

# PTAC HYDRONIC HEAT KIT

## HVK03K and HWK03K

### Installation Instructions



#### WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



#### WARNING

DO NOT BYPASS SAFETY DEVICES

#### DESCRIPTION

The PTAC Hydronic Kit is an enclosure kit that provides complete coverage of all PTAC plumbing and coils while still allowing access to controls. The kit can only be installed where there is a central boiler for heating the water. It does not affect unit heating and cooling operations. The hydronic kit chassis slides out for service without removing any hydronic plumbing. The electrical connections are plug-in type to assist in kit installation.

**NOTE:** Heat pump models will operate on heat pump function down to the switchover temperature before operating on hydronic heat.

**Remote thermostat/ Bluetooth App MUST be used to control the unit.**



#### WARNING

##### HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



#### FREEZE PROTECTION

For PTAC Hydronic Coil freeze protection on hot water systems, the hydronic system should use an antifreeze solution. However, the addition of antifreeze will reduce the capacity of the hydronic coil and affect system sizing. The higher the antifreeze concentration, the greater the capacity reduction. Therefore, for optimum unit performance, only use an antifreeze concentration that will protect to the lowest ambient temperature expected. A 20% solution will protect to approximately 15°F. A 50% solution protect to -35°F.

Use an antifreeze that is formulated for hydronic use.

**DO NOT USE AUTOMOTIVE OR PETROLEUM BASED PRODUCTS.**

#### Tools Required

|                                |
|--------------------------------|
| 1/4 Inch Electric Drill        |
| 1/8 Inch Diameter Drill Bit    |
| Center Punch and Hammer        |
| 6 Foot Rule                    |
| Combination Square             |
| 1/4 Inch Nut Driver or Socket  |
| 5/16 Inch Nut Driver or Socket |
| Torch, Solder, Flux, etc.      |

#### JOB PREPARATION

**Before installing the hydronic kit, determine the following:**

- Whether a 2-way or 3-way normally open or normally closed valve is required.
- If an end switch is required to control the circulating pump. (Information relating to U.L. approved valves and current loads is shown on the kit label and is repeated in the following figure).

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02/2023

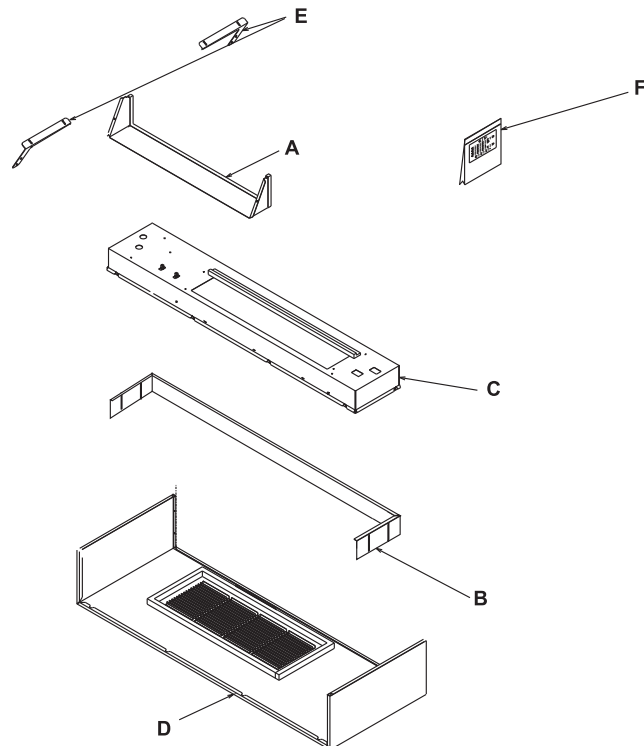


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|   |               |   |                        |
|---|---------------|---|------------------------|
| NOTE: WHEN HYDRONIC HEAT IS USED, DISREGARD THE MINIMUM CIRCUIT AMPACITY AND MAXIMUM FUSE SIZE SHOWN ON THE AUXILIARY NAMEPLATE FOR FIELD INSTALLED HEATERS. USE VALVES SHOWN ON THE MASTER UNIT NAMEPLATE. |               |   |                        |
| CAUTION: VOLTAGE RATING OF VALVE IS 24VAC AND DOES NOT CORRESPOND TO VOLTAGE RATING ON THE UNIT NAMEPLATE.  |               |   |                        |
| THIS KIT MAY BE USED WITH ONE OF THE FOLLOWING ELECTRIC CONTROL VALVES:   |               | NOTE: WHEN HYDRONIC HEAT KIT IS EMPLOYED, THE FOLLOWING LOADS OPERATE CONCURRENTLY: |                        |
|   | HOT WATER     | STEAM   |                        |
| ERIE MANUFACTURING CO.  | 654C0507EA01  | 654C0407EA01  | UNIT VOLTAGE RATING    |
|   | 654C0527EA01  | 654C0427EA01  | 230/208                |
|   | 654C0509EA01  | VS2212G14A02A   | 265                    |
|   | 654C0529EA01  | VS2212G24A02A   | FAN MOTOR AMPS         |
|   | VT2212G14A02A |   | .6                     |
| BARBER-COLMAN   | VA-1403-201   | VA-9224-201   | MOTORIZED VALVE, WATTS |
|   | VA-1403-301   | VA-9214-201   | 6.5                    |
|   | VA-3403-201   |   |                        |
| HONEYWELL   | V8043A        |   |                        |
|   | V8043B        | V8043J  |                        |
|   | V8044A        |   |                        |



Also, ensure that the following steps are completed and a hydronic model chassis is installed before installation.

