

# Tempspec Leaf Vertical Stack Fan Coil Unit Models



## **INSTALLATION, OPERATION AND MAINTENANCE MANUAL**

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## 1 Design and Take-off Precautions

Always refer to the job submittal for job specific information.

Attention should be paid to the height of drywall which encapsulates ductwork in a bulkhead. Note the height of the side supply air opening shown in the submittal and ensure that the drywall does not interfere with the side wall grille. Make allowance for the 1" flange around the grille.

The TL vertical stacked fan coil unit is designed to have drywall applied directly to the face of the unit. Floor sleeves and extension sleeves through shear walls are not included.

It is important to accurately locate the floor sleeve relative to the fan coil and the drywall. Also note that the return air panel of the type which attaches with a quarter-turn fasteners cannot be used with a sleeve and 1/2" drywall must be directly attached to the front of the unit.

## 2 Receiving Inspection

The entire shipment should be inspected for damage, either readily visible or concealed. Any damage must be noted on the freight bill by the carrier's agent and Temspec notified within 24 hours.

Check riser projections at each end of the cabinet for damage that would prevent making an acceptable piping connection.

Check internal piping, coil, and valve packages for possible transit damage. If contractor / installer deems it necessary to tighten mechanical fittings Temspec does not assume any responsibility for this procedure. It is stressed that the component manufacturer's recommended procedures be strictly followed.

Check to make sure the drain pan overflow switch did not come loose or shift out of place during shipping

Thermostats, and other accessories which have been shipped separately should be inspected for transit damage.

If the unit has a painted finish, do not remove the protective packaging material until after the unit is set in position.

### 2.1 Electrical Connection

It is assumed that the fan coil unit will be in a dedicated electrical circuit. If the unit is to be in a circuit which includes electrical outlets or other electrical devices, Temspec must be informed prior to releasing the units for production.

### 2.2 Handling

Avoid dropping or jarring the fan coil unit during offloading and moving the unit into position. Do not lift the unit using the riser pipes.

Unless otherwise requested by the customer at the time of shop drawing approval, the cabinet insulation is left intact, covering the supply air openings and, if applicable, the secondary return air opening to prevent dust, snow, or rain from entering the unit. The installer is responsible for cutting out the insulation and buttering the cut edge prior to installing the grilles.

### 2.3 Accessories

Do not install grilles or thermostats until after the walls have been painted. Caution the painter against spraying over the labels on the front cover of the unit.

## 3 Installation

### 3.1 Identification

The fan coil unit has a label pasted on the motor cover panel for furred in units, or on a panel inside for painted units.

The label shows either the floor and riser number or the room number. The unit must be placed in the correct location in the building in accordance with the label.

### 3.2 Handling

If the unit has risers attached, do not lift the unit using the riser pipes.

The fan coils and risers must be kept dry, so protect them from rain and snow.

### 3.3 Installation of Units with Risers Attached

A rectangular opening is made in the floor slab, usually sleeved before pouring the floor. Refer to the catalog or submittals for sizes.

Rotate the unit from the horizontal position to vertical so that the bottom end of the risers inserts into the expanded end of the risers on the unit below. 2" is allowed in the riser length for the depth of the insertion. Shim the unit plumb to avoid standing water.

Before making the solder joint, ensure that the run outs from the supply and return risers are centered in the slots in the cabinet. If this is not done there is considerable risk of distorting the run out when the hot water riser expands causing the run out to contact the edge of the slot in the sheet metal potentially causing failures or leaks. Also ensure that the condensate riser stub out is at 90° to the cabinet so that the drain hose is not kinked.

Use solder to connect the risers. Do not use SilFos (brazing) as this will cause the pipe to overheat and the insulation to be damaged. Connect the risers by soldering (not brazing) using 95/5 solder. An additional cap of 50/50 solder can be added for extra strength.

Caution must be exercised not to strain the coil connection. Excessive pressure in any direction can cause the coil casing to cut into the coil connection stub or cause it to bend and lead to leaks.

