must be provided on the inside of the air handler cabinet for the low voltage wiring. Field supplied thermostat wired may be wire tied as a bundle to the existing strain relieved low voltage pigtail leads in the air handler unit.*

- Route control wiring to unit. Remove the external sheathing of the wiring approximately 5".

### Communicating Controls Wiring Diagram



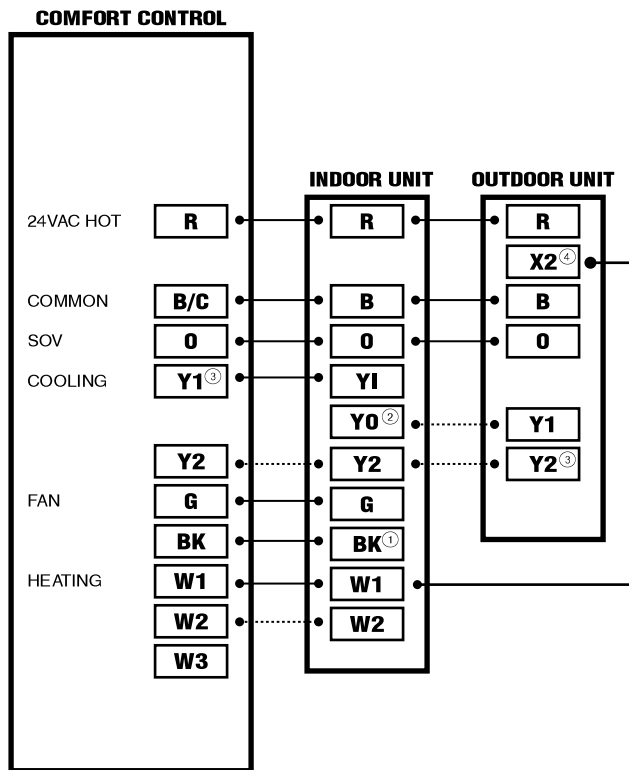
### 1 OR 2 STAGE COOLING WITH TEM8 MODEL VARIABLE SPEED AIR HANDLER



**NOTES:**

1. Cut the BK jumper on the AFC when using the BK functionality from the thermostat.
2. Y1 and Y0 connections must be made as shown for external switch functionality. (See table 5) Can be used for condensate overflow switch as well as other functions. Configure this functionality from the AFC seven segment display.
3. When using the BK feature from the comfort control, the Y1 & Y2 inputs to the AFC are for the seven segment display only. The BK feature has 100% control over air flow.
4. Y2 connections at outdoor unit at required only for two stage units.

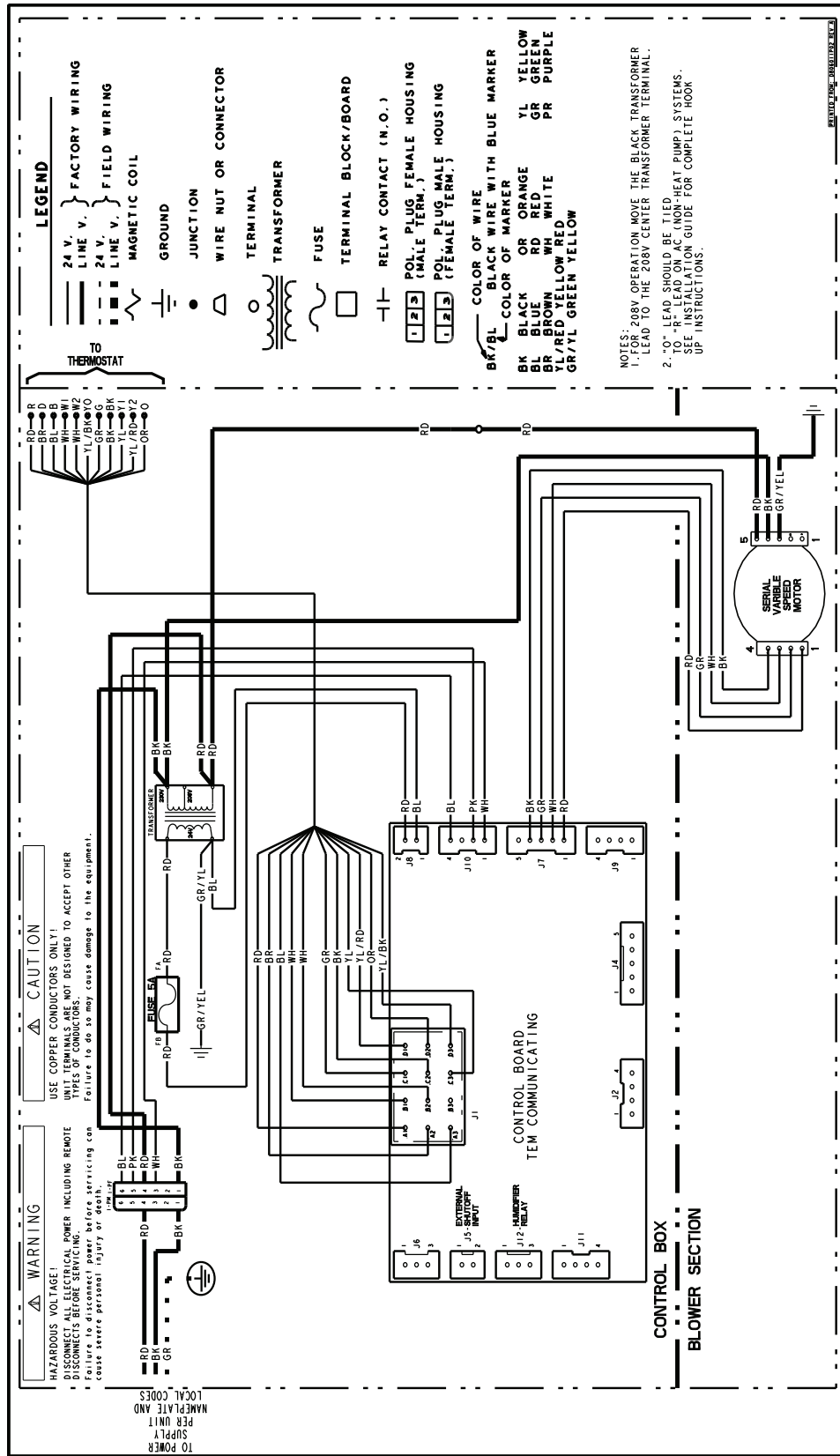
**1 OR 2 STAGE HEAT PUMP WITH TEM8 VARIABLE SPEED AIR HANDLER**



**NOTES:**

1. Cut the BK jumper on the AFC when using the BK functionality from the thermostat.
2. Y1 and Y0 connections must be made as shown for external switch functionality. (See table 5) Can be used for condensate overflow switch as well as other functions. Configure this functionality from the AFC seven segment display.
3. Connection to X2 is not required when using the 402, 624, 824, or relay panel controls.
4. When using the BK feature from the comfort control, the Y1 & Y2 inputs to the AFC are for the 7 segment display only. The BK feature has 100% control over air flow.

# Wiring D806011P02revA



# Performance and Electrical Data

TEM8A0B24V21DA & TEM8A0B30V31DA 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	430/538 50/39	430/415 75/48	430/264 95/43	430/NA 110/NA	430/NA 145/NA	290 CFM/ton	CFM Watts	419 64	419 96	419 130	419 167						
	350 CFM/ton	CFM Watts	520/620 60/53	520/514 90/64	520/398 120/61	520/NA 135/NA	510/NA 175/NA	350 CFM/ton	CFM Watts	512 77	514 112	500 153	485 196						
	400 CFM/ton	CFM Watts	590/688 75/67	590/593 105/80	590/493 140/80	590/NA 160/NA	590/NA 205/NA	400 CFM/ton	CFM Watts	595 91	595 127	584 173	573 222						
	450 CFM/ton	CFM Watts	670/758 85/85	670/671 125/100	660/581 160/102	660/NA 190/NA	660/NA 235/NA	450 CFM/ton	CFM Watts	667 71	675 145	668 196	660 250						
	290 CFM/ton	CFM Watts	570/670 60/63	570/573 90/76	570/469 125/75	570/NA 165/NA	568/NA 215/NA	290 CFM/ton	CFM Watts	569 87	573 123	561 167	549 215						
2 tons	350 CFM/ton	CFM Watts	690/781 85/91	690/696 120/107	690/609 160/110	690/518 210/98	680/NA 259/NA	350 CFM/ton	CFM Watts	693 76	702 152	696 204	689 259						
	400 CFM/ton	CFM Watts	790/875 110/122	790/798 150/140	790/720 195/145	780/639 250/137	780/555 301/115	400 CFM/ton	CFM Watts	791 103	805 184	803 240	798 301						
	450 CFM/ton	CFM Watts	890/971 145/161	890/899 185/181	880/827 235/189	880/754 295/184	880/680 347/184	450 CFM/ton	CFM Watts	889 138	902 226	899 284	891 347						
	290 CFM/ton	CFM Watts	720/823 90/104	720/741 140/120	710/659 170/124	710/573 220/115	710/481 260/91	290 CFM/ton	CFM Watts	717 82	728 159	723 212	717 269						
	350 CFM/ton	CFM Watts	870/963 140/157	860/892 182/177	873/819 235/185	860/746 280/180	850/671 330/161	350 CFM/ton	CFM Watts	865 128	879 214	876 272	869 335						
2.5 tons	400 CFM/ton	CFM Watts	990/1084 185/217	980/1018 240/236	980/951 290/250	980/884 345/248	970/817 395/233	400 CFM/ton	CFM Watts	988 181	989 279	979 337	961 397						
	450 CFM/ton	CFM Watts	1110/1250 251/363	1110/1190 311/382	1100/1129 366/390	1070/756 417/208	850/650 325/155	450 CFM/ton	CFM Watts	1110 249	1080 366	1048 417	1004 468						
	290 CFM/ton	CFM Watts	860/976 140/149	860/904 185/171	850/832 225/182	850/758 280/180	970/683 400/164	290 CFM/ton	CFM Watts	860 127	874 212	872 270	865 332						
	350 † CFM/ton	CFM Watts	1040/1155 205/235	1030/1091 260/262	1060/1027 315/278	1020/962 370/282	980/897 425/273	350 † CFM/ton	CFM Watts	1037 206	1040 311	1011 367	985 425						
	400 CFM/ton	CFM Watts	1180/1281 270/314	1180/1221 365/344	1120/1160 431/363	1065/1100 475/371	1000/677 520/161	400 CFM/ton	CFM Watts	1183 298	1122 431	1068 475	1000 515						
3 tons †	450 CFM/ton	CFM Watts	1250/1281 343/314	1220/1221 417/344	1145/1160 490/363	1070/979 530/291	970/496 556/96	450 CFM/ton	CFM Watts	1242 343	1149 490	1071 527	979 556						

