

MANUAL – INSTALLATION + SERVICE

Radiant Panels

RPM / RPL Series

Revision #: 01 – Issue Date: 03/25/14

© 2014 Price Industries Limited. All rights reserved.



RADIANT PANELS

INSTALLATION & MOUNTING INSTRUCTIONS

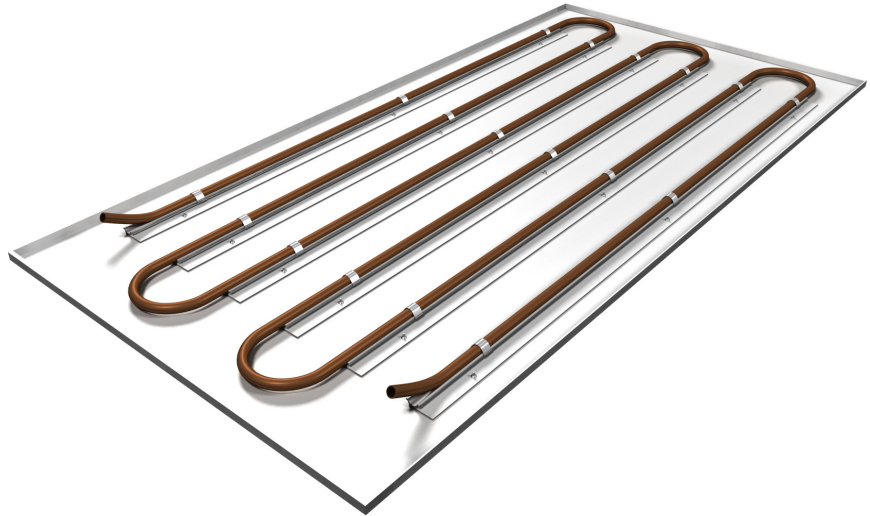
These installation instructions apply to Price radiant panel models RPM and RPL.

To avoid dirt smudging or discoloration, the use of clean white cotton gloves when handling units is recommended.

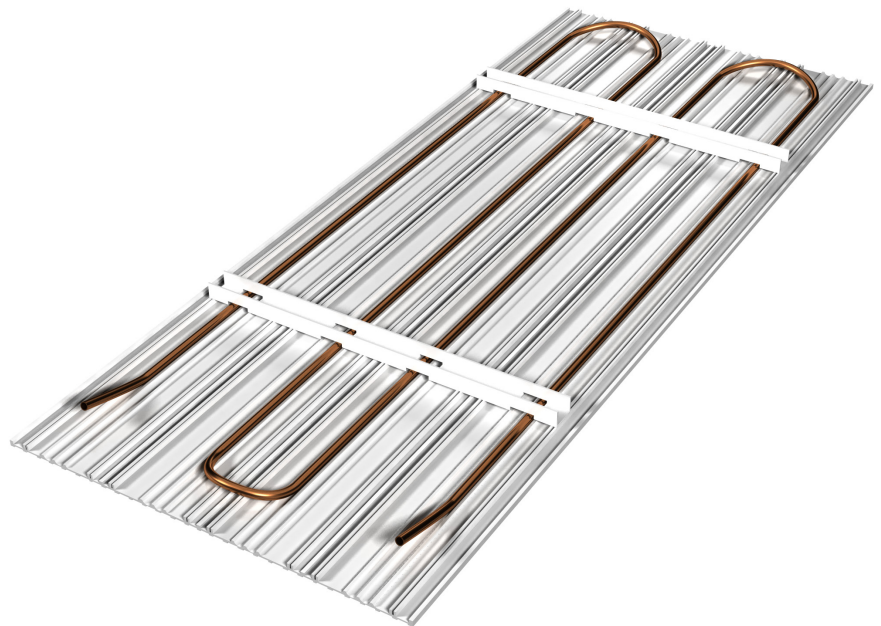
Determine which Panels are to be installed

- A. **RPM:** Modular radiant panels have a formed aluminum sheet face with the heatsink and copper attached on the backside.
- B. **RPL:** Linear radiant panels use extruded aluminum sections with the copper directly attached in channels on the backside.