If the risers are shipped loose, the insulation in the riser inset holes will need to be cut. To do this simply cut an “X” in the hole to allow the stub-out to enter the unit with minimal insulation damage.

Ensure that the horizontal run-out from each riser is centered in the slot in the cabinet and that the run-out from the riser is at 90° as it enters the cabinet, prior to soldering the risers. Anchoring the risers to the floor slabs is the responsibility of the contractor.

Shim the unit plumb to avoid standing water. It is not necessary to use a pad under the unit. Fire stopping the floor opening and making good the riser insulation at the floor opening is the responsibility of the contractor. Check that the drain hose is not kinked before soldering the condensate riser.

The fan coil unit has unions at the shut off valves. These fittings must be checked prior to pressure testing the system by the contractor as part of the installation procedure. Mechanical fittings can loosen during transportation and handling. If contractor /installer deem it necessary to tighten mechanical fittings Temspec does not assume any responsibility for this procedure. **It is stressed that the component manufacturer’s recommended procedures be strictly followed.**

The coil is pressure tested hydrostatically at the factory using a propylene glycol solution. Trace amounts of this solution are allowed to remain in the coil to ensure that the coil does not freeze during transportation. After testing on site with water the fan coil unit must not be exposed to freezing temperatures.

Riser anchoring is required for two purposes. The risers are anchored to the floor slab at one or more points in the height of the building so that they do not slip down under gravity. The second reason is to spread the expansion in opposite directions from the anchor point. Typically, risers will be anchored at the midpoint of the height of the building. If there are riser expansion loops, the anchor point will be at the midpoint between two sets of loops. For example, in a 16 story building there will be a loop on the hot water riser on floor 8 and anchors at floors 4 and 12. After anchoring, the risers are in effect attached to the building structure, so it does not matter if the plastic straps holding the risers to the unit break off after installation. **Temspec does not advise on the location or method of anchoring as this is the responsibility of the engineering company retained to design the riser system.**

Make good the riser insulation between floors.

Firestop the floor opening in accordance with code.

### 3.4 Flushing and Testing

The fan coil is normally equipped with ball type shut off valves. The unit is shipped with the ball valves open to the coil.

After checking mechanical fittings inside the unit for tightness, it is recommended that the units on each riser stack are pressure tested using compressed air or nitrogen before filling with water. Do not exceed 300PSI, or that which the supplied components were designed. Sustained excess pressures may cause damage to components, including leaks.

Close the ball valves and flush the riser system.

Open the supply side ball valve and bleed air from the coils. The coil has a manual air vent for this purpose. The top of each riser should also have an air vent (not provided by the factory).

Test the units and risers hydrostatically. Open the return side ball valve after testing.

Check that the strainer mesh is not choked, if there are strainers included with the unit.

City water is very corrosive to brass components. Provide water treatment as soon as the system is charged to avoid premature leaks and/or avoid failure of internal components.

### 3.5 Drywall Installation

The fan coil model series “TLG” has a cabinet which is designed to be furred-in. Drywall can be directly attached to the cabinet, or the unit can be framed.

Direct Application – The hinged air panel must be used. It is designed to fit the ½” drywall flange around the return air / access opening on the unit. Use drywall screws no longer than 1 ¼” and follow the instructions on the page in the submittals which shows where the screws can be located to avoid damaging internal components. When using the hinged panel, drywall **MUST** be attached to the front. The sides and back can be framed.

Framing – Frame the unit using metal studs. It is preferable that the stud does not touch the fan coil cabinet so that any slight vibration which may exist is not transferred to the stud.

Before installing the thermostat and grilles, the walls must be painted. Instruct the painter not to spray over the labels on the unit. After installation, dust must be vacuumed from the coil surfaces, the drain pan, the motor windings, and the cabinet insulation.

### 3.6 Ducted Units

Remove the supply air opening knock-out in the top panel of the fan coil. Cut out the cabinet insulation from the opening and butter the cut edge if it is glass fiber insulation. Attach the supply air duct.