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

# Performance and Electrical Data

OUTDOOR MULTIPLIER (TONS)	TEM8A0C36V31DA & TEM8A0C42V41DA AIRFLOW PERFORMANCE (Constant CFM / Constant Torque)										CONSTANT CFM MODE / CONSTANT TORQUE MODE														
	COOLING AIRFLOW SETTING					EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING					AIRFLOW POWER					EXTERNAL STATIC PRESSURE				
	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	0.1	0.3	0.5	0.7	0.9	0.1	0.3	0.5	0.7	0.9	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	0.1	0.3	0.5	0.7	0.9
2.5 tons	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	735 / 837	727 / 702	700 / 593	673 / 415	660 / 415	735	727	700	673	660	290	350	400	450	290	735	727	700	673	660
	Watts	Watts	Watts	Watts	Watts	59 / 72	96 / 90	138 / 105	176 / 123	215 / 148	59	96	138	176	215	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	Watts
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	883 / 972	884 / 849	882 / 746	881 / 657	870 / 577	883	884	882	881	870	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	883	884	882	881	870
	Watts	Watts	Watts	Watts	Watts	82 / 103	124 / 123	170 / 138	223 / 152	270 / 168	82	124	170	223	270	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	82	124	170	223	270
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1007 / 1084	1016 / 971	1033 / 874	1020 / 788	1010 / 711	1007	1016	1033	1020	1010	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1007	1016	1033	1020	1010
3 tons	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	1133 / 1198	1146 / 1093	1176 / 1001	1140 / 919	1130 / 845	1133	1146	1176	1140	1130	290	350	400	450	290	1133	1146	1176	1140	1130
	Watts	Watts	Watts	Watts	Watts	143 / 177	192 / 202	246 / 220	321 / 233	375 / 244	143	192	246	321	375	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	143	192	246	321	375
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	878 / 993	879 / 872	876 / 771	874 / 682	865 / 602	878	879	876	874	865	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	878	879	876	874	865
	Watts	Watts	Watts	Watts	Watts	82 / 108	123 / 129	169 / 144	221 / 157	270 / 173	82	123	169	221	270	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	82	123	169	221	270
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1057 / 1154	1068 / 1045	1091 / 952	1070 / 869	1060 / 793	1057	1068	1091	1070	1060	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1057	1068	1091	1070	1060
3.5 tons	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	122 / 160	168 / 184	220 / 201	289 / 213	340 / 225	122	168	220	289	340	290	350	400	450	290	122	168	220	289	340
	Watts	Watts	Watts	Watts	Watts	1209 / 1289	1223 / 1190	1255 / 1102	1210 / 1024	1190 / 952	1209	1223	1255	1210	1190	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1209	1223	1255	1210	1190
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	168 / 216	219 / 243	277 / 262	355 / 276	410 / 287	168	219	277	355	410	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	168	219	277	355	410
	Watts	Watts	Watts	Watts	Watts	1364 / 1426	1375 / 1334	1393 / 1253	1340 / 1179	1330 / 1110	1364	1375	1393	1340	1330	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1364	1375	1393	1340	1330
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	230 / 287	286 / 317	350 / 339	429 / 355	480 / 367	230	286	350	429	480	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	230	286	350	429	480
3.5 tons	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	1022 / 1123	1031 / 1012	1050 / 917	1030 / 832	1030 / 756	1022	1031	1050	1030	1030	290	350	400	450	290	1022	1031	1050	1030	1030
	Watts	Watts	Watts	Watts	Watts	113 / 148	158 / 172	209 / 188	275 / 201	325 / 213	113	158	209	275	325	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1022	1031	1050	1030	1030
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1235 / 1312	1249 / 1214	1242 / 1128	1230 / 1050	1220 / 978	1235	1249	1242	1230	1220	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1235	1249	1242	1230	1220
	Watts	Watts	Watts	Watts	Watts	178 / 227	229 / 254	288 / 274	367 / 288	420 / 299	178	229	288	367	420	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	178	229	288	367	420
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1416 / 1471	1424 / 1383	1399 / 1303	1380 / 1230	1370 / 1163	1416	1424	1399	1380	1370	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1416	1424	1399	1380	1370
4 tons †	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	254 / 314	313 / 263	378 / 368	455 / 385	510 / 398	254	313	378	455	510	290	350	400	450	290	254	313	378	455	510
	Watts	Watts	Watts	Watts	Watts	1601 / 1618	1591 / 1536	1547 / 1462	1500 / 1394	1390 / 1330	1601	1591	1547	1500	1390	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1601	1591	1547	1500	1390
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	356 / 420	423 / 454	497 / 480	553 / 500	520 / 514	356	423	497	553	520	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	356	423	497	553	520
	Watts	Watts	Watts	Watts	Watts	1168 / 1276	1182 / 1175	1182 / 1087	1170 / 1007	1160 / 935	1168	1182	1182	1170	1160	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1168	1182	1182	1170	1160
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	155 / 209	204 / 235	260 / 254	337 / 268	390 / 279	155	204	260	337	390	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	155	204	260	337	390
4 tons †	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 CFM/ton	1416 / 1492	1424 / 1404	1399 / 1325	1380 / 1252	1370 / 1185	1416	1424	1399	1380	1370	350 †	400	450	350 †	350 †	1416	1424	1399	1380	1370
	Watts	Watts	Watts	Watts	Watts	254 / 326	313 / 357	378 / 381	455 / 398	510 / 411	254	313	378	455	510	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	254	313	378	455	510
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1628 / 1616	1614 / 1535	1534 / 1461	1500 / 1393	1390 / 1329	1628	1616	1534	1500	1393	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1628	1616	1534	1500	1390
	Watts	Watts	Watts	Watts	Watts	373 / 435	441 / 468	517 / 492	568 / 510	520 / 524	373	441	517	568	520	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	373	441	517	568	520
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1714 / 1605	1686 / 1525	1550 / 1452	1500 / 1385	1390 / 1321	1714	1686	1550	1500	1390	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1714	1686	1550	1500	1390

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

TEM8A0C48V41DA & TEM8A0C60V51DA 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/ton	CFM Watts	864 / 1015 80 / 96	856 / 883 119 / 121	851 / 772 170 / 141	850 / 676 217 / 160	820 / 590 276 / 182	290 CFM/ton	CFM Watts	864 / 1015 80 / 96	856 / 883 119 / 121	851 / 772 170 / 141	850 / 676 217 / 160	820 / 590 276 / 182	290 CFM/ton	CFM Watts	864 / 1015 80 / 96	856 / 883 119 / 121	851 / 772 170 / 141	850 / 676 217 / 160	820 / 590 276 / 182	
	350 CFM/ton	CFM Watts	1037 / 1179 120 / 137	1037 / 1059 170 / 164	1040 / 957 224 / 185	1030 / 866 265 / 204	1030 / 784 334 / 221	350 CFM/ton	CFM Watts	1037 / 1179 120 / 137	1037 / 1059 170 / 164	1040 / 957 224 / 185	1030 / 866 265 / 204	1030 / 784 334 / 221	350 CFM/ton	CFM Watts	1037 / 1179 120 / 137	1037 / 1059 170 / 164	1040 / 957 224 / 185	1030 / 866 265 / 204	1030 / 784 334 / 221	
	400 CFM/ton	CFM Watts	1184 / 1317 160 / 180	1187 / 1207 215 / 209	1193 / 1110 275 / 233	1180 / 1024 325 / 251	1190 / 945 380 / 268	400 CFM/ton	CFM Watts	1184 / 1317 160 / 180	1187 / 1207 215 / 209	1193 / 1110 275 / 233	1180 / 1024 325 / 251	1190 / 945 380 / 268	400 CFM/ton	CFM Watts	1184 / 1317 160 / 180	1187 / 1207 215 / 209	1193 / 1110 275 / 233	1180 / 1024 325 / 251	1190 / 945 380 / 268	
	450 CFM/ton	CFM Watts	1334 / 1457 205 / 232	1336 / 1354 265 / 265	1343 / 1263 335 / 290	1340 / 1181 395 / 310	1340 / 1105 460 / 327	450 CFM/ton	CFM Watts	1334 / 1457 205 / 232	1336 / 1354 265 / 265	1343 / 1263 335 / 290	1340 / 1181 395 / 310	1340 / 1105 460 / 327	450 CFM/ton	CFM Watts	1334 / 1457 205 / 232	1336 / 1354 265 / 265	1343 / 1263 335 / 290	1340 / 1181 395 / 310	1340 / 1105 460 / 327	
		290 CFM/ton	CFM Watts	1015 / 1147 115 / 128	1000 / 1025 160 / 155	1000 / 921 205 / 176	1000 / 829 255 / 194	1000 / 746 309 / 212	290 CFM/ton	CFM Watts	1015 / 1147 115 / 128	1000 / 1025 160 / 155	1000 / 921 205 / 176	1000 / 829 255 / 194	1000 / 746 309 / 212	290 CFM/ton	CFM Watts	1015 / 1147 115 / 128	1000 / 1025 160 / 155	1000 / 921 205 / 176	1000 / 829 255 / 194	1000 / 746 309 / 212
		350 CFM/ton	CFM Watts	1210 / 1341 165 / 188	1210 / 1231 220 / 218	1210 / 1136 280 / 241	1210 / 1050 335 / 260	1210 / 971 395 / 277	350 CFM/ton	CFM Watts	1210 / 1341 165 / 188	1210 / 1231 220 / 218	1210 / 1136 280 / 241	1210 / 1050 335 / 260	1210 / 971 395 / 277	350 CFM/ton	CFM Watts	1210 / 1341 165 / 188	1210 / 1231 220 / 218	1210 / 1136 280 / 241	1210 / 1050 335 / 260	1210 / 971 395 / 277
3.5 tons	400 CFM/ton	CFM Watts	1380 / 1503 195 / 252	1380 / 1403 285 / 286	1390 / 1314 355 / 312	1390 / 1233 420 / 332	1390 / 1159 485 / 349	400 CFM/ton	CFM Watts	1380 / 1503 195 / 252	1380 / 1403 285 / 286	1390 / 1314 355 / 312	1390 / 1233 420 / 332	1390 / 1159 485 / 349	400 CFM/ton	CFM Watts	1380 / 1503 195 / 252	1380 / 1403 285 / 286	1390 / 1314 355 / 312	1390 / 1233 420 / 332	1390 / 1159 485 / 349	
	450 CFM/ton	CFM Watts	1560 / 1667 295 / 332	1560 / 1575 365 / 369	1570 / 1492 440 / 398	1570 / 1416 515 / 421	1579 / 1345 595 / 439	450 CFM/ton	CFM Watts	1560 / 1667 295 / 332	1560 / 1575 365 / 369	1570 / 1492 440 / 398	1570 / 1416 515 / 421	1579 / 1345 595 / 439	450 CFM/ton	CFM Watts	1560 / 1667 295 / 332	1560 / 1575 365 / 369	1570 / 1492 440 / 398	1570 / 1416 515 / 421	1579 / 1345 595 / 439	
	290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263	290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263	290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263	
	350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360	350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360	350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360	
	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	
	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	
4 tons	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	
	350 CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	350 CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	350 CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	
	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	
	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	
		290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263	290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263	290 CFM/ton	CFM Watts	1140 / 1304 145 / 175	1140 / 1192 200 / 204	1140 / 1095 255 / 227	1140 / 1008 310 / 246	1150 / 929 365 / 263
		350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360	350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360	350 CFM/ton	CFM Watts	1380 / 1525 220 / 262	1380 / 1426 285 / 295	1390 / 1338 355 / 322	1390 / 1257 420 / 343	1390 / 1183 485 / 360
5 tons †	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	400 CFM/ton	CFM Watts	1590 / 1711 305 / 356	1590 / 1621 380 / 267	1590 / 1539 455 / 356	1590 / 1464 535 / 267	1600 / 1394 610 / 466	
	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	450 CFM/ton	CFM Watts	1790 / 1898 410 / 474	1790 / 1816 495 / 597	1800 / 1741 585 / 548	1800 / 1670 670 / 575	1810 / 1604 760 / 597	
	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	290 CFM/ton	CFM Watts	1430 / 1571 240 / 283	1440 / 1475 310 / 318	1440 / 1388 375 / 345	1440 / 1309 445 / 367	1440 / 1236 515 / 384	
	350 CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	350 CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	350 CFM/ton	CFM Watts	1740 / 1851 380 / 442	1740 / 1767 465 / 482	1750 / 1690 550 / 514	1750 / 1619 635 / 541	1760 / 1552 720 / 562	
	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	400 CFM/ton	CFM Watts	2000 / 2087 540 / 619	2000 / 2012 635 / 663	2010 / 1942 735 / 700	1980 / 1873 810 / 729	1870 / 317 810 / 378	
	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	450 CFM/ton	CFM Watts	2260 / 2141 745 / 686	2210 / 2068 810 / 729	2100 / 1999 810 / 766	1980 / 903 810 / 359	1870 / 315 810 / 405	

