

PENSOTTI

BOILERS | PANEL RADIATORS

Quick Installation Guide

Refer to the installation manual for detailed instructions.

Pensotti Panel Radiator Package Contents:

- (1) Radiator
- Trim Package
 - ◆ Bag A - (1) Thermostatic Insert
 - ◆ Bag B - (1) Air Vent
 - ◆ Bag C - Wall Mounting Bracket Set
 - ◆ Bag D - (2) Reducers
 - ◆ Bag E - (2) 1/2" Pex Fittings
 - ◆ Bag F - (2) 1/2" Copper Fittings
 - ◆ Bag G - (2) White Escutcheons
 - ◆ (2) White Radsnap Pipe Covers

NOTE: For information or questions outside the scope of this manual contact a qualified heating professional for assistance.



General Information:

- Installation in Closed Loop—Hot Water Systems Only.
- Max Operating Temperature: 250°F
- NOT for use in Steam Systems.
- The radiator may be mounted so the supply/return connections can be on the bottom right or bottom left.
- All supplied fittings have an o-ring gasket seal. They do NOT require additional thread sealant or tape.

CAUTION: Only the supplied (or other Pensotti approved) fittings should be used to connect the radiator. Using any other fittings / pipe connections could result in water leaking and/or home damage. Pensotti is NOT liable for damages caused by unapproved fittings and/or improper installation of supplied fittings.

1. Unwrap the radiator

Note: Inspect the radiator for possible shipping damage



Make note of the installation location for the thermostatic insert and air vent



Carefully turn the radiator upside down so the top grill is on the floor

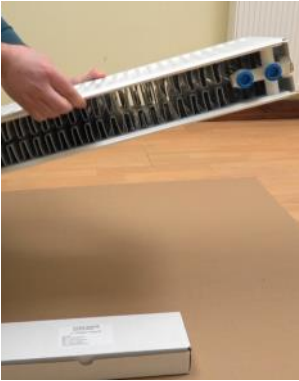


Cut the plastic wrap across the bottom side of the radiator. This will minimize potential damage.



Remove the plastic wrap and cardboard end caps from the radiator. Turn the radiator right side up.

2. Install the Thermostatic Valve - Bag A



The Thermostatic valve is installed in the top corner of the radiator directly above the supply / return.



Once this location is verified, the Thermostatic Valve can be inserted.



Hand tighten the valve turning clockwise until tight.



Snug the valve using a 19mm (3/4") wrench. Do NOT overtighten.

3. Install the Manual Air Vent - Bag B



Turn the radiator around.



The Manual Air Vent will be installed in the top corner opposite the Thermostatic Valve.



Hand tighten the air vent turning clockwise until tight.



Snug the air vent using a 22mm (7/8") wrench. Do NOT overtighten.

4. Install Reducers - Bag D and tighten end plugs



Flip the radiator over. Remove the protective blue inserts. Insert the (2) reducers into the bottom supply / return tapings.



Hand tighten the reducers turning clockwise until tight.



Snug the reducers using a 12mm (15/32") allen wrench. Do NOT overtighten.



Snug the chrome plugs in the lower side tapings on each end of the radiator using a 22mm (7/8") wrench. Do NOT overtighten.

5. Hang Mounting Brackets - Bag C

Note: For the most secure installation BOTH radiator brackets should be mounted onto wall studs. If not possible, at least 1 bracket MUST be mounted onto a wall stud and the second bracket must be mounted in drywall using “toggle” style anchors (not provided). For any other wall material, mounting hardware suitable to support FILLED radiator weight must be used (selected at the discretion of the installer).

Installation of 1 bracket is shown. The steps are the same for both brackets.

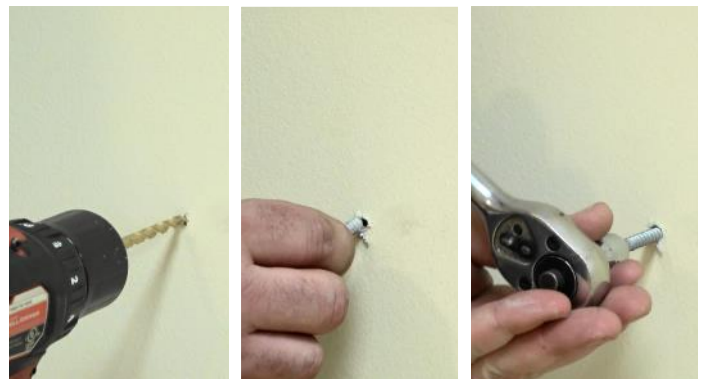
Mounting brackets should be installed so they will support the weight of the filled radiator evenly. Make sure both brackets are level to each other when installation is complete.



Unpack the radiator brackets. For wood stud mounting, use the lag bolts provided (or equivalent).



Mark the location of the TOP slot on the mounting brackets. Note: The bottom of the installed radiator should be mounted a minimum of 4" above the floor.



Drill an appropriate pilot hole for the mounting hardware selected. Insert the upper mounting bolt and tighten with a wrench till bolt head is about 3/4" from wall.



Hang the mounting brackets from the top slot.