Note: that supply air duct flanges are not provided by the factory.

### 3.7 Electrical Connection

The unit has a single point connection at the junction box inside the unit. It might also have a disconnect switch and/or a fuse. All electrical wiring must be in accordance with the current version of the national and local codes. A qualified electrician must carry out the work. The junction box is located behind the fan/motor shield. Electrical power to the unit should be disconnected by opening the remote disconnect device prior to removing the fan/motor shield. All wiring must enter the unit through designated openings and not through the riser stub out openings. Only copper wiring shall be used for connections with the unit.

### 3.8 Supply Air Grille Installation

The grille is a snap-in fit into the collar on the unit. If the unit has a ducted supply, side supply air grilles are provided with a balancing damper. If the unit has two unit mounted grilles and is not ducted, one of the grilles is provided with a damper. This grille is to be fitted to the opening which requires the lesser of the two air flows (for example the bedroom).

### 3.9 Return Air/Access Panel Installation

#### 3.9.1 Panel with hinged access door

Remove the hinged door by raising to the horizontal position and gently pull out past the hinge pins.

Place the return air panel in place and align the pre-drilled holes and secure using 4 sheet metal screws.

Re-install the hinged filter access door using the same technique used to remove it.

#### 3.9.2 Panel with quarter turn fasteners

Insert the square shaft of the fastener into the recessed hole in the panel. Push the plastic washer onto the shaft followed by the retainer. Push the retainer as far as possible so that it firmly holds the fastener in place.

Put the pawl onto the shaft and position it so that the pawl will pull the panel tightly against the wall. Tighten the lock screw in the pawl.

Install the filter in the panel, hook the panel of the bottom collar of the fan coil unit, rotate the panel upright so that is against the wall and turn the head of the fastener clockwise to the locked position.

### 3.10 Top Extension

If a top extension has been provided to trim the unit up to the ceiling, the extension overlaps the top of the unit by

1-1/2". Use sheet metal screws to attach the extension directly to the top of the unit.

### 3.11 Riser Pipe Cover

If a riser cover has been provided, it is installed after the floor opening has been fire-stopped. An offset bracket is included, and which is screwed to the front of the side face of the unit. An angle wall bracket is also provided. The cover snaps into the offset bracket and is screwed to the wall bracket. Refer to the catalog and submittal for illustrations of the bracket arrangements.

### 3.12 Thermostat Installation

**Unit mounted thermostat** – Connect the wires from the thermostat to the wire harness usually inside the electrical box using the plug provided. Fit the thermostat onto the electrical box using the machine screws provided. The electrical box is located on the front of the unit, above the return air panel.

**Remote mounted thermostat** – Run low voltage wires from the 24V thermostat on the wall back to the terminal strip inside the unit.

A motor speed board in the unit will allow adjustment of the fan speeds if the factory settings are not suitable.

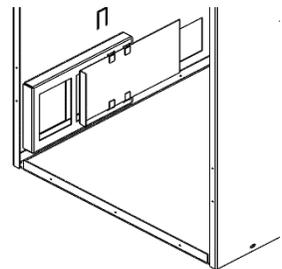
Caution: Adjusting fan RPM to a higher speed may result in excessive air flow noise.

## 4 Outdoor Air Connection

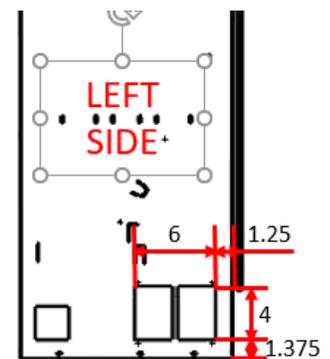
Tempspec Leaf units may have an outdoor air connection located at the bottom of the unit below the drain pan.

### 4.1 Manual Damper

One option with an outdoor option is to have a manual damper in the unit. This allows for manual balancing of the amount of outdoor air coming into the unit.