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

# Performance and Electrical Data

OUTDOOR MULTIPLIER (TONS)	TEM8A0D48V41DA & TEM8A0D60V51DA AIRFLOW PERFORMANCE										CONSTANT CFM MODE / CONSTANT TORQUE MODE									
	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	290 CFM/ton	350 CFM/ton	400 CFM/ton	450 CFM/ton	290 Watts	350 Watts	400 Watts	450 Watts	0.1	0.3	0.5	0.7	0.9		
3 tons	859 / 1010	880 / 880	868 / 771	862 / 675	857 / 588	290	350	400	450	CFM	CFM	CFM	CFM	859	880	868	862	857		
	73 / 92	110 / 110	153 / 125	200 / 141	248 / 159	CFM	CFM	CFM	CFM	Watts	Watts	Watts	Watts	73	110	153	200	248		
	1042 / 1173	1058 / 1056	1054 / 955	1053 / 864	1047 / 782	350	400	450	290	CFM	CFM	CFM	CFM	1042	1058	1054	1053	1047		
	107 / 131	148 / 151	194 / 167	246 / 180	298 / 194	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	107	148	194	246	298		
	1214 / 1310	1215 / 1202	1222 / 1107	1225 / 1022	1215 / 943	400	450	290	350	CFM	CFM	CFM	CFM	1214	1215	1222	1225	1215		
3.5 tons	150 / 172	194 / 172	247 / 211	299 / 224	352 / 236	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	150	194	247	299	352		
	1350 / 1448	1338 / 1349	1360 / 1260	1363 / 1178	1361 / 1103	450	290	350	400	CFM	CFM	CFM	CFM	1350	1338	1360	1363	1361		
	188 / 223	239 / 247	292 / 265	349 / 279	409 / 291	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	188	239	292	349	409		
	1007 / 1141	1024 / 1022	1018 / 919	1017 / 827	1010 / 744	290	350	400	450	CFM	CFM	CFM	CFM	1007	1024	1018	1017	1010		
	99 / 122	140 / 122	185 / 158	236 / 171	288 / 186	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	99	140	185	236	288		
4 tons	1222 / 1333	1225 / 1227	1232 / 1133	1235 / 1048	1230 / 970	350	400	450	290	CFM	CFM	CFM	CFM	1222	1225	1232	1235	1230		
	150 / 180	196 / 202	246 / 219	301 / 323	358 / 245	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	150	196	246	301	358		
	1421 / 1495	1429 / 1398	1430 / 1310	1437 / 1231	1451 / 1157	400	450	290	350	CFM	CFM	CFM	CFM	1421	1429	1430	1437	1451		
	211 / 242	268 / 267	323 / 285	386 / 300	454 / 311	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	211	268	323	386	454		
	1583 / 1657	1519 / 1569	1592 / 1488	1588 / 1413	1586 / 1343	450	290	350	400	CFM	CFM	CFM	CFM	1583	1519	1592	1588	1586		
5 tons †	275 / 320	334 / 346	394 / 367	457 / 383	524 / 395	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	275	334	394	457	524		
	1155 / 1297	1164 / 1188	1166 / 1092	1168 / 1006	1162 / 927	290	350	400	450	CFM	CFM	CFM	CFM	1155	1164	1166	1168	1162		
	133 / 167	177 / 189	226 / 206	279 / 219	334 / 231	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	133	226	226	279	334		
	1431 / 1516	1421 / 1420	1408 / 1334	1402 / 1255	1408 / 1181	350	400	450	290	CFM	CFM	CFM	CFM	1431	1421	1408	1402	1408		
	216 / 254	264 / 276	313 / 295	369 / 309	435 / 321	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	Watts	Watts	216	264	313	369	435		

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter



**Note:** Heater size needs to be set in Configuration Menu.

**Table 7. Electrical Data**

<b>TEM8A0B24, TEM8A0B30 HEATER DATA</b>											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater				2.8 *	4	15			2.8 *	4	15
BAYHTR1504BRKC BAYHTR1504LUGB	1/1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	25
BAYHTR1505BRKC BAYHTR1505LUGB	1/1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25
BAYHTR1508BRKC BAYHTR1508LUGB	1/1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40
BAYHTR1510BRKC BAYHTR1510LUGB	1/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1516BRKA Circuit 1 <sup>(a)</sup>	2/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1516BRKA Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR3510LUGC	1/3	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYHTR3515LUGC	1/3	14.40	49100	34.6	46	50	10.80	36900	30.0	41	45

\* = Motor Amps

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

**Table 8. Electrical Data**

<b>TEM8A0C36, TEM8A0C42 HEATER DATA</b>											
Heater Model No.	No. of Circuits/ Phases	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				4.3 *	5	15			4.3 *	5	15
BAYHTR1504BRKC BAYHTR1504LUGB	1/1	3.84	13100	16.0	25	25	2.88	9800	13.8	23	25
BAYHTR1505BRKC BAYHTR1505LUGB	1/1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYHTR1508BRKC BAYHTR1508LUGB	1/1	7.68	26200	32.0	45	45	5.76	19700	27.7	40	40
BAYHTR1510BRKC BAYHTR1510LUGB	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
BAYHTR1516BRKA Circuit 1 <sup>(a)</sup>	2/1	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
BAYHTR1516BRKA Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1522BRKA Circuit 1	2/1	9.60	32800	40.0	55	60	7.20	24600	34.6	49	50
BAYHTR1522BRKA Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYHTR3510LUGC	1/3	9.60	32800	23.1	34	35	7.20	24600	20.0	30	30
BAYHTR3515LUGC	1/3	14.40	49100	34.6	48	50	10.80	36900	30.0	42	45

\* = Motor Amps

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

## Performance and Electrical Data

**Table 9. Electrical Data**

<b>TEM8A0C48, TEM8A0C60 HEATER DATA</b>											
Heater Model No.	No. of Circuits/ Phases	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				5.6 *	7	15			5.6 *	7	15
BAYHTR1504BRKC BAYHTR1504LUGB	1/1	3.84	13100	16.0	27	30	2.88	9800	13.8	24	25
BAYHTR1505BRKC BAYHTR1505LUGB	1/1	4.80	16400	20.0	32	35	3.60	12300	17.3	29	30
BAYHTR1508BRKC BAYHTR1508LUGB	1/1	7.68	26200	32.0	47	50	5.76	19700	27.7	42	45
BAYHTR1510BRKC BAYHTR1510LUGB	1/1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
BAYHTR1516BRKA Circuit 1 <sup>(a)</sup>	2/1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
BAYHTR1516BRKA Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1522BRKA Circuit 1	2/1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
BAYHTR1522BRKA Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYHTR1525BRKA Circuit 1	4/1	6.00	20500	25.0	38	40	4.50	15400	21.6	34	35
BAYHTR1525BRKA Circuit 2		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRKA Circuit 3		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRKA Circuit 4		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR3510LUGC	1/3	9.60	32800	23.1	35	35	7.20	24600	20.0	31	35
BAYHTR3515LUGC	1/3	14.40	49100	34.6	49	50	10.80	36900	30.0	44	45

\* = Motor Amps

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

Table 10. Electrical Data

TEM8A0D48, TEM8A0D60 HEATER DATA											
Heater Model No.	No. of Circuits/ Phases	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				5.0 *	6	15			5.0 *	6	15
BAYHTR1504BRKC BAYHTR1504LUGB	1/1	3.84	13100	16.0	26	30	2.88	9800	13.8	24	25
BAYHTR1505BRKC BAYHTR1505LUGB	1/1	4.80	16400	20.0	31	35	3.60	12300	17.3	28	30
BAYHTR1508BRKC BAYHTR1508LUGB	1/1	7.68	26200	32.0	46	50	5.76	19700	27.7	41	45
BAYHTR1510BRKC BAYHTR1510LUGB	1/1	9.60	32800	40.0	56	60	7.20	24600	34.6	50	50
BAYHTR1516BRKA Circuit 1 <sup>(a)</sup>	2/1	9.60	32800	40.0	56	60	7.20	24600	34.6	50	50
BAYHTR1516BRKA Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1522BRKA Circuit 1	2/1	9.60	32800	40.0	56	60	7.20	24600	34.6	50	50
BAYHTR1522BRKA Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYHTR1525BRKA Circuit 1	4/1	6.00	20500	25.0	38	40	4.50	15400	21.6	33	35
BAYHTR1525BRKA Circuit 2		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRKA Circuit 3		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRKA Circuit 4		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR3510LUGC	1/3	9.60	32800	23.1	34	35	7.20	24600	20.0	31	35
BAYHTR3515LUGC	1/3	14.40	49100	34.6	49	50	10.80	36900	30.0	43	45