**NOTE:** The hydronic chassis must have a model number in which the 10th, 11th, 12th or 13th digit is H.

1. Wall sleeve is installed and completely sealed. It must extend at least 3" and no more than 3-1/8" past the finished interior wall in order to properly install the hydronic kit.
2. All plumbing stub-outs are completed.
3. Unit chassis is uncrated, uninstalled, and **not yet connected to an electrical source.**

## INSTALLATION

The installation and servicing of the equipment referred to in this manual should be performed by qualified, experienced technicians.

Be sure to engage the services of a qualified water treatment specialist to determine what water treatment, if any, is needed. The manufacturer will not assume responsibility for equipment failures resulting from untreated or improperly treated water.

**Installation Kit Contents**

| Item | Qty. | Description  |
|------|------|--|
| A    | 1    | Transition   |
| B    | 1    | Hydronic Skirt   |
| C    | 1    | Hydronic Top Assy.   |
| D    | 1    | Hydronic Front Assy.   |
| E    | 2    | Support Brackets   |
| F    | 1    | Bag Assembly containing:<br>Installation Instructions<br>Gasket foam<br>(8) 3/8" #8 screws<br>(2) 1/2" #8 screws<br>(4) 1/2" #10 screws<br>(1) #10 machine screw<br>(1) snap bushing<br>(1) valve harness<br>(4) wire nuts |

1. Drill two 1/8" diameter holes on both sides of wall sleeve as shown (Figure 1).  
NOTE: If there is not enough room to drill holes from the side then drill holes from inside the wall sleeve.

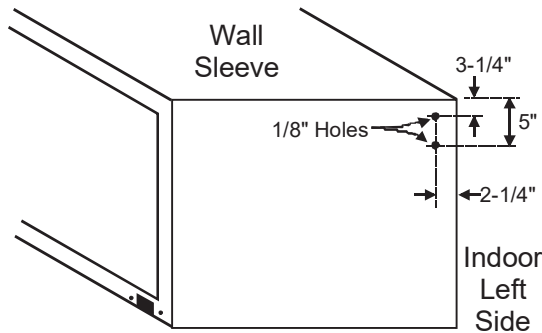
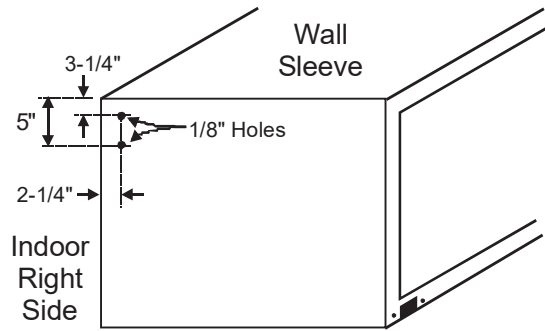


Figure 1

2. Remove the hydronic kit from its packaging. Recycle the cardboard packaging material.
3. Mount the two support brackets to the bottom of the hydronic top (Figure 2) with four (4) 3/8-inch #8 supplied screws.

On HVK03K Hydronic Steam Kits, do not use 1/4 inch head, 3/8 inch long, #8 screws to attach the left support bracket to the hydronic top. Use the provided two 5/16 inch painted head, 1/4 inch long, #8 screws in place of these longer screws. (Figure 3)

NOTE: Failure to use the 1/4 inch long screws instead of the 3/8 inch long screws may result in leaks of the hydronic steam coil.

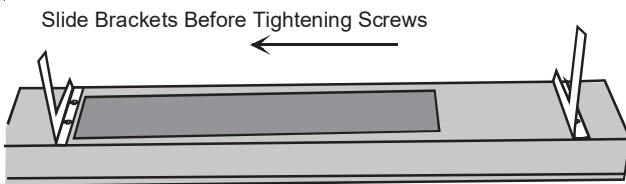


Figure 2

Move the brackets to the left so that screws are located in right side of slot and tighten screws (Figure 3).

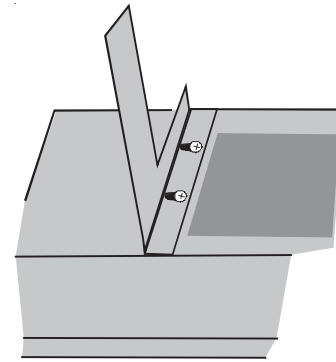


Figure 3

4. Mount the transition to the chassis with two 1/2-inch #8 supplied screws (Figure 4).

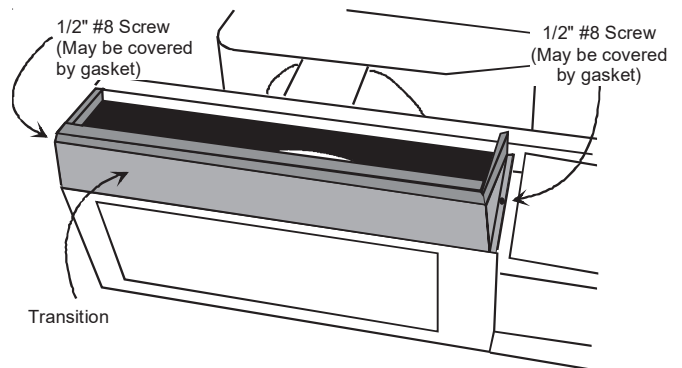


Figure 4

5. Position the hydronic top with support brackets to the wall sleeve and fasten the support brackets to the drilled holes in the wall sleeve with four 1/2-inch #10 supplied screws. (Figure 5)

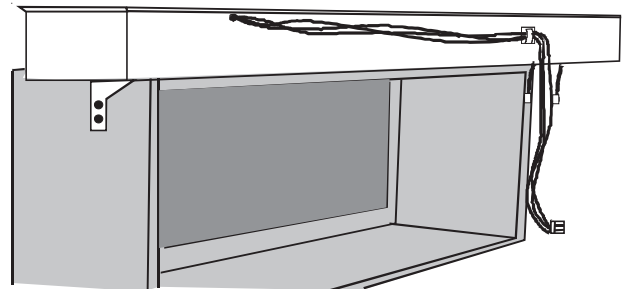


Figure 5

6. Place the chassis back into the wall sleeve and secure chassis to wall sleeve.
7. Measure the actual distance "D" (Figure 6) from the bottom of the chassis basepan to the finished floor to determine how far to extend the skirt below the metal front. If the distance is less than two inches, trim the skirt per Figure 7 so that it will not interfere with the gasket or block the inlet air on the front. In Figure 7, "Y" dimension equals 2" minus actual "D" dimension.