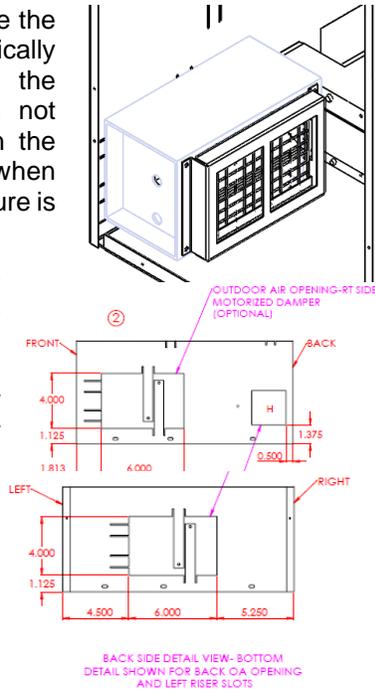
The standard opening is 4"x6". There are four pilot holes for attaching your duct to the unit. All unit sizes have the opening located 1-1/4" from the side of the unit, and 1-3/8" up from the bottom of the unit. An example for the left side is to the right. The options for locations are, left, right, back-right, and back-left.



## 4.2 Automatic Damper

Another option is to have the damper be automatically controlled to shut off the outdoor air when it is not desired. Normally when the room is unoccupied or when the outdoor air temperature is too low.

The opening for the automatic damper is 4"x6". The opening is located 1-1/4" from bottom of the unit. For openings on the left or right the opening is located 1-13/16" back from the front of the unit. For units with back openings, the opening is located 4-1/2" from the side with the risers.



## 5 Operating Instructions

Turn on the disconnect switch located behind the fan enclosure cover to the "On" position.

### 5.1 Standard Thermostat Digital Programmable Thermostat

Select the mode, RUN, HALT, or STOP, by pressing the "Mode" button

Adjust the setpoint to desired temperature setting using the up/down arrow buttons.

Toggle the "Fan" button between auto and continuous. The fan speed will vary based on the difference between room temperature and room setpoint. In Auto mode, the fan will shut off when there is no heating/ cooling demand, this is the most economical operating mode. In continuous the fan will run at a low speed.

The "On/Off" button turns the unit on or off.

The thermostat allows for 7 day scheduling. The battery back-up lasts for 5 years.

See thermostat operating instructions for further information. Refer to thermostat operating instructions for other thermostats used.

Note: the thermostat must have 0-10VDC fan signal to control fan speed. A motor speed board model SPDM will allow the contractor to adjust the maximum fan speed if the factory set point is not suitable. If a thermostat with a 3-speed fan switch is used, a digital to analogue interface board model EVO/10Y-4Spd must be used to convert the fan signal to a 0-10VDC.

## 5.2 Adjusting the maximum airflow

The maximum airflow is factory set to the closest nominal design airflow, or to the safest the low speed to work with electric heat but can be field adjusted if needed.

With a 0-10VDC thermostat fan signal, the max CFM can be adjusted by adjusting the blue knob on the EBM fan board in the electrical box. See the picture and reference chart to the left. To increase the maximum airflow, turn the adjustment clockwise toward 100% and to reduce the maximum airflow, adjust counter clock-wise toward 0%. The chart below indicates the % flow, airflow, relative to cabinet size and external static pressure.

If a 3 speed fan control thermostat is used, the airflow for each speed is factory set to be 50% on low speed, 75% on medium speed, and 100% on high speed, or 70%, 85%, and 100% for units with electric heat. Each motor speed airflow may be adjusted by turning the adjustment dials on the EVO board. Call 1=low speed, call 2=medium speed and call 3=high speed.