\* = Motor Amps

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

# Minimum Airflow CFM

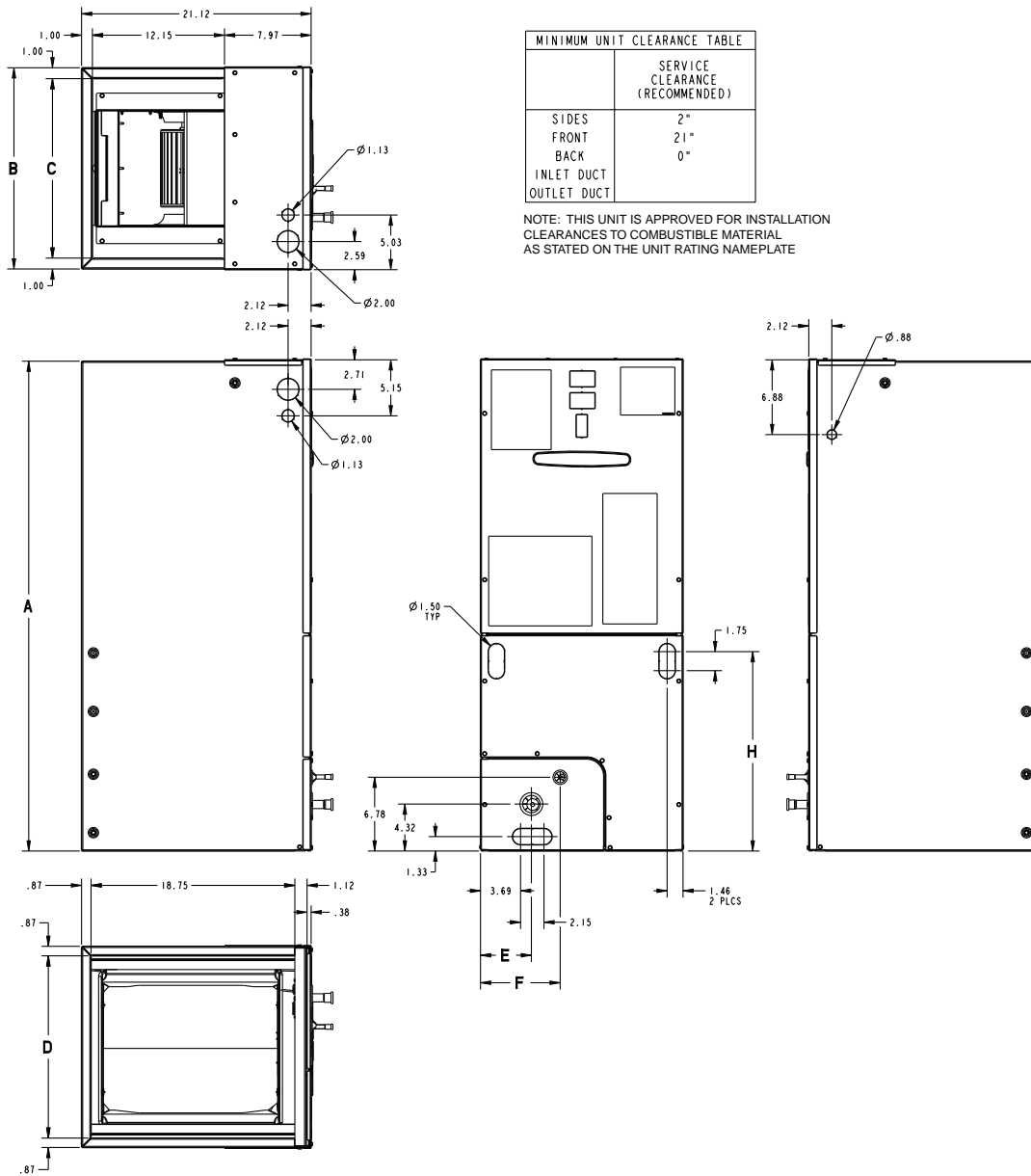
<b>TEM8A0B24V21D, TEM8A0B30V31D</b>		
<b>Heater</b>	<b>Minimum Heater Airflow CFM</b>	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRKC, BAYHTR1504LUGB BAYHTR1505BRKC, BAYHTR1505LUGB	550	600
BAYHTR1508BRKC, BAYHTR1508LUGB	800	600
BAYHTR1510BRKC, BAYHTR1510LUGB	825	700
BAYHTR1516BRKA	1050	850
BAYHTR3510LUGC	800	600
BAYHTR3515LUGC	900	850

<b>TEM8A0C36V31D, TEM8A0C42V41D</b>		
<b>Heater</b>	<b>Minimum Heater Airflow CFM</b>	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRKC, BAYHTR1504LUGB BAYHTR1505BRKC, BAYHTR1505LUGB	875	675
BAYHTR1508BRKC, BAYHTR1508LUGB	875	675
BAYHTR1510BRKC, BAYHTR1510LUGB	1225	825
BAYHTR1516BRKA	1325	1150
BAYHTR3510LUGC	875	675
BAYHTR3515LUGC	1250	1150
BAYHTR1522BRKA	1325	1150

<b>TEM8A0C48V41D, TEM8A0C60V51D</b>		
<b>Heater</b>	<b>Minimum Heater Airflow CFM</b>	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRKC, BAYHTR1504LUGB BAYHTR1505BRKC, BAYHTR1505LUGB	1200	975
BAYHTR1508BRKC, BAYHTR1508LUGB	1200	975
BAYHTR1510BRKC, BAYHTR1510LUGB	1200	975
BAYHTR1516BRKA	1200	975
BAYHTR3510LUGC	1200	975
BAYHTR3515LUGC	1200	975
BAYHTR1522BRKA	1350	1125
BAYHTR1525BRKA	1500	1350

<b>TEM8A0D48V41D, TEM8A0D60V51D</b>		
<b>Heater</b>	<b>Minimum Heater Airflow CFM</b>	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRKC, BAYHTR1504LUGB BAYHTR1505BRKC, BAYHTR1505LUGB	1150	975
BAYHTR1508BRKC, BAYHTR1508LUGB	1150	975
BAYHTR1510BRKC, BAYHTR1510LUGB	1150	975
BAYHTR1516BRKA	1325	1125
BAYHTR3510LUGC	1150	975
BAYHTR3515LUGC	1375	1125
BAYHTR1522BRKA	1375	1125
BAYHTR1525BRKA	1375	1125

# Outline Drawing



PRODUCT DIMENSIONS									
Air Handler Model	A	B	C	D	E	F	H	Flow Control	Gas Line Braze
TEM8A0B24, 30	46.77	18.50	16.50	16.75	4.68	7.33	20.09	TXV	3/4
TEM8A0C36, 42	51.27	23.50	21.50	21.75	7.01	9.66	24.59	TXV	7/8
TEM8A0C48, 60	55.87	23.50	21.50	21.75	4.68	9.66	27.19	TXV	7/8
TEM8A0D48, 60	53.87	26.50	24.50	24.75	7.01	9.66	27.19	TXV	7/8

All dimensions are in inches

# Heater Pressure Drop Table

Airflow CFM	Number of Racks				Heater Racks	
	1	2	3	4	Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					
1800	0.02	0.04	0.06	0.14	BAYHTR1504	1
1700	0.02	0.04	0.06	0.14	BAYHTR1505	1
1600	0.02	0.04	0.06	0.13	BAYHTR1508	2
1500	0.02	0.04	0.06	0.12	BAYHTR1510	2
1400	0.02	0.04	0.06	0.12	BAYHTR1516	3
1300	0.02	0.04	0.05	0.11	BAYHTR3510	3
1200	0.01	0.04	0.05	0.10	BAYHTR3515	3
1100	0.01	0.03	0.05	0.09	BAYHTR1522	4
1000	0.01	0.03	0.04	0.09	BAYHTR1525	4
900	0.01	0.03	0.04	0.08		
800	0.01	0.03				
700	0.01	0.02				
600	0.01	0.02				

## Subcooling Adjustment

System Matched with:	Indoor Unit Model No.	Outdoor Model No.	Subcooling
16 SEER HP — 2 ton	TEM8A0C36V31	4TWR6024H1000A 4TWX6024H1000A 4A6H6024H1000A	13 Degrees
15 SEER HP — 2 ton	TEM8A0B24V21 TEM8A0B30V31	4TWR5024G1000A 4A6H5024G1000A	14 Degrees
15 SEER HP — 3 ton	TEM8A0B30V31 TEM8A0C36V31 TEM8A0C42V41	4TWR5036G1000A 4A6H5036G1000A	14 Degrees

All other matches must be charged per the nameplate charging instructions

## Subcooling Adjustment for TEM8A0C48V41 & TEM8A0C60V51

Sub-Cooling Charge Specification For AHRI Rated Performance		
OD Equipment	Up Flow / Horizontal	Down Flow
AC UNIT	OD Name Plate	OD Name Plate
HP UNIT ≤ 3.5 Tons	OD Name Plate	OD Name Plate + 4 Degrees
HP UNIT = 4 and 5 Tons	OD Name Plate	OD Name Plate

# Coil Conversion Instructions

**Table 11. Downflow**

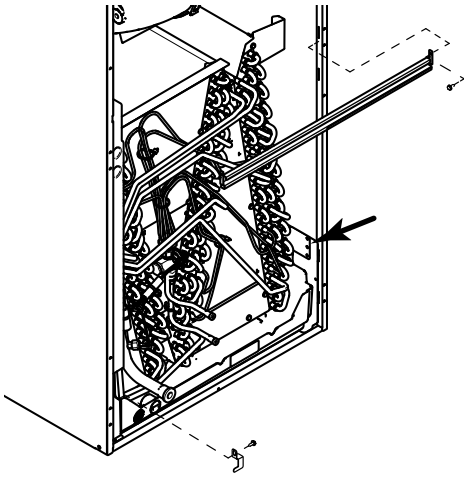
Follow the conversion steps when installing the air handler in downflow configuration.

