

PANEL RADIATOR

APPLICATION MANUAL

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Panel Radiator Specifications

1. Radiators are manufactured of cold rolled low carbon steel, fully welded, and consisting of header pipes at each end, connected by flat oval water tubes.
2. Two tube thicknesses are available:
 - Standard Pressure - 0.048" min wall thickness
 - High Pressure - 0.078" min wall thickness
3. Radiator header pipes are square 0.109" min wall thickness and include all necessary supply, return, and air vent connections. Internal baffling is provided as required.
4. Standard piping connections are 1/2" NPT taper threaded sockets, located in either side, or vertical positions. Optional 3/4" NPT connections are available. Air vent connections are 1/8" NPT taper threaded sockets.
5. Two working pressures are available:
 - Standard Pressure - 56 psi max (Tested at 74 psi)
 - High Pressure - 128 psi max (Tested at 184 psi)
6. Radiator expansion does not exceed 0.016 inch per linear foot at 215°F. Expansion compensation to be provided in the piping as required, by others.
7. Radiators are cleaned and phosphatized in preparation for the finish powder coat.
8. Radiators are painted with a gloss powder coat finish, for a total paint thickness of 2 to 3 mils (0.002"-0.003"). In harsh environments, anti-corrosion finish paint should be specified.
9. Color of the finish paint shall be selected from available standard or optional colors prior to ordering.
10. A gray primer powder coat finish is available as a base coat for a custom paint finish by others.
11. Wall mounting brackets are provided with radiators, unless floor posts are specified.
12. Necessary wall support blocking for proper radiator mounting shall be by others.
13. Radiators are manufactured in the USA to the sizes, capacities, and quantities as shown on the plans and schedules.

Panel Radiator Ratings

MODEL PR

MODEL TYPE	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
PR 01	231	181	162	144	127	109	93	77	62
PR 02	416	326	292	260	228	197	167	139	112
PR 03	615	483	433	384	337	292	248	206	165
PR 04	811	636	571	507	445	385	327	271	218
PR 05	1012	794	712	632	555	480	408	338	272
PR 06	1219	956	858	761	668	578	491	407	327
PR 07	1429	1122	1006	893	784	678	576	478	384
PR 08	1638	1285	1153	1023	898	777	660	547	440
PR 09	1846	1449	1300	1154	1013	876	744	617	496
PR 10	2057	1614	1448	1285	1128	976	829	688	552

MODEL PR2

MODEL TYPE	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
PR2 01	480	374	331	293	254	216	192	158	125
PR2 02	862	672	595	526	457	388	345	284	224
PR2 03	1274	994	879	777	675	573	510	420	331
PR2 04	1680	1310	1159	1025	890	756	672	554	437
PR2 05	2096	1635	1446	1279	1111	943	838	692	545
PR2 06	2524	1969	1742	1540	1338	1136	1010	833	656
PR2 07	2960	2309	2042	1806	1569	1332	1184	977	770
PR2 08	3392	2646	2340	2069	1798	1526	1357	1119	882
PR2 09	3820	2980	2636	2330	2025	1719	1528	1261	993
PR2 10	4260	3323	2939	2599	2258	1917	1704	1406	1108

MODEL PRF

MODEL TYPE	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
PRF 04	1351	1060	951	844	741	641	544	452	363
PRF 05	1718	1348	1209	1073	942	815	692	574	461
PRF 06	1981	1555	1394	1238	1087	940	798	662	532
PRF 07	2145	1762	1580	1403	1232	1065	905	751	603
PRF 08	2387	1873	1680	1491	1309	1132	962	798	641
PRF 09	2527	1983	1779	1579	1386	1199	1018	845	679
PRF 10	2660	2088	1872	1662	1459	1262	1072	889	715

Panel Radiator Ratings

MODEL PR2F

MODEL TYPE	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
PR2F 01	979	769	689	612	537	465	395	327	263
PR2F 02	1589	1247	1118	993	872	754	640	531	427
PR2F 03	2019	1584	1421	1261	1108	958	813	675	542
PR2F 04	2417	1897	1701	1510	1326	1147	974	808	649
PR2F 05	3094	2498	2177	1933	1697	1457	1246	1034	831
PR2F 06	3470	2723	2443	2168	1904	1646	1398	1160	932
PR2F 07	3846	3018	2707	2403	2110	1824	1549	1286	1033
PR2F 08	4211	3304	2963	2631	2310	1997	1696	1408	1131
PR2F 09	4432	3478	3119	2769	2431	2102	1785	1481	1190
PR2F 10	4644	3645	3269	2901	2548	2203	1871	1552	1247