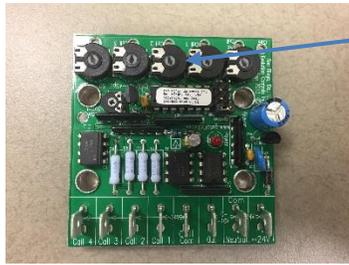
EBM Max CFM Adjustment Board

Rotate dial clockwise to increase max airflow or counterclockwise to decrease. (Used with 0-10VDC fan speed signal)

Table 1: EBM Fan Speed Controller Setting Reference (230V motors)

Cabinet Size	CFM/ L/S	Dial Position @ free blow	Dial Position @ 0.2"/ 50pa ESP	Dial Position @ 0.4"/ 100pa ESP
03 -04	200/94	60%	-	-
03 -04	300/145	70%	85%	-
03 -04	400/190	90%	100%	-
06 -08	500/235	60%	70%	80%
06 -08	600/285	70%	75%	85%
06 -08	700/330	80%	85%	95%
06 -08	800/380	90%	95%	-
10-12	900/425	55%	65%	70%
10-12	1000/470	65%	70%	75%
10-12	1100/520	75%	75%	80%
10-12	1200/565	80%	85%	90%

Warning: if the maximum CFM is adjusted to a value above the design airflow, excessive air noise could occur



EVO 4-Spd CFM Adjustment Board

Rotate dial(s) clockwise to increase max airflow or counterclockwise to decrease. Call 1, 2 & 3 are used with 3 speed fan thermostats. (Call 4 not used) No call must be at zero flow.

## 6 Sequence of Operation

Note: always refer to wiring diagram on the motor cover panel to determine the model and type of fan coil. This can be viewed by lifting the hinged filter access panel door.

### 6.1 2-Pipe Heating/Cooling Units

The control valve is activated by the cool and heat outputs from the thermostat which are connected to an aquastat.

On a call for cooling from the thermostat and the water temperature is less than 65F, the aquastat energizes the control valve. If the water temperature rises above 85F, the aquastat de-energizes the control valve.

On a call for heating from the thermostat and the water temperature is greater than 85F, the aquastat energizes the control valve. If the water temperature drops below 65F, the aquastat de-energizes the control valve.

The aquastat has black, yellow, and orange wire leads. The switch closes for heating at 85F +/- 5F through BL and ORA and cooling at 65F +/- 5F through BL and YEL.

### 6.2 2-Pipe Heating/Cooling Auxiliary Electric Heat Unit

The control valve and electric heat relay are activated by the cool and heat outputs of the thermostat which are connected to two aquastats labeled A1 and A-2 on the wiring diagram.

On a call for cooling from the thermostat and the water temperature is less than 65F, the A1 aquastat energizes the control valve. If the water temperature rises above 85F, the aquastat deenergizes the control valve.

On a call for heating from the thermostat and the water temperature is more than 85F, the A1 aquastat energizes the control valve. If the water drops below 65F, the aquastat de-energizes the control valve and the A2 aquastat energizes the electric heat relay.

The A1 aquastat has black, yellow, and orange wire leads. The switch closes for heating at 85F +/- 5F through BL and ORA and cooling at 65F +/- 5F through BL and YEL. The A2 aquastat has 2 brown wire leads. The switch opens at 85F +/- 5F and closes at 65F +/- 5F.

### 6.3 2-Pipe Heating/Cooling Total Electric Heat Unit

The control valve and electric heat relay are activated by the cool and heat outputs of the thermostat. No aquastats are used.

On a call for cooling from the thermostat, the thermostat energizes the chld water control valve.

On a call for heating from the thermostat, the thermostat heat output energizes the electric heat relay. The control valve remains closed.

### 6.4 4-Pipe Heating/Cooling Unit

The hot water control valve and chilled water control valve are activated by the cool and heat outputs of the thermostat. No aquastats are used.

On a call for cooling from the thermostat, the thermostat cool output energizes the chld water control valve.

On a call for heating from the thermostat, the thermostat heat output energizes the heating water control valve

Note: See submittal for more information specific to the unit and refer to the wiring diagram on the motor cover.

## 7 Maintenance

Always isolate the unit electrically before removing the front access panel. Do this by opening the circuit breaker (or other switching device) in the distribution panel in the suite. Do not use the fan switch as the means of isolation. There is a high risk of electrocution if the unit is improperly isolated. If in doubt have a qualified electrician perform the service work.