1. Remove the front panels from the air handler. The coil and line set panel do not need to be separated.
2. Remove the fasteners on both sides of the coil.

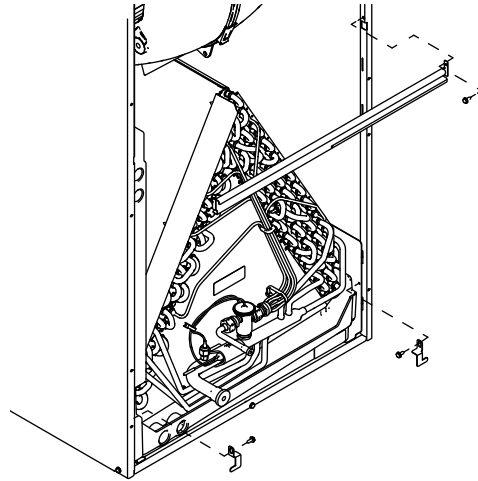
**Note:** The TEM8A0C48 and TEM8A0C60 will have a coil retaining bracket and a shipping bracket. All other coils will have two coil retaining brackets.

3. Remove the two screws holding the center horizontal bracket and rotate out of place. Retain parts.

**Figure 2. TEM8A0C48 and TEM8A0C60 Only**

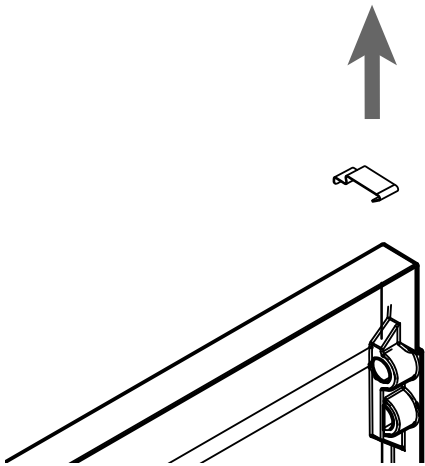


**Figure 3. All other models**



4. For the TEM8A0C48 and TEM8A0C60, remove the drain pan support bracket at the top of the drain pan and discard.

**Note:** The drain pan support bracket should be removed to avoid tearing the cabinet insulation.

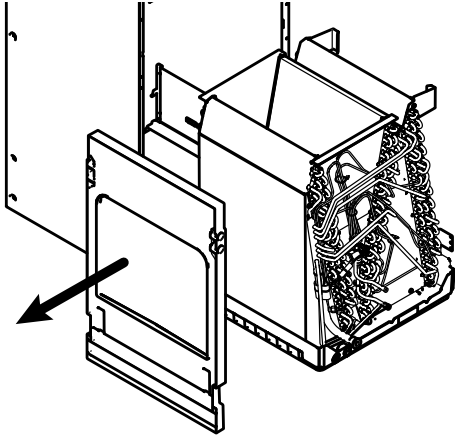


# Coil Conversion Instructions

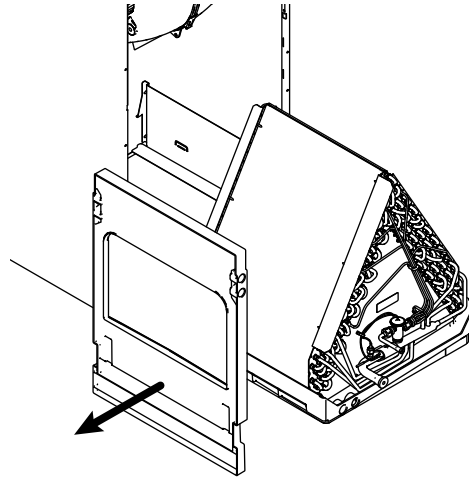
**Table 11. Downflow (continued)**

5. Slide the coil assembly out. Remove and discard the horizontal drain pan.

**Figure 4. TEM8A0C48 and TEM8A0C60 Only**

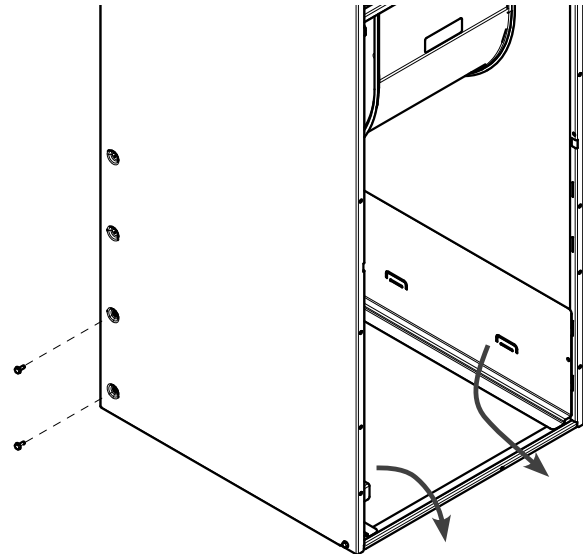


**Figure 5. All other models**



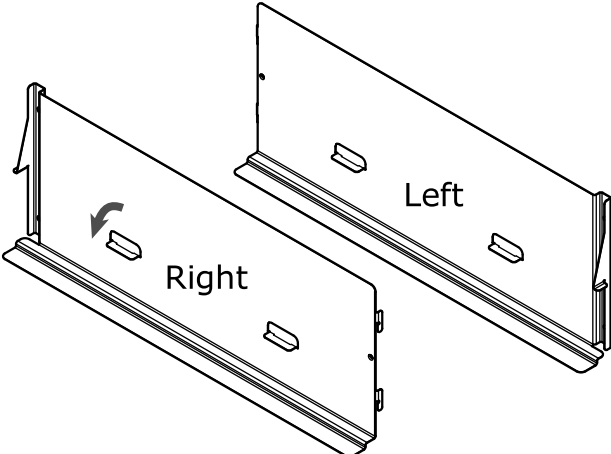
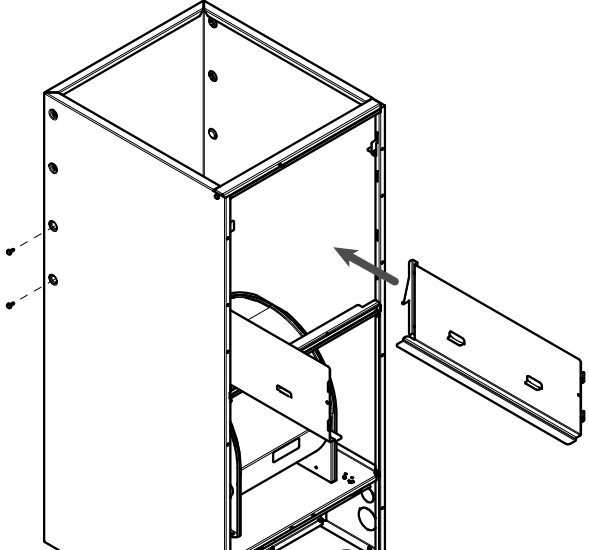
6. On both sides of the cabinet, remove the two screws that hold the coil support brackets and retain for later use. Seal the holes to prevent air leakage.
7. Rotate and lift the two coil support brackets to remove from front slots in cabinet.

**Figure 6. All models**





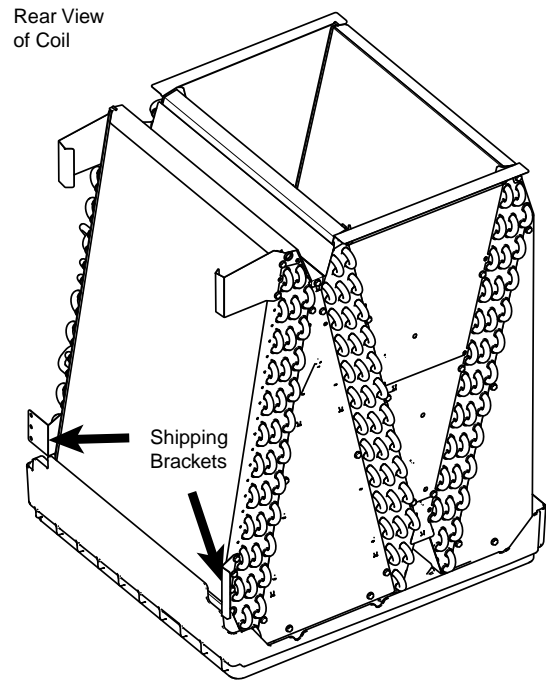
**Table 11. Downflow (continued)**

<p>8. Bend the two tabs on each of the coil support brackets. Tabs should be bent inward so they are parallel to the bottom flange.</p>	<p><b>Figure 7. All models</b></p>  <p>The diagram shows two coil support brackets, one labeled 'Left' and one labeled 'Right'. Each bracket has a long bottom flange and two tabs extending from the top edge. A curved arrow on the 'Right' bracket indicates that the tabs should be bent inward towards the bottom flange.</p>
<p>9. Rotate the unit into the downflow orientation.</p> <p>10. Pre-drill four clearance holes in the cabinet at dimples located below the location the screws were removed for the coil support brackets. There are two holes per side. See location of holes</p> <p>11. Replace the center horizontal bracket removed in Step 3. Use the screws retained from Step 3 to attach.</p> <p>12. Place coil support brackets into the lower set of slots and rotate into place. Push downward to lock into place.</p> <p>13. Secure each bracket with 2 screws that were previously removed.</p>	<p><b>Figure 8. All models</b></p>  <p>The diagram shows a perspective view of the unit's cabinet. A coil support bracket is shown being inserted into a slot on the right side of the cabinet. An arrow points from the bracket towards the slot. On the left side of the cabinet, there are four dimples, each with a dashed line pointing to a pre-drilled hole. The unit is shown in a vertical orientation, indicating it has been rotated from its previous position.</p>

**Table 11. Downflow (continued)**

14. For the TEM8A0C48 and TEM8A0C60 models, remove the two shipping brackets from the coil and discard.

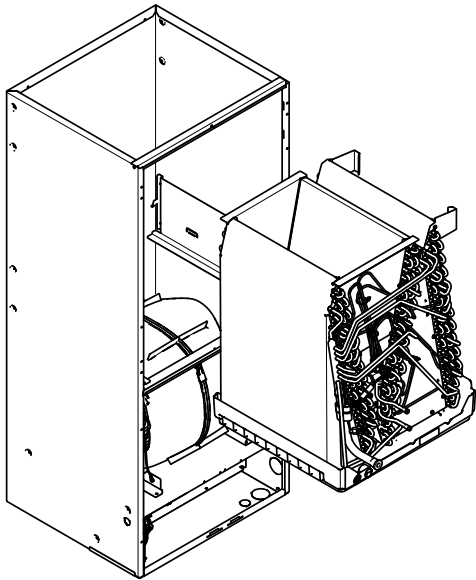
**Figure 9. TEM8A0C48 and TEM8A0C60 Only**



**Note:** It is recommended to remove the shipping brackets from the TEM8A0C48 and TEM8A0C60.

15. Slide the coil assembly back into the air handler cabinet as shown.  
16. Remove the appropriate knock out for the condensate piping.