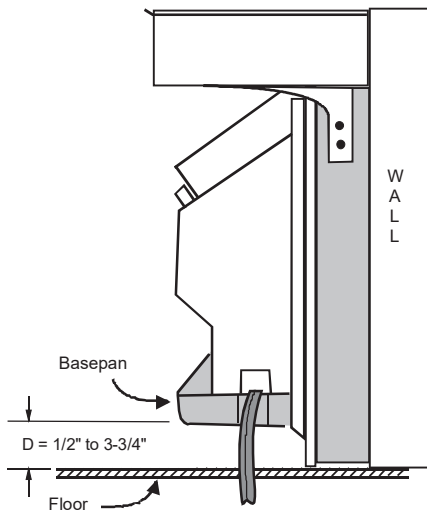


Figure 6

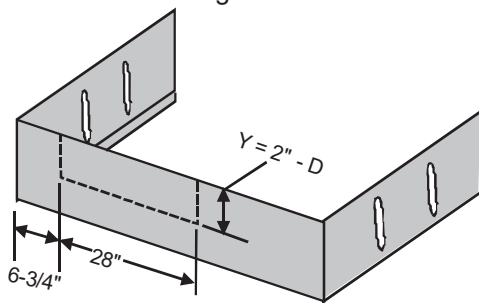


Figure 7

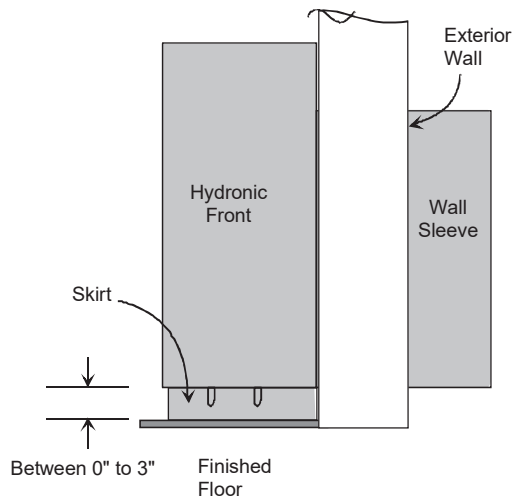


Figure 8

8. Mount the skirt to the metal front with the four remaining 3/8" #8 supplied screws (Figure 9).  
NOTE: Skirt is attached to front of top piece during shipping.

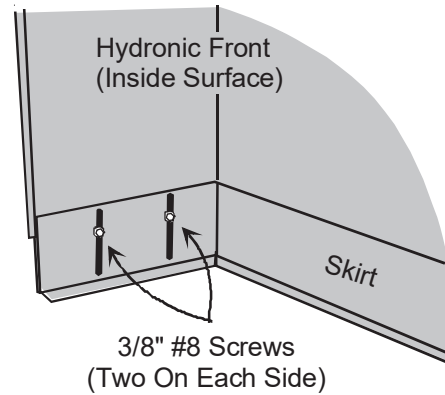


Figure 9

9. Remove the six screws from the top of the hydronic top. Lift the hydronic top straight up and set aside along with the six screws (Figure 10).

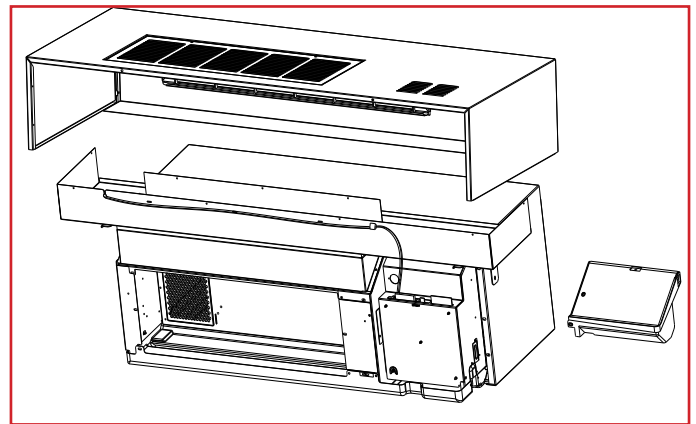


Figure 10

10. Position the wires from the freeze thermostat found on the left side of the hydronic top so the wires slide through the slot opening in the hydronic top. Place all wires into the supplied snap bushing (Figure 11).

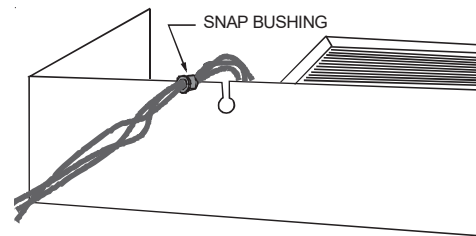


Figure 11

11. Snap the grommet into the hydronic top and pull the wires forward to take out the slack in the wires (Figure 12).

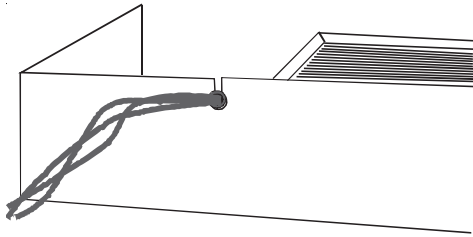


Figure 12

12. Route the freeze thermostat wires through the U-clip on the hydronic top assembly and down in front of the control panel. Snap the plastic male pin connector into the plastic female pin connector located on the outside front surface of the control panel (Figure 13).