RPM ▼



RPL ▼

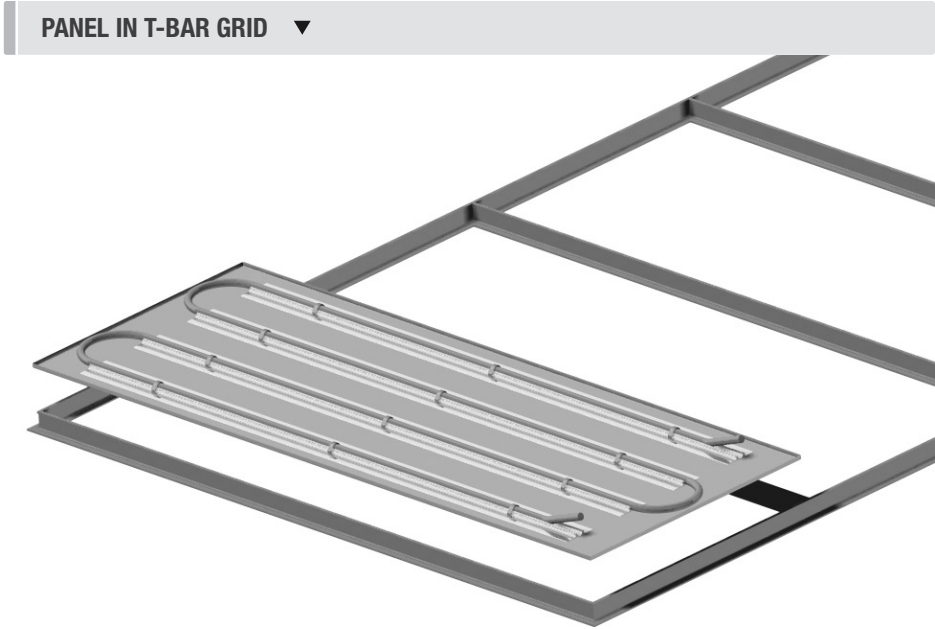


RADIANT PANELS

INSTALLATION & MOUNTING INSTRUCTIONS

Installing RPM

- A. Place the panel into the desired T-bar grid and ensure panel is supported on all 4 sides and the exposed copper pipes are facing upwards to the ceiling plenum. Panels are undersized $\frac{3}{8}$ " per side from nominal dimensions for assured fit.
- B. The T-bar ceiling is typically supported with hanger wire every four (4) feet and generally capable of supporting the weight of the panels. This should however be verified for individual applications. The RPM panels can have additional hanger wire supports installed at the 4 pre-drilled $\frac{3}{16}$ " holes on the long side of the panels.
- C. Connect water lines to the inlet and outlet of the panel. Panels use $\frac{1}{2}$ " nominal copper tube and sweat (bare) ends. Optionally, $\frac{1}{2}$ " NPT female fittings have been provided by the factory and shipped loose which are to be soldered in place on the ends of the tubing.
- D. Place the pre-cut insulation that has been shipped separately on the backside of the panel with the foil backing facing upwards toward the ceiling plenum.