**Figure 10. TEM8A0C48 and TEM8A0C60 Only**



**Figure 11. All other models**

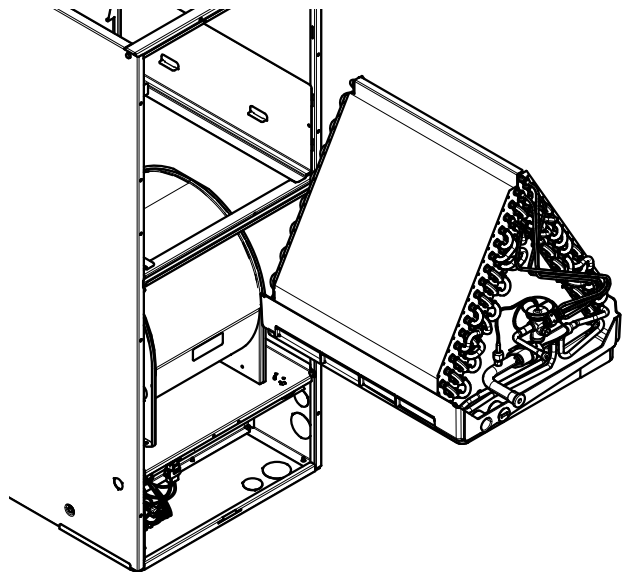


Table 11. Downflow (continued)

17. Replace all panels

Figure 12. TEM8A0C48 and TEM8A0C60 Only

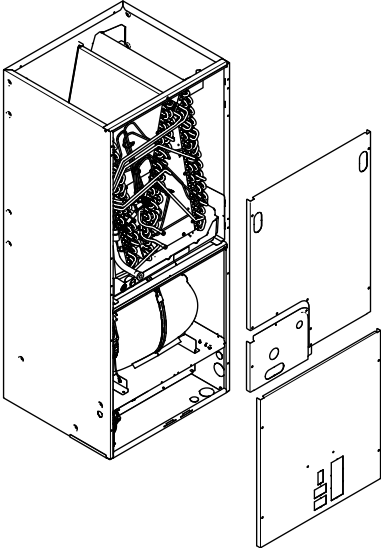
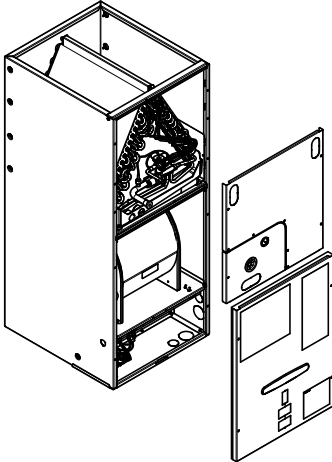


Figure 13. All other models



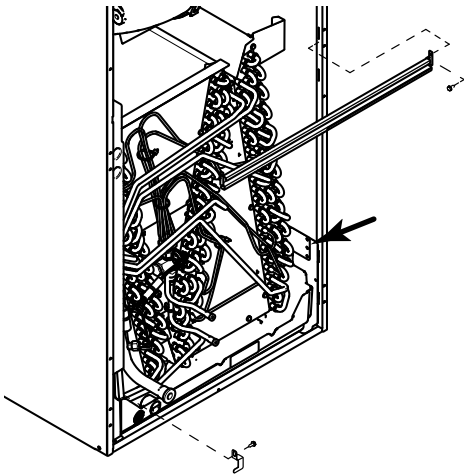
# Coil Conversion Instructions

**Table 12. Horizontal Right**

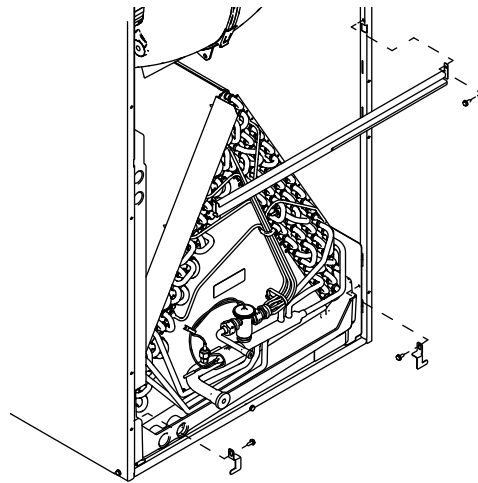
Follow the conversion steps when installing the air handler in horizontal right configuration.

18. Remove the front panels from the air handler. The coil and line set panel do not need to be separated.
19. Remove the fasteners on both sides of the coil. Retain the coil retaining brackets and screws.  
**Note:** The TEM8A0C48 and TEM8A0C60 will have a coil retaining bracket and a shipping bracket. All other coils will have two coil retaining brackets.
20. Remove the two screws holding the center horizontal bracket and rotate out of place. Retain parts.

**Figure 14. TEM8A0C48 and TEM8A0C60 Only**

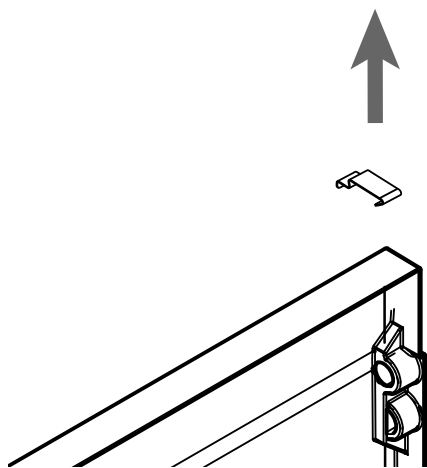


**Figure 15. All other models**



21. Make note of the horizontal drain pan orientation (up/down).
22. For the TEM8A0C48 and TEM8A0C60, remove the drain pan support bracket at the top of the drain pan and retain for later use.  
**Note:** The drain pan support bracket should be removed to avoid tearing the cabinet insulation.

**Figure 16. TEM8A0C48 and TEM8A0C60 Only**



**Table 12. Horizontal Right (continued)**

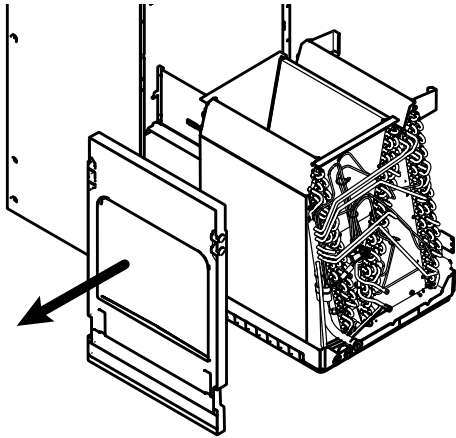
23. Slide the coil assembly out.
24. Change location of the front and rear water diverter brackets by removing the screws on the water diverter brackets that are located on the left side of the coil. Attach the water diverters to the right hand side of the coil using the same screws.

**Important:** The coil slabs are different and the mount hole locations will vary. See the illustrations on the following pages that correspond to the unit tonnage to see the correct mounting position of the water diverter bracket.

**Important:** The water diverter brackets are not symmetrical and will vary by tonnage.

**Important:** There is no change required for the TEM8A0C48 and TEM8A0C60 water diverters.

**Figure 17. TEM8A0C48 and TEM8A0C60 Only**



**Figure 18. All other models**

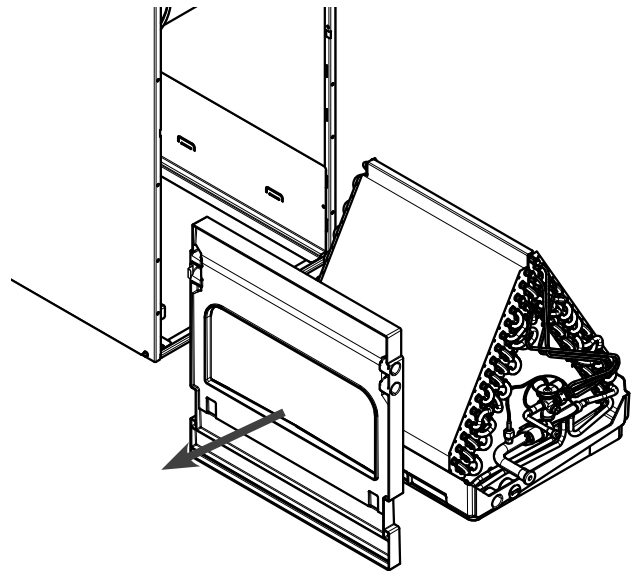


Table 12. Horizontal Right (continued)