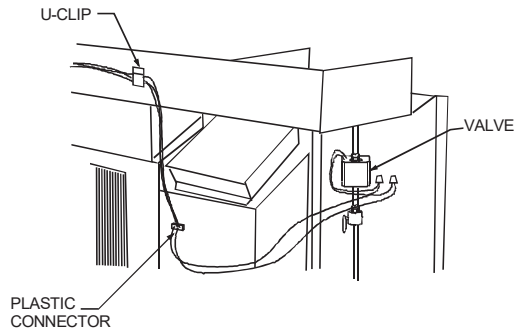
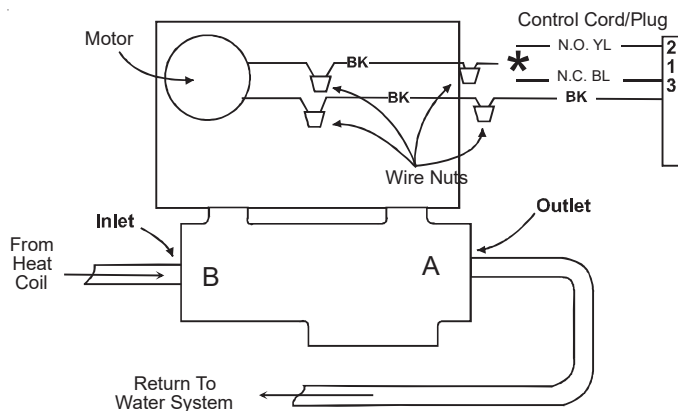


Figure 13

13. If the black valve motor leads are not accessible from the valve housing, remove the valve cover. Connect the supplied valve wire harness leads to the two valve motor leads (not the end switch leads) using the supplied wire nuts (Figure 14). The fiber washer and strain relief supplied with the valve harness must be located in the valve motor enclosure after assembly. Replace the valve cover.



- \* Connect YL for Normally Open Valves.  
Connect BL for Normally Closed Valves

Figure 14

14. Using the two remaining wire nuts, connect the wires from the chassis wire harness to valve harness. Connect one of the BK wires from the valve to BK wire from the chassis.  
For normally open valves, connect the YL chassis harness wire to the second BK wire from the valve.  
For normally closed valves, connect the BL chassis harness wire to the second BK wire from the valve.
15. Cut either the YL or BL wire that is not being used at the plastic male connector on the control panel.

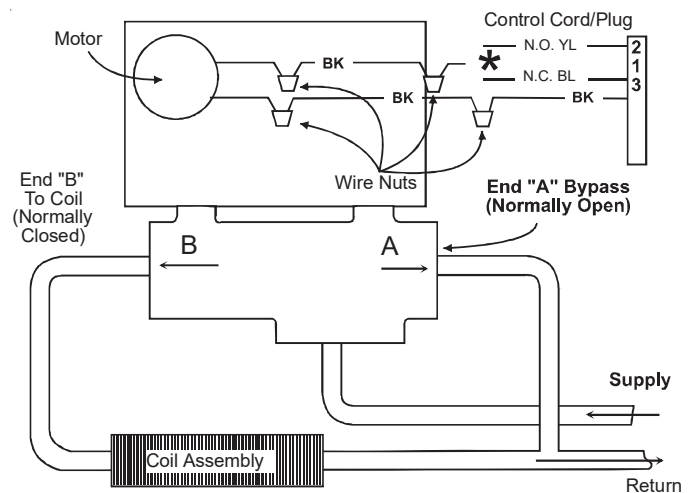
### TWO-WAY VALVE INSTALLATION

When installing two-way valves, the flow direction is from end "B" as shown in Figure 15.

Prior to soldering the normally closed two-way valve, open the ports by slowly moving the manual operating lever to the retaining notch until lever is secured by valve spring. The lever will reset to the automatic position the first time the valve is energized.

### THREE-WAY VALVE INSTALLATION

When installing three-way diverting valves, end "B" is the supply to coil and end "A" is the bypass end. The inlet port is unmarked. Port markings "A" and "B" are located on the bottom of the valve body (Figure 15).



- \* Connect YL for Normally Open Valves.  
Connect BL for Normally Closed Valves

Figure 15

**NOTE:** For Erie Model VT32\* (poptop), the three-way valve is only configured as N.C. to "B" port. For N.O. configuration to the coil, simply turn the valve around.

Prior to soldering the normally closed 3-way valve, open both ports by slowly moving manual operating lever to retaining notch until lever is secured by valve spring. Flow valve and tubing is to be installed so that it does not restrict removal of the chassis from the sleeve for service.

### **SOLDERING THE VALVES**

Solder the flow valve and other necessary components in line with the plumbing rising from the floor or wall. Do not place the components inside the hydronic top assembly (Figure 16).

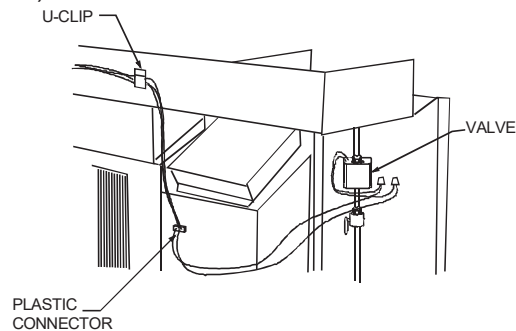


Figure 16

### **STEAM AND WATER PLUMBING**

1. The plumbing can enter from the left and/or right side of the unit through the slots and holes that are supplied in the hydronic top assembly. (See Steam and Water Plumbing Dimensions figures.)
2. Hydronic water kits (HWK03K) may have water entering either the left or right side of the coil. Hydronic steam kits (HVK03K) can only have entering steam on the right side of the coil. (See Steam and Water Plumbing Dimensions figures.)
3. Make sure all piping is plumbed to the coil and system has been bled of air. Using the existing six screws and hydronic top from Step 13, place the top cover over the coil deck assembly. Make sure the back flange of the top cover fits inside the small vertical flange in the back of the coil assembly. (Figure 17.)

