# PANEL RADIATOR

## Submittal

## Specification



PRF-2 5 3/4 8 3/4 2FT TO 19FT 2 PRF-3 3 8 5/8 11 5/8 2FT TO 19FT PRF-4 4 11 1/2 14 1/2 2FT TO 18FT PRF-5 14 3/8 17 3/8 2FT TO 18FT 5 17 1/4 PRF-6 20 1/4 2FT TO 17FT 6 PRF-7 7 20 1/4 23 1/4 2FT TO 17FT PRF-8 23 1/8 26 1/8 2FT TO 16FT 8 26 1/8 PRF-9 29 1/8 2FT TO 16FT 9 PRF-10 10 29 32 2FT TO 15FT

CAT-75572A

MODEL	BTU/Ft/Hr @ LISTED AWT & 65°f EAT									
	215° F	190° F	180° F	170° F	160° F	150° F	140° F	130° F	120° F	
PRF 01	545	427	383	340	299	258	219	182	146	
PRF 02	867	680	610	542	476	411	349	290	233	
PRF 03	1118	878	787	699	613	530	451	374	300	
<b>PRF 04</b>	1351	1060	951	844	741	641	544	452	363	
PRF 05	1718	1348	1209	1073	942	815	692	574	461	
<b>PRF 06</b>	1981	1555	1394	1238	1087	940	798	662	532	
PRF 07	2145	1762	1580	1403	1232	1065	905	751	603	
<b>PRF 08</b>	2387	1873	1680	1491	1309	1132	962	798	641	
PRF 09	2527	1983	1779	1579	1386	1199	1018	845	679	
<b>PRF 10</b>	2660	2088	1872	1662	1459	1262	1072	889	715	

	PROJECT: DATE:
COMMERCIAL HYDRONIC PRODUCTS 260 North Elm St., Westfield, MA 01085 (413) 564-5535 Fax: (413) 562-8437	ARCHITECT:ENGINEER:CONTRACTOR:
11/21 www.sterlingheat.com	PO NUMBER:

## **TYPICAL WALL MOUNTED INSTALLATION**



### TYPICAL FREE STANDING PEDESTAL MOUNTED INSTALLATION



PEDESTAL MOUNTING

#### STANDARD PIPING CONNECTION LOCATIONS

°C ΗG РС ΗF FEC EFH GDC DGH  $\square$ F ΔE Ε F LEFT SUPPLY RIGHT SUPPLY LEFT SUPPLY RIGHT SUPPLY H Н °C H CDH HGC DH GC CG DH RIGHT SUPPLY LEFT SUPPLY LEFT SUPPLY RIGHT SUPPLY Н °C °C Н H HDC CGH JKC KJH D LEFT SUPPLY RIGHT SUPPLY LEFT SUPPLY RIGHT SUPPLY J AND K CONNECTIONS ARE REAR FACING °C ΗF РC ΗF DFH FDC EGH GEC D ñ F F E F LEFT SUPPLY RIGHT SUPPLY LEFT SUPPLY RIGHT SUPPLY OPPOSITE END SERIES LEFT SUPPLY NOTES: С ΡC С -VENT ON EACH PANEL GDC GDC GDC -CAN ELIMINATE COSTLY RISERS -LOWER PD THAN SAME END SERIES G -UP TO 7 RADIATORS (100 FT) IN SERIES OPPOSITE END **RIGHT SUPPLY** -EXPANSION COMPENSATION PIPING TO BE PROVIDED BY OTHERS Ηđ Ηd Ηd DGH DGH DGH SAME END SERIES LEFT SUPPLY C Н Н Н NOTES: РC -SAME AWT OVER THE ENTIRE SAME DH GC DH GC HGC END SERIES -CAN ELIMINATE COSTLY RISERS G -HIGHER PD THAN OPPOSITE END SERIES RIGHT SUPPLY -NO MORE THAN 3 RADIATORS IN Н С Н С SERIES SAME END ΗЧ -EXPANSION COMPENSATION PIPING TO CDH CG DH CG DH BE PROVIDED BY OTHERS D

PR, PRF, PRC PIPING OPTIONS

CAT-75582C

## **Model PRF**

## PANEL RADIATOR SPECIFICATIONS

#### **Specifications**

Provide steel panel radiator elements of lengths and in locations as indicated, and of capacities, style, and having accessories as scheduled. The wall hung heating panel radiation shall be of one-piece all-welded steel construction, consisting of flattened water tubes welded to headers at each end. The radiator may include an optional integral heavy gauge all-welded perforated top grille when specified (for curved radiators the grille is omitted). PRF models to have steel corrugated fins welded to the rear side of the water tubes to increase the convective output of the unit. There shall be no less than 32 fins per foot. Fins shall start within 1" of the headers, and shall be spot-welded three times per tube.

All radiator header pipes are square 0.109" minimum wall thickness. The headers shall include all necessary inlet, outlet and vent connections as required. Standard connection sizes are ½" NPT tapered thread for supply and return piping, and 1/8" for the vent connection. Internal baffling is provided where required for proper water flow. Option 29, ¾" NPT connections are available at an additional cost, when specified.

The radiant heating panels shall be available in lengths from 2'-0" to 20'-0" in two inch even increments without the need for splicing. The panel radiation shall be capable of being mounted to typical stud wall construction without additional blocking or strapping. Appropriate wall mounting brackets shall be provided with the panel radiation. Optional floor mounting pedestal brackets shall be provided at an additional cost when specified. Panel radiation expansion shall not exceed 1/64" per foot of radiation at 215°F. The installer shall provide adequate expansion compensation for each radiator.

#### **Pressure Ratings:**

Pressure ratings for the panel radiators shall be as follows:

LOW (Standard)- .048" minimum wall thickness. Working pressure 56-PSI maximum, Test Pressure-74 PSI maximum

OR

MEDIUM (Optional)- .058" minimum wall thickness. Working pressure 85-PSI maximum, Test Pressure-110 PSI maximum

OR

HIGH (Optional)- .078" minimum wall thickness. Working pressure 128-PSI maximum, Test Pressure 184 PSI maximum

#### **Finishes:**

The panel radiation shall be cleaned and phosphatized in preparation for the powder coat finish. The radiation is then finish painted with a gloss powder coat finish, for a total paint thickness of 2-3 mils (0.002" - 0.003"). The color shall be selected from Sterling's standard commercial colors. Optional custom colors shall be available at and additional cost.

#### Warranty:

A 5-Year Limited Warranty covers all Sterling panel radiators.

#### **Options:**

Optional floor mounting post brackets are available at an additional cost with the panel radiators (up to 10 tubes high) when specified.

Ribbed pipe cover trims (up to 10 tubes high), finished to match the radiators shall be provided with the radiation when specified.

Optional integral heavy gauge all-welded perforated top grille is available at an additional cost, when specified.