Make sure the brackets are plumb and mark the lower mounting hole.

5. Hang Mounting Brackets Cont.



Remove the mounting bracket and drill an appropriate pilot hole for the lower mounting bracket bolt.



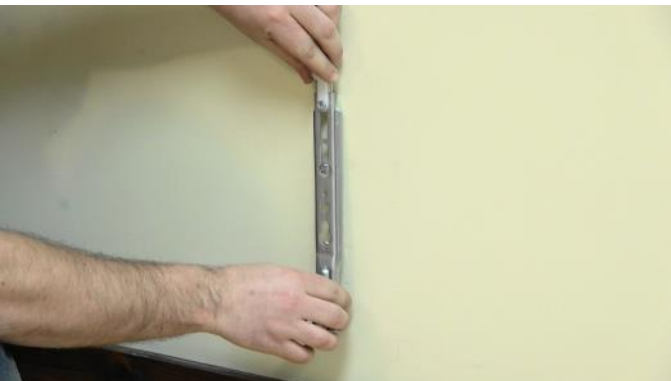
Insert the lower mounting bolt and tighten with a wrench till bolt head is about 3/4" from wall.



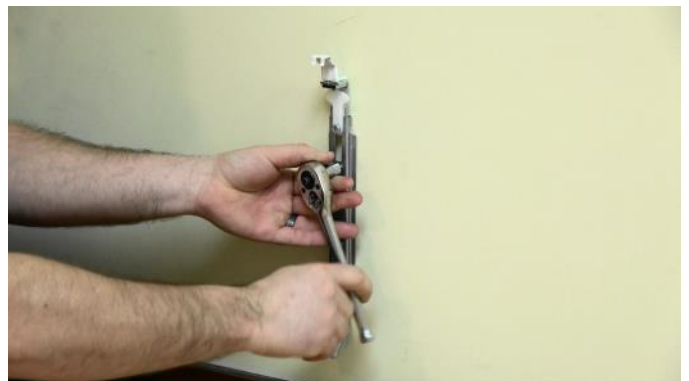
Grip the bracket in one hand. With the other hand grip the white plastic tab at the top of the bracket.



Pull the white tab forward and slide the top clamp upward to raise the clamp to its highest point.



Hang the bracket on the two mounting bolts



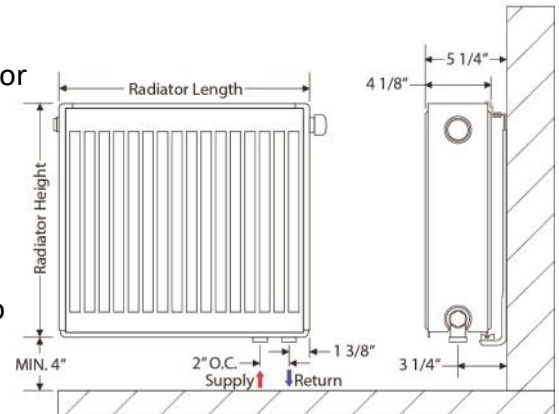
Tighten the bolts with a wrench until bracket is secure.

6. Mount The Radiator

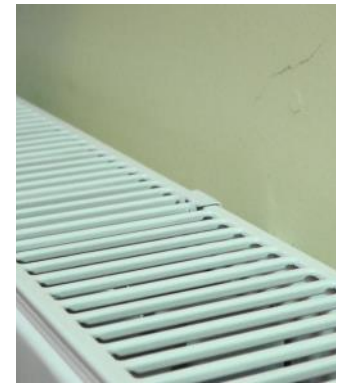
Note: These radiators can be mounted so the supply / return connections are located on the bottom right-hand side of the radiator (as shown in the rough-in dimension illustration) OR on the bottom left-hand side of the radiator. In either mounting configuration **the SUPPLY connection is ALWAYS located closest to the MIDDLE of the radiator** and **the RETURN connection is ALWAYS located closest to the SIDE of the radiator**.

If supply / return piping will be through the floor, It is best to drill those holes prior to mounting the radiator. Use the rough-in dimension illustration for proper location. Once the supply / return holes are made in the correct location, proceed to the steps below.

Radiator Rough-In Dimensions



Set the bottom rear of the radiator in the groove at the bottom or each bracket and tilt the radiator till vertical



Slide the top clamp down tightly onto the radiator. The fingers of the clamp should fit between grills.

7. Install Thermostatic Knob

Note: This knob provides manual flow control to the radiator. Tightening the knob will restrict flow. If it is tightened completely all flow to the radiator will be stopped. Once the radiator is filled this knob can be used to adjust the flow to the desired setting.