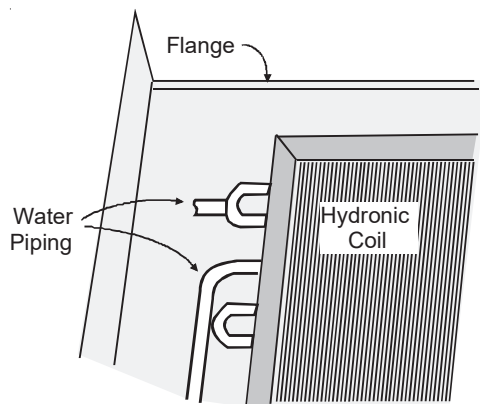


Figure 17

**NOTE:** A manual bleed valve is supplied with both the Hydronic Water and Hydronic Steam Kits (HWK03K and HVK03K). It is recommended that an automatic bleed valve for Hydronic Steam Kits (HVK03K) be installed. This will eliminate frequent access to the manual bleed valve for purging air from the steam system.

### **FINAL KIT INSTALLATION STEPS**

1. Place the hydronic front on the top assembly so the flanges of the front fit tightly into the flanges of the top assembly.
2. Ensure the inlet air filter is located inside of the inlet grille and held in position with the four brackets (one on each side and two on the bottom). The inlet grille can be hinged open by unlatching the two top levers on the grille.
3. To service the unit, remove the front. Remove the four sheet metal screws that secure the unit to the wall sleeve from each of the side seal mounting brackets. If a subbase is used, remove the right side cover panel from the subbase and disconnect the power cord. The chassis may be removed for service.

**NOTE:** To prevent water hammering, the use of approved motorized valves and good piping practices is strongly recommended. Opening and closing motorized valves very slowly will help prevent water hammering.

## CONFIGURATION SETTINGS

| Configuration Code | Description                 | Option Code        | Description                     |
|--------------------|-----------------------------|--------------------|---------------------------------|
| C1                 | Interface                   | 0*                 | Chassis Membrane*               |
|                    |                             | rE                 | Wireless Remote                 |
|                    |                             | L5                 | Wired Thermostat                |
| C2                 | Fan Operation               | bP                 | Button present                  |
|                    |                             | bA*                | 7-Button, reverts to Cyclic     |
|                    |                             | A                  | Always run fan (even in Off)    |
|                    |                             | bC                 | 7-Button, reverts to Continuous |
| C3                 | Reverse Cycle Operation     | C                  | Cooler Only                     |
|                    |                             | H*                 | Heat Pump*                      |
|                    |                             | 0                  | Service No Operation "Eo"       |
| C4                 | Room I.D. Digit 1 & 2       | 00* - 99           | 00* - 99                        |
| C5                 | Room I.D. Digit 3 & 4       | 00* - 99           | 00* - 99                        |
| C6                 | Wired or Wireless Occupancy | 0*                 | Off*                            |
|                    |                             | 1                  | On                              |
|                    |                             | 18                 | 18 Hour Automatic Entry         |
| C8                 | Temp. Limiting Cool         | 60* - 72           | 60* - 72                        |
| C9                 | Temp. Limiting Heat         | 68 - 90, 80*       | 68 - 90, 80*                    |
| Cd                 | English / Metric Temp       | F*                 | Fahrenheit Scale*               |
|                    |                             | C                  | Celsius Scale                   |
| d6                 | Sensorless Un-Occ. Time     | 1 - 32, 18*        | 1 - 32, 18*                     |
| d7                 | 1st Un-Occ. Set Back Temp.  | 1 - 16, 2*         | 1 - 16, 2*                      |
| d8                 | 1st Un-Occ. Set Back Time   | .1, .5*, 1 - 24    | .1, .5, 1 - 24, .5*             |
| d9                 | 2nd Un-Occ. Set Back Temp.  | 1 - 16, 3*         | 1 - 16, 3*                      |
| dA                 | 2nd Un-Occ. Set Back Time   | .1, .5, 1* - 24    | (d8) - 24, 1*                   |
| db                 | 3rd Un-Occ. Set Back Temp.  | 1 - 16, 6*         | 1 - 16, 6*                      |
| dC                 | 3rd Un-Occ. Set Back Time   | .1, .5, 1 - 24, 3* | (dA) - 24, 3*                   |
| dF                 | Jace Group Code             | 00* - 99           | 00* - 99                        |
| r4                 | Room Prefix                 | 00* - 99           | 00* - 99                        |
| r5                 | Room Suffix                 | 00* - 99           | 00* - 99                        |

\*Indicates factory default

See manufacturer for additional configuration options.