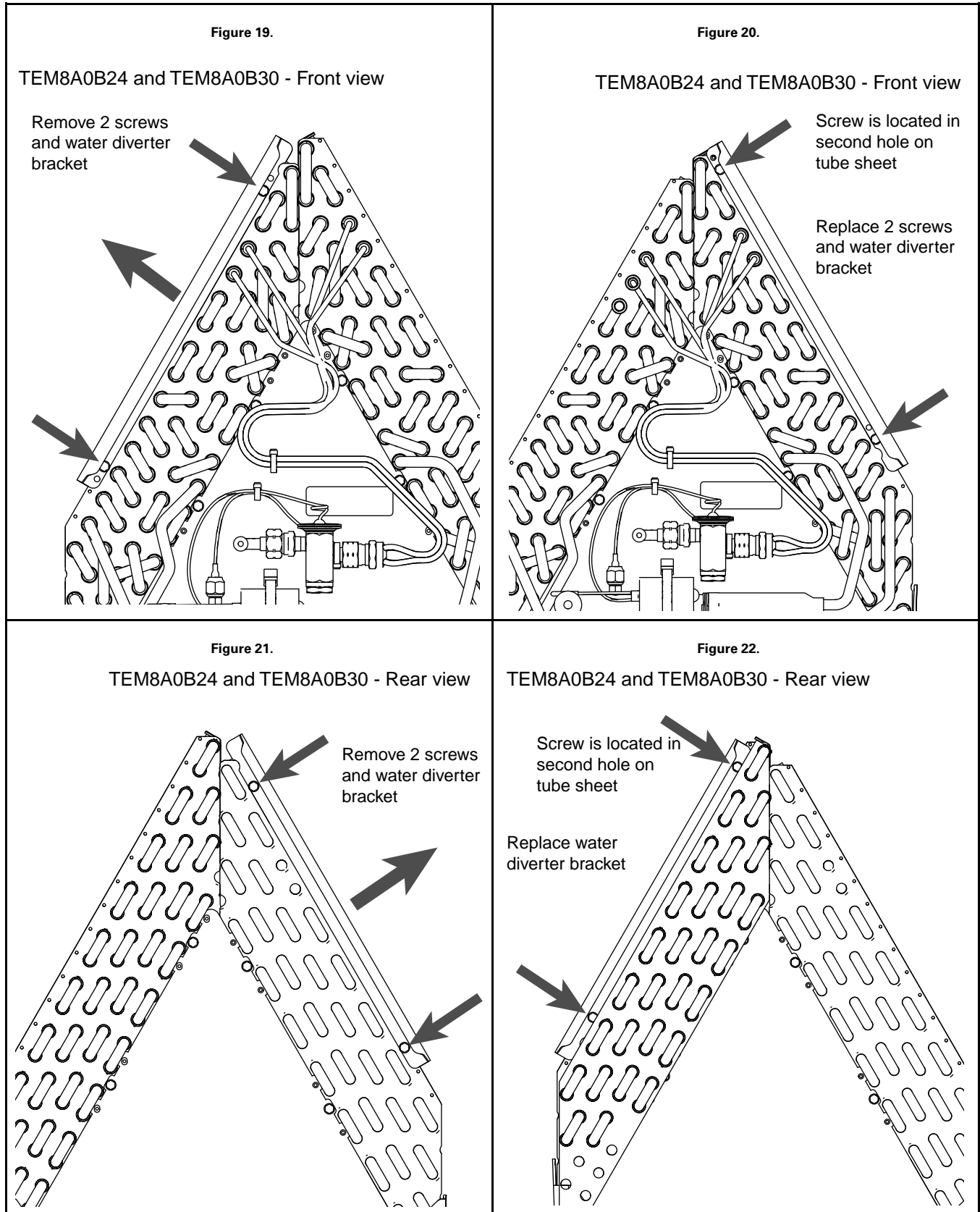
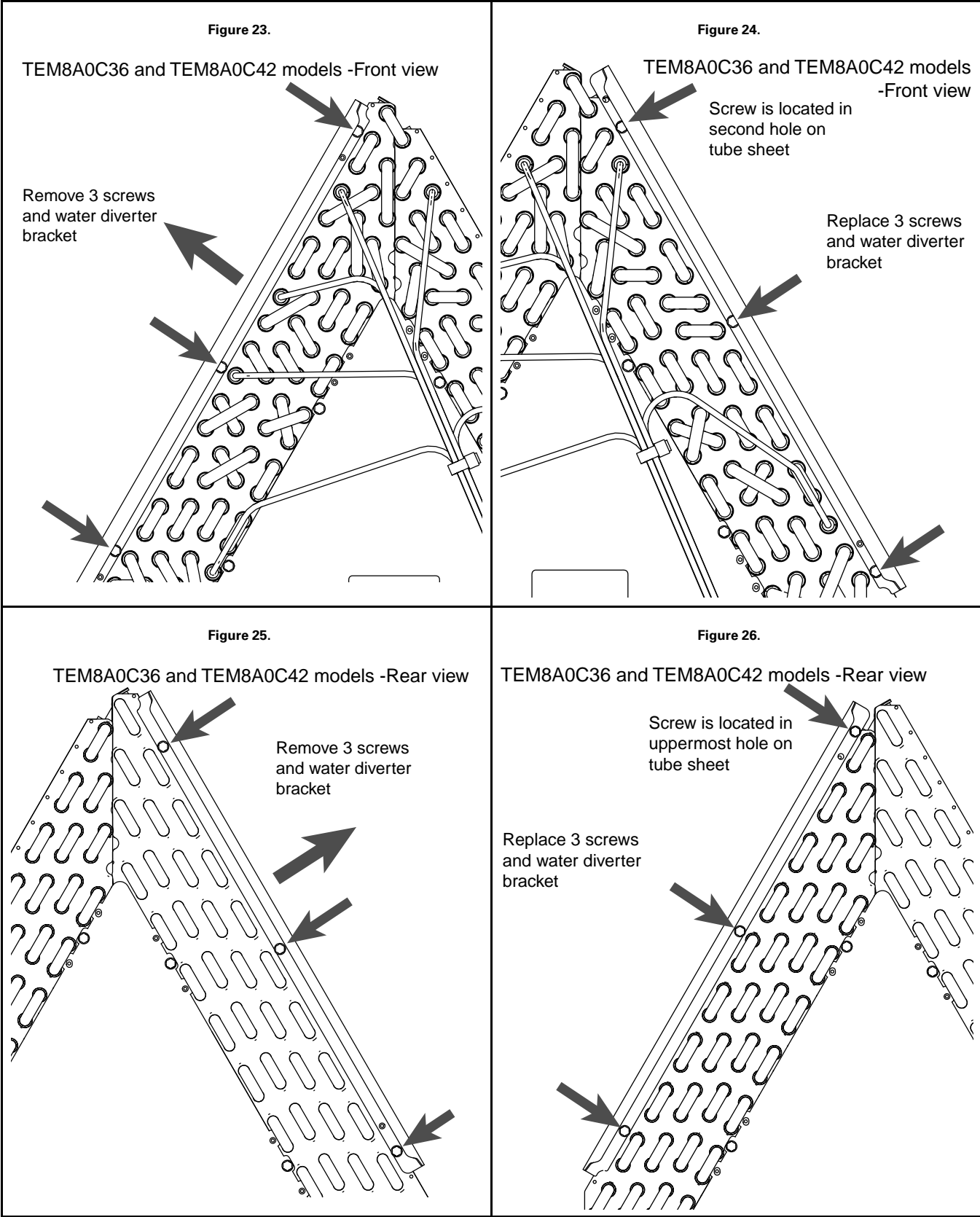
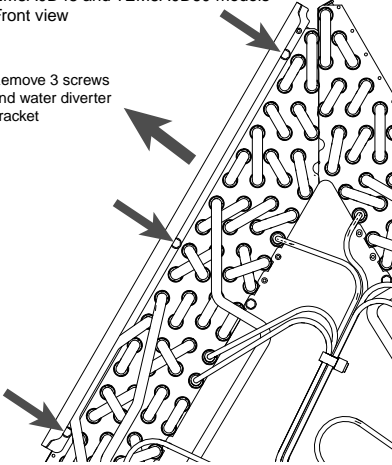
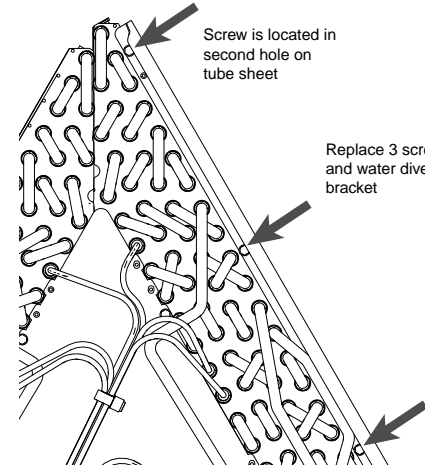
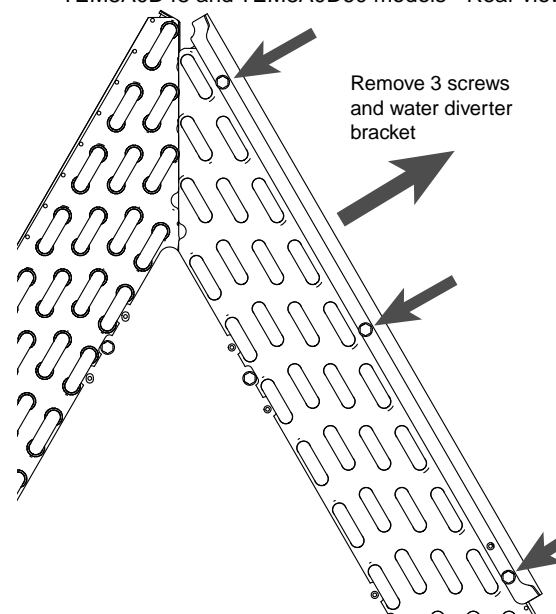
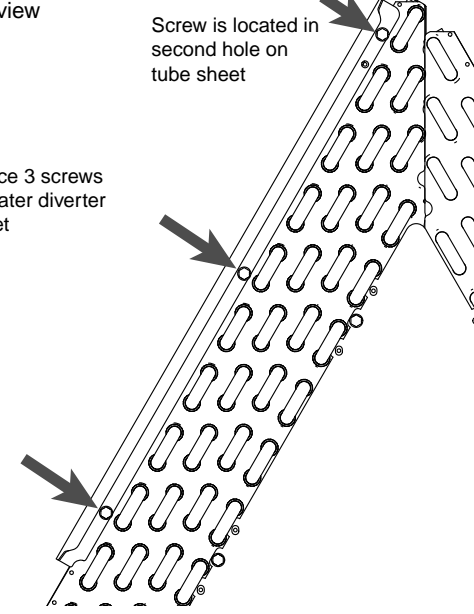


Table 12. Horizontal Right (continued)



# Coil Conversion Instructions

**Table 12. Horizontal Right (continued)**

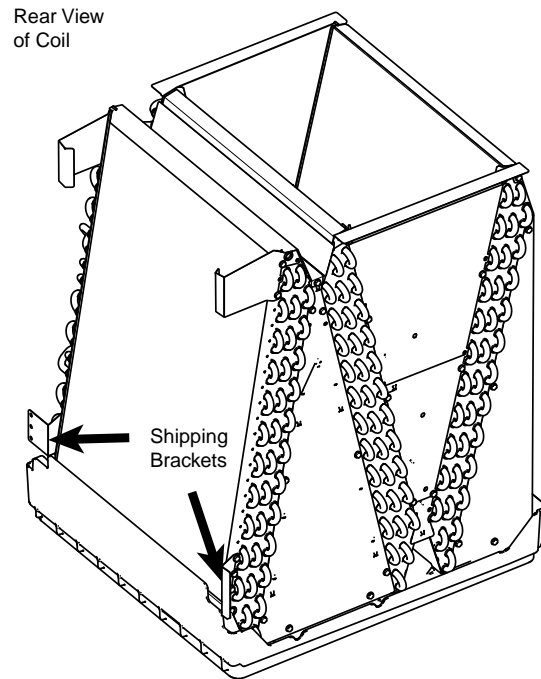
<p><b>Figure 27.</b> TEM8A0D48 and TEM8A0D60 models - Front view</p> <p>Remove 3 screws and water diverter bracket</p> 	<p><b>Figure 28.</b> TEM8A0D48 and TEM8A0D60 models - Front view</p> <p>Screw is located in second hole on tube sheet</p> <p>Replace 3 screws and water diverter bracket</p> 
<p><b>Figure 29.</b> TEM8A0D48 and TEM8A0D60 models - Rear view</p> <p>Remove 3 screws and water diverter bracket</p> 	<p><b>Figure 30.</b> TEM8A0D48 and TEM8A0D60 models - Rear view</p> <p>Screw is located in second hole on tube sheet</p> <p>Replace 3 screws and water diverter bracket</p> 
<p><b>Important:</b> There is no change required for the TEM8A0C48 and TEM8A0C60 water diverters.</p>	