Ensure that the fan has stopped rotating before proceeding to work within the unit.

If the unit is equipped with a fuse or circuit breaker, do not change out either of these devices with ones of a higher Amp rating. The purpose of a fuse or circuit breaker is to protect the power wiring to the unit.

Take care when working inside the unit. Sheet metal components may have sharp edges.

### 7.1 Every 3 Months

Check/replace the filter. The filter can be one of two types: a 1" thick cardboard framed type or a metal frame with filter media attached.

Table 2: Filter Size Chart (in/mm)

Unit Size	03-04	06-08	10-12
1" (25mm) Filter Size	12"x20" (305x510)	14"x25" (355x635)	16"x25" (405x635)

To access the filter, grasp the bottom of the hinged door and pull sharply forwards. Lift the door to the horizontal position. The filter is now accessible and is removed by sliding upwards out of the channels attached to the inside of the grille.

## 7.2 Annually (before the start of the cooling season)

Remove the return air/access panel from the wall. Remove the two sheet metal screws which secure the panel that shields the fan assembly. Pull up on the panel to remove.

Vacuum the drain pan and check that the drain outlet is not blocked. Pour water into the pan and check that it drains quickly. If it appears to be partly blocked, remove, and clean the drain hose beneath the pan.

If the coil surface is dirty, vacuum the surface which faces the room. Take care not to damage the aluminum fins on the coil. If the fins are flattened, the performance of the unit will be reduced.

Inspect the surface of the cabinet liner for evidence of dampness. The liner should be completely dry in all areas. Vacuum excessive dust from the liner, taking care not to damage the black acrylic coating on the liner. Do not run the unit if the liner is damp as this can promote mold growth. Determine the cause of the dampness. If there is evidence of mold growth it might be necessary to replace part or all of the liner. If in doubt consult a remediation specialist.

Fan, fan motor, control valve(s), electric heater, drain pan over-flow switch, and thermostat do not require routine maintenance.

Note: fan motor has sealed bearings and does not require additional lubrication.

## 8 Troubleshooting /Diagnosis

Most problems can be promptly diagnosed at the thermostat. The fan assembly is accessible and removable through the return air opening, after removal of the return air grill and fan access cover. The fan assembly has a five wire plug harness for power and 0-10VDC speed control signal. If the unit has an aquastat, it is located on the coil piping, which is accessible through the return air opening after the fan access cover is removed.

### 8.1 If Fan Motor Fails to Start

- Check main power supply, (circuit breaker) and unit switch are “on”, and unit has power.
- Check the incoming line voltage at the motor, it should match the value on the electrical drawing (it may not match the voltage entering the unit).
- With the power off, check that the fan spins freely when rotated by hand.

- If there is a door switch, check to make sure it is functioning properly.
- Check the control signal is being sent by the thermostat.
- Check if the speed board is powered (verify on the electrical drawing).
- Check all wiring connections are tight and secure.
- Swap the motor with a working unit to see if the problem persists. If it does, replace the fan.

### 8.2 Control Valve Fails to Operate

- Check that the thermostat is programmed correctly
- Check that the thermostat is sending the correct voltage to the actuator, if not replace the thermostat.
- If there is an aquastat, check that it is opening and closing at the correct temperatures, if not replace the aquastat.
- Check that the valve can open/ close when turned by hand, if not try back flushing the system. If problem persists, replace the valve.
  - Caution applying too much force to the valve stem can damage the valve.

### 8.3 Electric Heat Coil Fails to Operate

- Check that the thermostat is programmed correctly
- Check the thermostat is sending a 24V heating signal, if not replace the thermostat
- If the unit has a 2-wire aquastat, check that the contact is closed when the water temperature is below 65F +/-5F. If not, replace the aquastat.
- Check that the air pressure-switch that senses air movement has closed contacts when the fan is turned on. If they are not, replace the pressure switch.
  - Note: a fan on low speed might not have enough air speed to trigger the pressure switch. Check while on high speed.
- Check that the relay contacts are closing when the 24V signal reaches it. If they are not, replace the relay
- Check that the high temperature sensor manual reset has not been tripped. If it has, reset it. If the contacts remain open, replace the manual reset sensor.
- Check that the high temperature sensor auto reset contacts are closed. If they are open when the temperature is low, the heating assembly will need to be replaced.