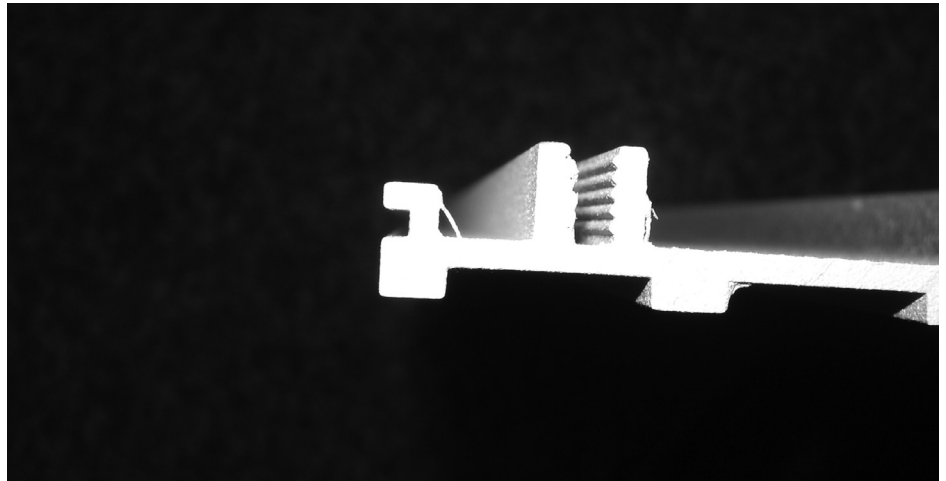
RADIANT PANELS

INSTALLATION & MOUNTING INSTRUCTIONS

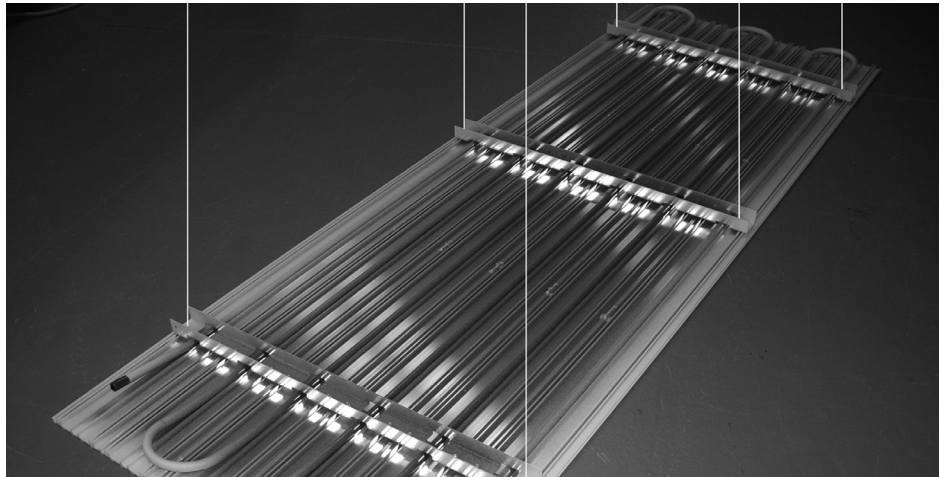
Installing RPL

- A. **Freestanding:** Linear panels are designed to be freestanding and do not require a T-bar grid for support. Panels should be located at the desired location and height with the exposed copper pipes facing upwards towards the ceiling plenum. Panels should be installed with the female edge of the extrusion adjacent to the perimeter wall.
- B. **T-Bar Installation:** For some applications, T-bar grid is chosen for mounting. It should be noted that the RPL panels are not undersized like the modular panels, so the length ordered is the actual length that is provided. The width is oversized by 0.100" to allow for the tongue and groove on the extrusion. T-bar module size should be oversized to accommodate this.
- C. **Wire Support:** Use 12 gauge ceiling hanger wire or $\frac{5}{16}$ " threaded rod to connect to the support channels on the backside of the panel. Supports should tie into the left and right sides of an individual support bracket to provide stability. It is recommended that for panel length of 72" and under to use a total of 4 wires/rods. For panels from 72" to 144" a minimum of 6 total wires/rods are to be used, with the third set tying into the middle support bracket.
- D. Place the pre-cut insulation that has been shipped separately on the backside of the panel.

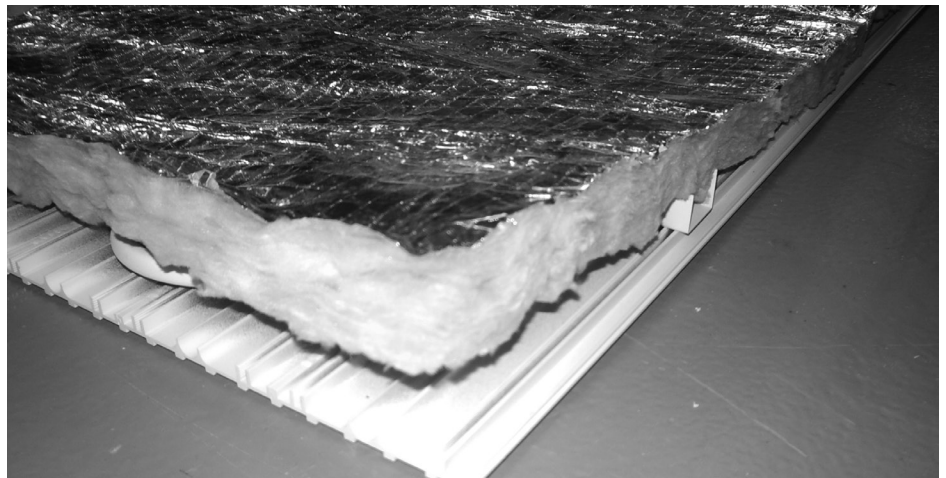
FEMALE EDGE OF EXTRUSION ▼



WIRE SUPPORT ▼



PRE-CUT INSULATION ▼







RADIANT PANELS

INSTALLATION & MOUNTING INSTRUCTIONS

Pipe Connection

- A. Before connecting the panels, flush and drain the water main system to remove excess particulates in the water lines from the construction and assembly processes.
- B. Connect water lines to the inlet and outlet of the panel. Panels use 1/2" nominal copper tube. Standard product is supplied with sweat (bare) ends. Optionally, 1/2" NPT-female fittings have been provided by the factory and shipped loose. These are to be soldered on the ends of the inlet and outlet tubing in the field.
 - i. If the hose and valve packages are required, the first step is to identify the package that has been provided

SH: Single Hose	
DH: Double Hose	
DHSO: Double Hose w/ Shut Offs	
DHMB: Double Hose w/ Manual Balancer	
DHAB: Double Hose w/ Auto Balancer	

- ii. The next step is to install the hose and valve package by making the necessary NPT connections following standard industry practices.
- C. Pressure test the system for leaks and isolate and fix any leaks that are found.
- D. Move water through the hydronic system at or above 0.5 gpm per panel to remove air from the panels. If 0.5 gpm per panel is not normally available, shut off flow through other panels to divert more water through the panels being flushed.

NPT CONNECTION ▼



RADIANT PANELS

INSTALLATION & MOUNTING INSTRUCTIONS

Maintenance

- A. Clean strainers as per the building maintenance schedule.
- B. Radiant panel pipe descaling will be accomplished with the building descaling flush as required by the building maintenance schedule.
- C. Clean the surface of the panels with water and mild detergent for smudging. Use a vacuum with a soft bristle end or dust cloth if dust attaches to the surface.

This document contains the most current product information as of this printing.
For the most up-to-date product information, please go to priceindustries.com

© 2014 Price Industries Limited. All rights reserved.

PRICE[®]