## STEAM PLUMBING DIMENSIONS

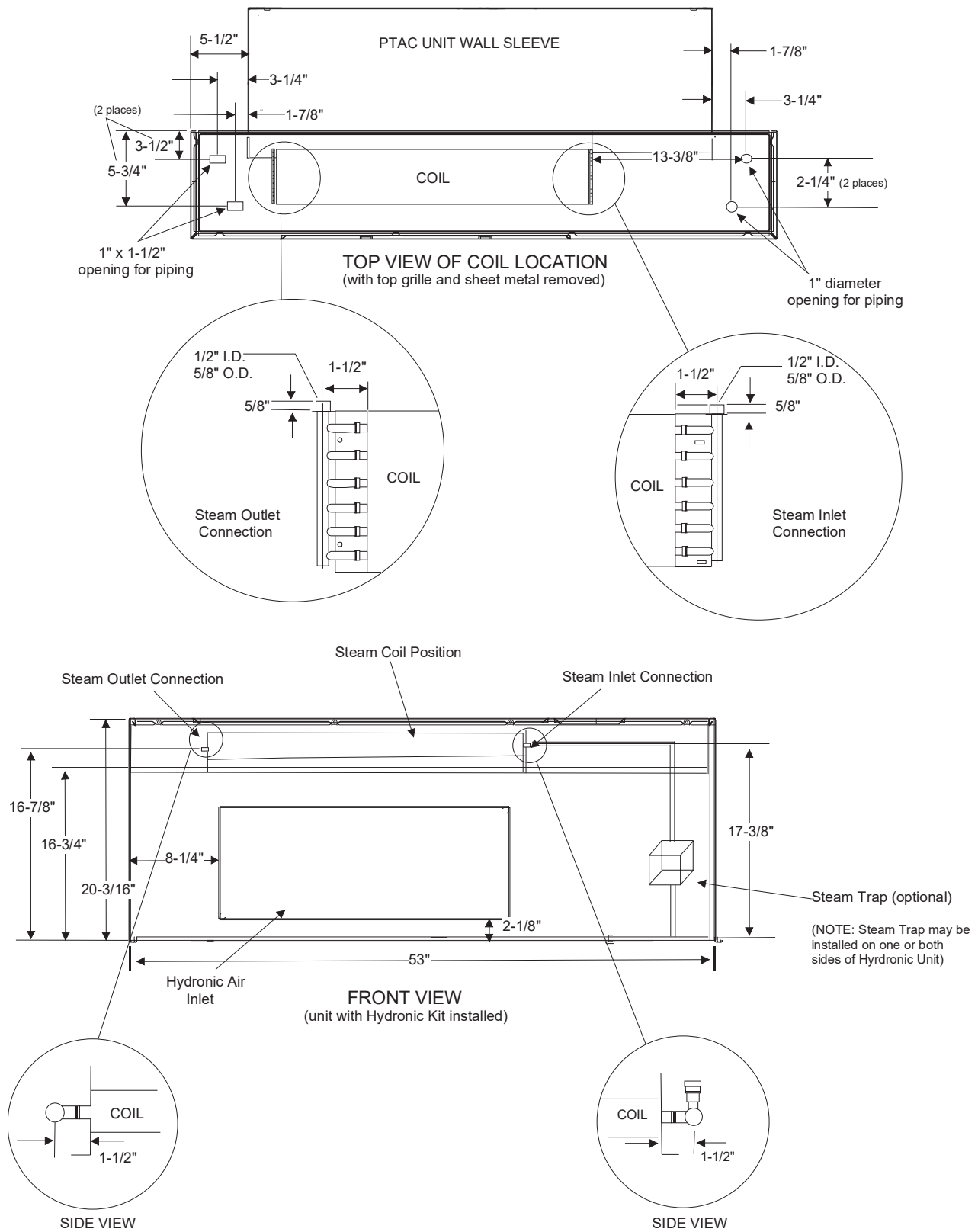


Figure 18



HOT WATER PLUMBING DIMENSIONS

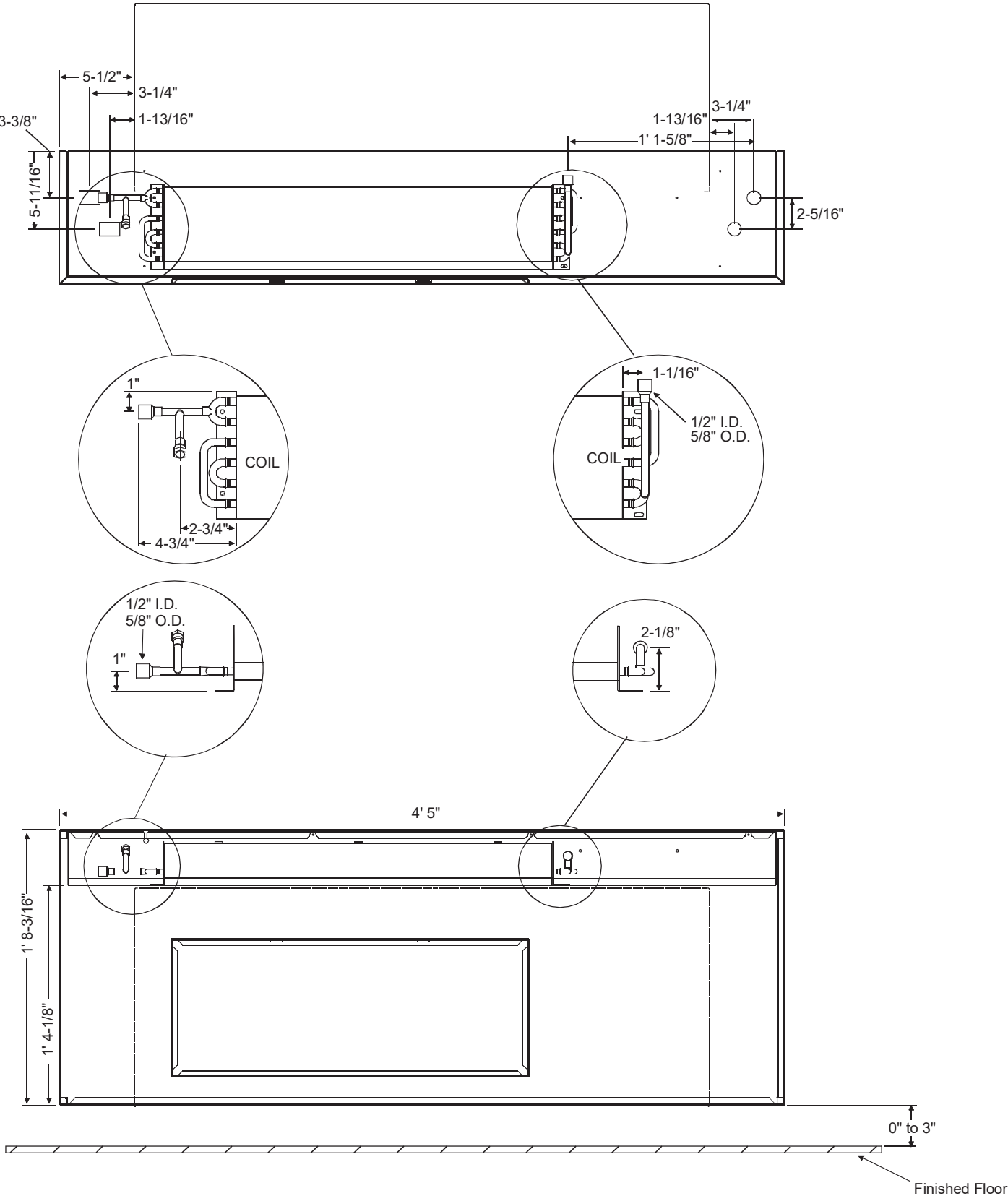


Figure 19

# PTAC HYDRONIC KIT SPECIFICATIONS

## HEATING CAPACITY

| Hydronic Heat Kit Application Data  |                            |                |                 |       |             |       |                                |       |             |       |
|-------------------------------------|----------------------------|----------------|-----------------|-------|-------------|-------|--------------------------------|-------|-------------|-------|
| Heating Capacity (Btuh) - Hot Water |                            |                |                 |       |             |       |                                |       |             |       |
| Gal.<br>per<br>Min.                 | Pressure<br>Drop<br>(psig) |                | 7000 BTUH Units |       |             |       | 9000, 12000 & 15000 BTUH Units |       |             |       |
|                                     |                            |                | 200° F. EWT     |       | 180° F. EWT |       | 200° F. EWT                    |       | 180° F. EWT |       |
|                                     | Coil                       | 2-Way<br>Valve | Fan Speed       |       | Fan Speed   |       | Fan Speed                      |       | Fan Speed   |       |
|                                     |                            |                | Hi              | Lo    | Hi          | Lo    | Hi                             | Lo    | Hi          | Lo    |
| 1.00                                | 0.93                       | 0.16           | 18200           | 16500 | 14900       | 13600 | 20600                          | 19000 | 16900       | 15600 |
| 1.13                                | 1.03                       | 0.20           | 18600           | 16900 | 15200       | 13900 | 21100                          | 19500 | 17300       | 16000 |
| 1.25                                | 1.14                       | 0.25           | 19000           | 17300 | 15500       | 14200 | 21500                          | 19900 | 17600       | 16300 |
| 1.38                                | 1.26                       | 0.30           | 19400           | 17600 | 15900       | 11500 | 21900                          | 20300 | 18000       | 16600 |