For troubleshooting help, please contact Temspec.

## 9 Fan Removal Procedure

### 9.1 All Units

- Remove the Return Air Grille and the motor cover
- Disconnect power by switching off the disconnect with the main unit disconnect
- Open the electrical enclosure and disconnect all motor wires and feed back into the motor chamber

### 9.2 Leaf 300/400 and 1000/1200 units

- Remove the screws connecting the motor base to the fan bulkhead (four for the 300/400 units and eight for 1000/1200 units)
- Slide the assembly out through the front opening making sure the motor wires are not caught on anything
- To install a new fan, follow the above steps in reverse order while making sure to align the motor wires properly

### 9.3 Leaf 600/800 units

- Unscrew the nuts for the frame support legs (found underneath the fan bulkhead)
- Once all four nuts are removed the fan and frame can be lifted and removed out of the front opening
- To install a new fan, remove the base from the new assembly then follow the above steps in reverse order while making sure to align the motor wires properly

Contact Temspec if more information is needed.

## 10 Start-up Check List

### 10.1 Receiving & Inspection

- Unit received undamaged
- Unit received as ordered

### 10.2 Handling & Installation

- Unit installed level & square
- Proper access is provided
- Proper over-current protection is provided
- Unit protected from dirt & foreign matter

### 10.3 Cooling/heating Connections

- Protect valve package components from excessive heat
- Pressure-test all piping for leaks
- Install drain lines and traps as required
- Insulate all piping as required

- Connect risers from master to secondary units if required
- Connect risers to piping package if shipped separately or supplied by others

### 10.4 Electrical Connections

- Refer to unit wiring diagram
- Connect incoming power service
- Install and connect “shipped loose” components like thermostat

### 10.5 Unit Start-up

- Check for free and proper fan rotation
- Record electrical supply voltage and amperage
- Check all wiring for secure connections
- Close all unit isolation valves
- Flush water systems
- Open all isolation valves after system flush
- Check that Erie control valve is not in the “locked” open position.
- Vent water systems as required
- All duct work and grills are in place
- Filters are in place
- Start blowers, pumps, chillers etc.
- Check all units for electrical over-load
- Check all duct work and units for air leaks
- Balance water systems as required
- The Erie control valve can be “locked” open by manually positioning the lever on the back of the valve actuator. Ensure this is released so after flushing to allow the valve to be controlled by the thermostat
- Balance air system as required
- Record all final settings for future reference
- Check piping and walls for severe vibration
- Check all dampers for proper operation (if any)
- Verify heating and cooling operation
- Ensure all access panels and grilles are securely in place
- Verify condensate is flowing
- Ensure the condensate switch did not shift during shipping or installation

## 11 Limited Warranty

TEMSPEC INCORPORATED warrants the equipment from factory defects in material or workmanship for a period of one year.

For this warranty to be valid, the unit(s) must be installed and maintained in accordance with the manufacturer's printed instructions. It does not cover parts damaged by vandalism, improper installation, maintenance, or abuse.

Should any replacement parts be required within the warranty period, they will be supplied at no charge, freight prepaid to the jobsite. The cost of labor or incidental expenses incurred in the repair or replacement of parts does not form part of this warranty.

The warranty period commences from the date of shipment, except when otherwise agreed at the point of sale (see specific warranty terms and conditions for details).

## 12 Part Sales

For replacement parts, please contact Temspec and ask for "parts sales". We can be reached by phone: 1-800-TEMSPEC or (905)-670-3595 or by email at [sales@temspec.com](mailto:sales@temspec.com).

Be sure to include the unit serial number located on the motor cover panel.