MODEL PR3F

MODEL TYPE	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
PR3F 01	1299	1020	914	812	713	616	523	434	349
PR3F 02	2014	1581	1418	1258	1105	955	811	673	541
PR3F 03	2572	2018	1810	1607	1411	1220	1036	860	691
PR3F 04	3082	2418	2169	1925	1690	1462	1241	1030	828
PR3F 05	3788	2973	2666	2367	2078	1797	1526	1266	1017
PR3F 06	4263	3345	3000	2663	2338	2022	1717	1425	1145
PR3F 07	4738	3718	3335	2960	2599	2247	1909	1584	1273
PR3F 08	5200	4080	3660	3248	2852	2466	2095	1738	1396
PR3F 09	5451	4278	3836	3405	2990	2585	2196	1822	1464
PR3F 10	5691	4466	4005	3556	3122	2699	2293	1902	1528

MODEL PRC

MODEL TYPE	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
PRC 01	144	113	101	90	79	68	58	48	39
PRC 02	271	213	191	169	149	129	109	91	73
PRC 03	401	315	282	250	220	190	162	134	108
PRC 04	528	415	372	330	290	251	213	177	142
PRC 05	659	517	464	412	362	313	266	220	177
PRC 06	795	624	559	496	436	377	320	266	213
PRC 07	932	731	656	582	511	442	375	311	250
PRC 08	1067	837	751	667	585	506	430	357	287
PRC 09	1203	944	847	752	660	571	485	402	323
PRC 10	1340	1052	943	837	735	636	540	448	360

Panel Radiator Ratings

MODEL PRV

MODEL TYPE	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
PRV 01	200	157	141	125	110	95	80	67	54
PRV 02	399	313	281	249	219	189	161	133	107
PRV 03	599	470	421	374	329	284	241	200	161
PRV 04	798	627	562	499	438	379	322	267	214
PRV 05	998	783	702	624	548	473	402	334	268
PRV 06	1198	940	843	748	657	568	483	400	322
PRV 07	1397	1097	983	873	767	663	563	467	375
PRV 08	1597	1253	1124	998	876	757	643	534	429
PRV 09	1796	1410	1264	1122	986	852	724	601	483
PRV 10	1996	1566	1405	1247	1095	947	808	667	536

CORRECTION FACTORS FOR WATER TEMPERATURES AND AIR TEMPERATURES OTHER THAN STANDARD

AWT	EAT ▼										
	45°F	50°F	55°F	60°F	65°F	70°F	75°F	80°F	85°F	90°F	95°F
240°F	1.365	1.350	1.304	1.266	1.220	1.171	1.124	1.086	1.039	1.0	.953
235°F	1.343	1.305	1.267	1.219	1.171	1.124	1.086	1.038	1.0	.952	.910
230°F	1.305	1.267	1.219	1.171	1.124	1.086	1.038	1.0	.952	.910	.868
225°F	1.267	1.219	1.171	1.124	1.086	1.038	1.0	.952	.910	.868	.826
220°F	1.219	1.171	1.124	1.086	1.038	1.0	.952	.910	.868	.826	.785
215°F ▶	1.171	1.124	1.086	1.038	1.0	.952	.910	.868	.826	.785	.744
210°F	1.124	1.086	1.038	1.0	.952	.910	.868	.826	.785	.744	.704
205°F	1.086	1.038	1.0	.952	.910	.868	.826	.785	.744	.704	.664
200°F	1.038	1.0	.952	.910	.868	.826	.785	.744	.704	.664	.625
195°F	1.0	.952	.910	.868	.826	.785	.744	.704	.664	.625	.587
190°F	.952	.910	.868	.826	.785	.744	.704	.664	.625	.587	.549
185°F	.910	.868	.826	.785	.744	.704	.664	.625	.587	.549	.511
180°F	.868	.826	.785	.744	.704	.664	.625	.587	.549	.511	.474
175°F	.826	.785	.744	.704	.664	.625	.587	.549	.511	.474	.438
170°F	.785	.744	.704	.664	.625	.587	.549	.511	.474	.438	.403
165°F	.744	.704	.664	.625	.587	.549	.511	.474	.438	.403	.369
160°F	.704	.664	.625	.587	.549	.511	.474	.438	.403	.369	.334
155°F	.664	.625	.587	.549	.511	.474	.438	.403	.369	.334	.301
150°F	.625	.587	.549	.511	.474	.438	.403	.369	.334	.301	.269
145°F	.587	.549	.511	.474	.438	.403	.369	.334	.301	.269	.237
140°F	.549	.511	.474	.438	.403	.369	.334	.301	.269	.237	.207
135°F	.511	.474	.438	.403	.369	.334	.301	.269	.237	.207	.177
130°F	.474	.438	.403	.369	.334	.301	.269	.237	.207	.177	.149
125°F	.438	.403	.369	.334	.301	.269	.237	.207	.177	.149	.122
120°F	.403	.369	.334	.301	.269	.237	.207	.177	.149	.122	.096
115°F	.369	.334	.301	.269	.237	.207	.177	.149	.122	.096	.071
110°F	.334	.301	.269	.237	.207	.177	.149	.122	.096	.071	.500
105°F	.301	.269	.237	.207	.177	.149	.122	.096	.071	.500	.030
100°F	.269	.237	.207	.177	.149	.122	.096	.071	.500	.030	.011