| 1.50                                | 1.40                       | 0.36           | 19700           | 18000 | 16200       | 14700 | 22300                          | 20700 | 18300       | 16900 |
| 1.63                                | 1.55                       | 0.43           | 20000           | 18200 | 16400       | 15000 | 22700                          | 20900 | 18600       | 17200 |
| 1.75                                | 1.71                       | 0.49           | 20300           | 18400 | 16600       | 15100 | 22900                          | 21200 | 18800       | 17400 |
| 1.88                                | 1.89                       | 0.57           | 20500           | 18600 | 16800       | 15300 | 23200                          | 21500 | 19000       | 17600 |
| 2.00                                | 2.10                       | 0.64           | 20600           | 18800 | 16900       | 15400 | 23400                          | 21600 | 19200       | 17700 |
| 2.13                                | 2.32                       | 0.73           | 20800           | 18900 | 17100       | 15600 | 23600                          | 21800 | 19400       | 17900 |
| 2.25                                | 2.57                       | 0.81           | ** 21000        | 19100 | 17200       | 15700 | 23800                          | 22000 | 19500       | 18000 |
| 2.38                                | 2.84                       | 0.91           | 21100           | 19200 | 17300       | 15800 | 23900                          | 22100 | 19600       | 18100 |
| 2.50                                | 3.14                       | 1.00           | 21200           | 19200 | 17300       | 15800 | 24000                          | 22200 | 19700       | 18200 |
| 2.63                                | 3.48                       | 1.11           | 21200           | 19300 | 17300       | 15800 | ** 24000                       | 22200 | 19700       | 18200 |
| 2.75                                | 3.85                       | 1.21           | 21200           | 19300 | 17400       | 15900 | 24000                          | 22200 | 19700       | 18200 |

\*\* Based on AHRI Rating Conditions of 70°F Entering Air Temp., 200°F Entering Water Temp and 180°F Leaving Water Temp. Max. Water Temp. 200°F. Max. Water Pressure - 200 Psig.