**Table 12. Horizontal Right (continued)**

25. For the TEM8A0C48 and TEM8A0C60 models, remove the two shipping brackets from the coil and discard.

**Figure 31. TEM8A0C48 and TEM8A0C60 Only**

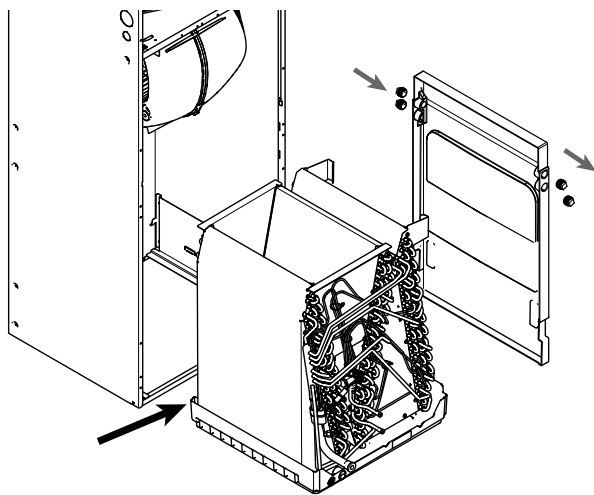


26. Relocate the horizontal drain pan from the left side of the coil to the right side.

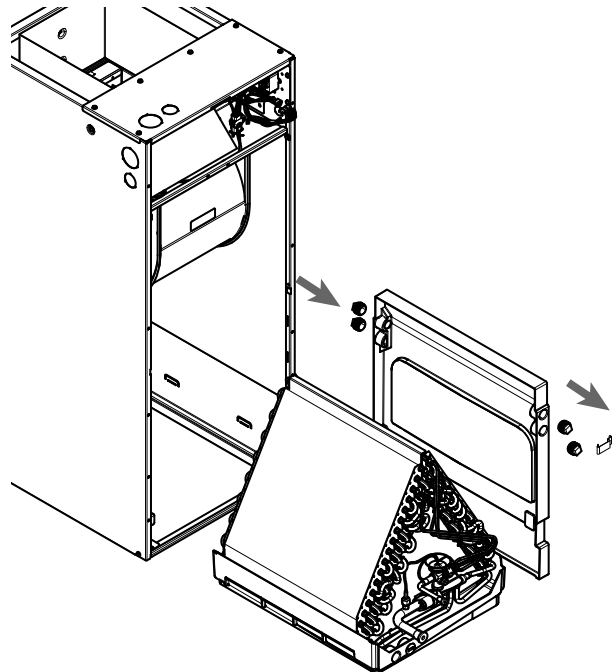
27. Remove the two drain plugs and the drain pan support bracket from the front of the drain pan and insert them in the drains at the rear of the drain pan.

**Note:** For the TEM8A0C48 and TEM8A0C60, the drain pan support bracket should have been removed earlier.

**Figure 32. TEM8A0C48 and TEM8A0C60 Only**



**Figure 33. All other models**

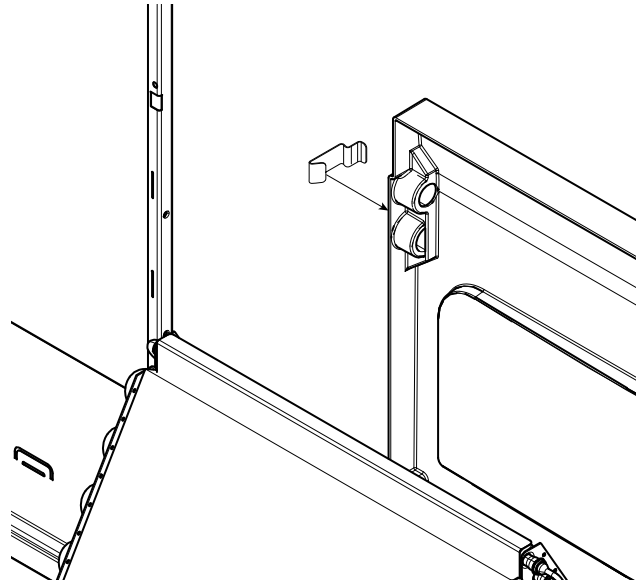


**Table 12. Horizontal Right (continued)**

28. Reinstall the drain pan support bracket. The bracket should be located between the two drain plugs as shown.

**Note:** For the TEM8A0C48 and TEM8A0C60 models only, to avoid tearing the interior insulation, the drain pan support bracket should be installed after the coil has been put into the unit.

**Figure 34. All other models**

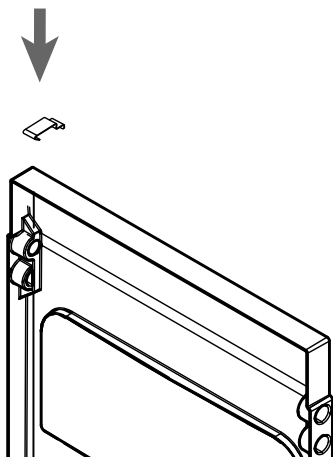


29. Slide the coil assembly back into the air handler cabinet.

**Important:** Make sure that the coil corner locks in place under the tab in the side left bracket to support the coil weight in the horizontal right position.

30. For the TEM8A0C48 and TEM80C60 only, install the drain pan support bracket on the top of the drain pan opposite the drain ports and as close to the end as possible

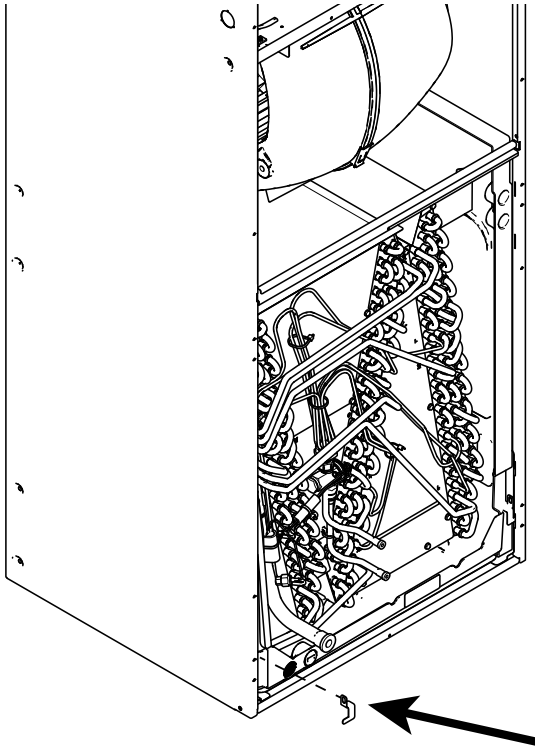
**Figure 35. TEM8A0C48 and TEM8A0C60 Only**



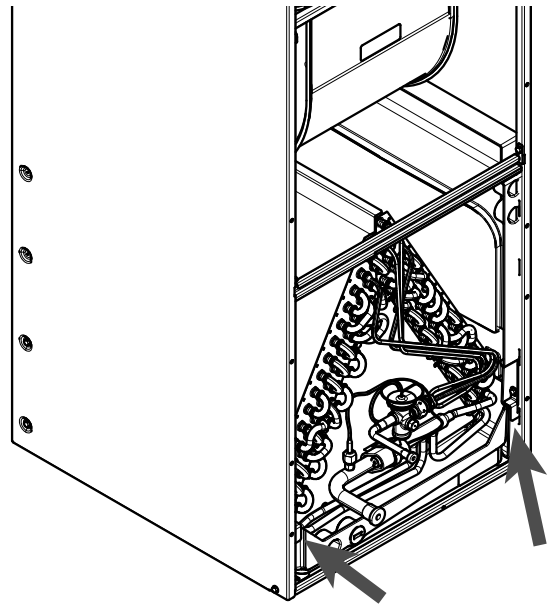
**Table 12. Horizontal Right (continued)**

31. Replace the center horizontal bracket using screws removed earlier in Step 3.
32. Replace the two coil retaining brackets removed in a previous step.  
**Note:** The TEM8A0C48 and TEM8A0C60 will have only one coil retaining bracket.
33. Replace all panels.

**Figure 36. TEM8A0C48 and TEM8A0C60 Only**



**Figure 37. All other models**



# 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"><li><input type="checkbox"/> All wiring connections are tight and properly secured.</li><li><input type="checkbox"/> Voltage and running current are within limits.</li><li><input type="checkbox"/> All refrigerant lines (internal and external to equipment) are isolated, secure, and not in direct contact with each other or structure.</li><li><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.</li><li><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.</li><li><input type="checkbox"/> Ductwork is sealed and insulated.</li><li><input type="checkbox"/> All drain lines are clear with joints properly sealed. Pour water into drain pan to confirm proper drainage. Provide enough water to ensure drain trap is primed.</li><li><input type="checkbox"/> For TEM8 models, set the heater size in the Configuration Menu.</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Supply registers and return grilles are open, unobstructed, and air filter is installed.</li><li><input type="checkbox"/> Indoor blower and outdoor fan are operating smoothly and without obstruction.</li><li><input type="checkbox"/> Indoor blower motor set on correct speed setting to deliver required CFM.</li><li><input type="checkbox"/> Cover panels are in place and properly tightened.</li><li><input type="checkbox"/> For gas heating systems, manifold pressure has been checked and all gas line connections are tight and leak free.</li><li><input type="checkbox"/> For gas heating systems, flue gas is properly vented.</li><li><input type="checkbox"/> System functions safely and properly in all modes.</li><li><input type="checkbox"/> Owner has been instructed on use of system and given manual.</li></ul>
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