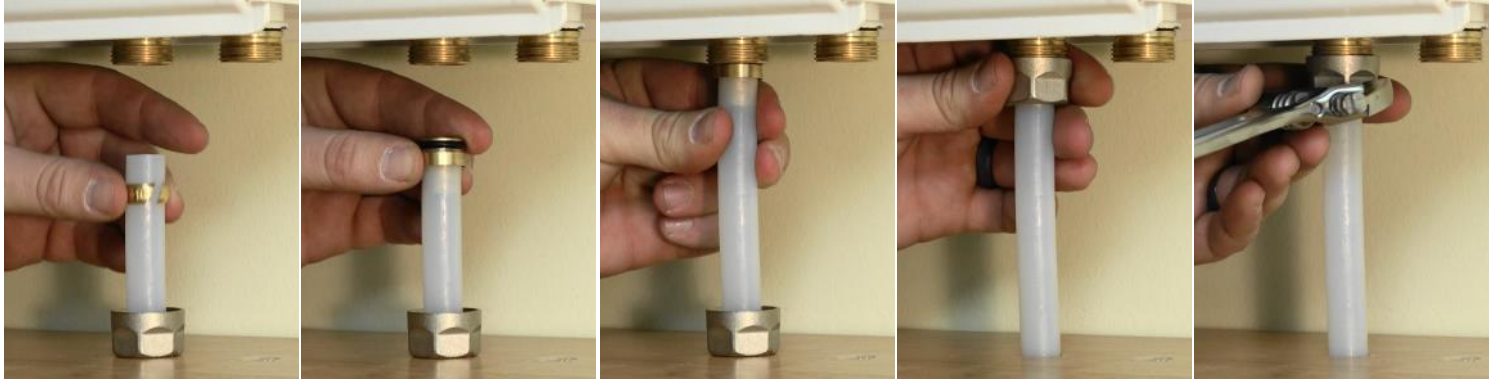
Align the Thermostatic Valve Knob with the valve. Do NOT allow the knob to cross-thread.



Turn the knob onto the Thermostatic Valve by turning clockwise. Initially only turn the knob 1/2 to 1 turn.

8. 1/2" Pex Pipe Connections - Bag E

Note: These instructions show how to install supply / return piping from the floor. For alternate installation options, see the full installation manual. Bring rough piping up about 1 1/2" from the reducer fitting on the bottom of the radiator.



Slide the large nickel compression nut over the pipe with the open thread end facing up. Slide the split compression ring over the pipe.

Insert the barbed compression fitting into the pipe until the shoulder rests on the end of the pipe.

Slide the pipe up until the compression fitting completely engages with the reducer.

Slide the compression nut up the pipe and thread it onto the reducer by turning it clockwise.

Tighten the compression nut with an adjustable wrench until snug. After radiator is filled and heated, verify ALL fittings are tight and no water leaks.

9. 1/2" Copper Pipe Connections - Bag F

Note: These instructions show how to install supply / return piping from the floor. For alternate installation options, see the full installation manual. Bring rough piping up about 1 1/2" from the reducer fitting on the bottom of the radiator.



Slide the large nickel compression nut over the pipe with the open thread end facing up.

Slide the copper split compression ring over the pipe with the rubber portion facing up. Until it is fully engaged with the copper pipe.

Slide the pipe up until the rubber compression fitting completely engages with the reducer.

Slide the compression nut up the pipe and thread it onto the reducer by turning it clockwise.

Tighten the compression nut with an adjustable wrench until snug. After the radiator is filled and heated, verify ALL fittings are tight and no water leaks.

10. White Escutcheon Installation - Bag G

Note: These instructions show the supply pipe with escutcheon and rad snap already installed for reference. The same process is used for both pipes.



Slide the escutcheon plate around the pipe with the flat side facing up and the edge ridge facing down.



Slide the pipe slot cover into the channel in the escutcheon plate until it clicks into place.



If desired, the escutcheon can be rotated so the slot cover faces toward the wall.

11. Installation of White Radsnap Pipe Covers

Note: Measure and cut the radsnap pipe covers to the correct length to fit between the compression nut and the escutcheon plate. This can be done carefully with scissors or with a sharp razor.



Spread the seam of the radsnap and slide the opening over the pipe.



Once over the pipe, release the ends and the radsnap will automatically close to cover the pipe.



Make Radsnap seam faces toward the wall.

12. Vent Air From The Radiator

Note: Once the radiator is piped and the supply / return piping is connected to the heating system, the radiator can be filled with water.

Helpful Hint: When possible, have two people present to fill the radiator. One to open necessary system valves and one to verify there are NO leaks at the radiator.

CAUTION: When radiators are connected to an active heating system, water vented through the air vent may be EXTREMELY HOT. Caution should be taken to avoid direct contact with the vented water.

Open any valves which may be isolating the radiator and ensure the thermostatic valve knob is open (loosened until it almost comes off)



Locate the small vent hole in the side of the white plastic portion of the air vent.



Rotate the white portion of the air vent until the small vent hole points down.



Hold a cup or other suitable container under the vent. Insert a flat screwdriver into the chrome slotted nut on the vent.

Rotate counter-clockwise 1 to 2 turns until air can be heard escaping the radiator.



Once all air escapes and a steady stream of water flows from the vent, rotate clockwise until the flow of water stops and the vent is tight.

- Once the radiator is filled, verify ALL fittings (thermostatic valve, air vent, side plugs, pipe connections, etc.) are tight and no water is leaking.
 - Allow the radiator to heat and recheck ALL fittings again.
 - Installation is complete.