Numbers above are based on systems without antifreeze.

| Hydronic Heat Kit Application Data |                 |        |                          |        |
|------------------------------------|-----------------|--------|--------------------------|--------|
| Heating Capacity (Btuh) - Steam    |                 |        |                          |        |
| Steam<br>(psig)                    | 7000 BTUH Units |        | 9000 to 15000 BTUH Units |        |
|                                    | Fan Speed       |        | Fan Speed                |        |
|                                    | Hi              | Low    | Hi                       | Low    |
| 2                                  | ** 22,600       | 20,500 | ** 25,400                | 23,100 |
| 3                                  | 23,000          | 20,900 | 25,900                   | 23,500 |
| 4                                  | 23,200          | 21,100 | 26,100                   | 23,800 |

Maximum steam pressure 5 psig

\*\*Based on AHRI rating conditions of 70° F entering air temp. and 2 psig steam pressure

## WATER VALVE PRESSURE DROP

| 2-Way Valve<br>ERIE Models: 654C*<br>VT/S22* |                      |
|--|----------------------|
| Water GPM                                    | Pressure Drop (psig) |
| 1.00   | 0.16                 |
| 1.13   | 0.20                 |
| 1.25   | 0.25                 |
| 1.38   | 0.30                 |
| 1.50   | 0.36                 |
| 1.63   | 0.43                 |
| 1.75   | 0.49                 |
| 1.88   | 0.57                 |
| 2.00   | 0.64                 |
| 2.13   | 0.73                 |
| 2.25   | 0.81                 |
| 2.38   | 0.91                 |
| 2.50   | 1.00                 |
| 2.63   | 1.11                 |
| 2.75   | 1.21                 |

CV=2.5

| 3-Way Valve Bypass<br>ERIE Models: 654C* |                      |
|--|----------------------|
| Water GPM                                | Pressure Drop (psig) |
| 1.00                                     | 0.11                 |
| 1.13                                     | 0.14                 |
| 1.25                                     | 0.17                 |
| 1.38                                     | 0.21                 |
| 1.50                                     | 0.25                 |
| 1.63                                     | 0.30                 |
| 1.75                                     | 0.34                 |
| 1.88                                     | 0.39                 |
| 2.00                                     | 0.44                 |
| 2.13                                     | 0.50                 |
| 2.25                                     | 0.56                 |
| 2.38                                     | 0.63                 |
| 2.50                                     | 0.69                 |
| 2.63                                     | 0.77                 |
| 2.75                                     | 0.84                 |

CV=3.0

| 3-Way Valve Service<br>ERIE Models: 654C* |                      |
|---|----------------------|
| Water GPM                                 | Pressure Drop (psig) |
| 1.00                                      | 0.04                 |
| 1.13                                      | 0.05                 |
| 1.25                                      | 0.06                 |
| 1.38                                      | 0.08                 |
| 1.50                                      | 0.09                 |
| 1.63                                      | 0.11                 |
| 1.75                                      | 0.12                 |
| 1.88                                      | 0.14                 |
| 2.00                                      | 0.16                 |
| 2.13                                      | 0.18                 |
| 2.25                                      | 0.20                 |
| 2.38                                      | 0.23                 |
| 2.50                                      | 0.25                 |
| 2.63                                      | 0.28                 |
| 2.75                                      | 0.30                 |

CV=5.0

| 3-Way Valve Bypass<br>and Service<br>ERIE Models: VT32* |                      |
|---|----------------------|
| Water GPM   | Pressure Drop (psig) |
| 1.00  | 0.06                 |
| 1.13  | 0.08                 |
| 1.25  | 0.10                 |
| 1.38  | 0.12                 |
| 1.50  | 0.14                 |
| 1.63  | 0.17                 |
| 1.75  | 0.19                 |
| 1.88  | 0.22                 |
| 2.00  | 0.25                 |
| 2.13  | 0.28                 |
| 2.25  | 0.32                 |
| 2.38  | 0.35                 |
| 2.50  | 0.39                 |
| 2.63  | 0.43                 |
| 2.75  | 0.47                 |

CV=4.0

$$Q = CV \sqrt{Pd}$$

Q = Flow in Gallons/Min

CV = Flow Coefficient of Valve

Pd = Pressure Drop (psig)

## DIMENSIONS OF COMPLETE INSTALLATION

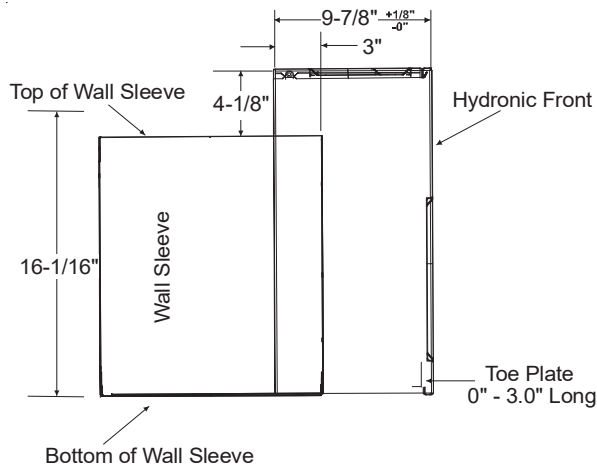


Figure 20  
Side View

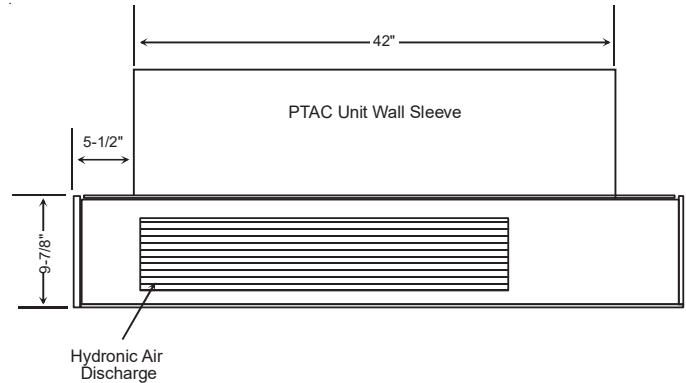


Figure 21  
Side View

#### CUSTOMER FEEDBACK

We are very interested in all product comments.

Please fill out the feedback form on one of the following links:

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