EXAMPLE: To find the BTUH/ft Rating for a PRF-4 Panel at 145°F AWT and 65°F EAT, multiply the correction factor (0.438) by the BTU/FT/HR rating at 215°F (1351), e.g. (0.438) X (1351) = 592 BTU/FT/HR

System Design Flow Rate and Temperature Drop

The design water temperature drop through traditional hydronic heating equipment is typically figured at a 20°F drop (20°F ΔT). This is because traditional heating equipment utilizes round water tubes in its design. At water temperature drops greater than 20°F ΔT, the water flow rate is so low that it produces laminar flow through the round tube. With laminar flow, there is little or no heat transfer between the water and the round tube, and the heating equipment does not produce heat.

Panel Radiators, on the other hand, utilize flattened water tubes. The water flow through flattened water tubes is turbulent, even at extremely low flow rates; assuring excellent heat transfer between the water and the flattened tubes. Water temperature drops of 40°F ΔT, or even 60°F ΔT, are possible with Panel Radiators.

Designing with larger design water temperature drops can lead to great savings in the overall cost of a heating system. For example, designing with a 40°F ΔT in lieu of a 20°F ΔT means that the required flow rate is cut in half, to provide the same heat output:

$$\text{Flow Rate} = (\text{Heating Capacity}) \div (\Delta T \times 500)$$

Half the flow rate means smaller piping, less insulation, smaller pumps, smaller expansion tanks, etc – all leading to a lower cost for the heating system.

In Europe (where energy costs are much higher), almost all hydronic heating systems are designed around water temperature drops of 40°F ΔT or more to save pumping energy costs.

How to Determine Flow Rates

The flow rate through a Panel Radiator (or series of radiators) is dependent on the length of the radiator (or combined length of the radiator series), and the design Entering Water Temperature (EWT) and the design Leaving Water Temperature (LWT).

The designer picks the design EWT and LWT. For example, they might pick 170°F as the EWT and 150°F as the LWT. The median point between these two temperatures is called the Average Water Temperature (AWT), and in this example, the AWT is 160°F.

The Panel Radiator Heating Capacity charts are based on the heating capacity per foot of radiator, based on the designer's chosen AWT, and this heating capacity per foot is expressed in units of BTUH/FT @ a given AWT. The required flow rate (GPM) is calculated as follows:

$$\text{Flow Rate} = (\text{Heating Capacity per Foot} \times \text{Radiator Length}) \div ((\text{EWT} - \text{LWT}) \times 500)$$

The (EWT – LWT) is commonly referred to as the "Delta T", or "ΔT".

Therefore, our Flow Rate formula becomes:

$$\text{GPM} = (\text{Heating Capacity}) \div (\Delta T \times 500)$$

As an example, let's say our designer needs 445 BTUH/FT capacity, over a 10'-0" span of wall, and has chosen the design water temperatures as EWT = 170°F, and LWT = 150°F. This means our AWT is 160°F. Looking in the Panel Radiator type "PR" radiator Heating Capacity chart, we see that an PR-4 radiator gives us the required 445 BTUH/FT at 160°F AWT. Therefore, the required flow rate for the 10'-0" long PR-4 radiator is:

$$\text{GPM} = (445 \text{ BTUH/FT} \times 10\text{FT}) \div (20^\circ\text{F} \Delta T \times 500) = 0.445 \text{ GPM}$$

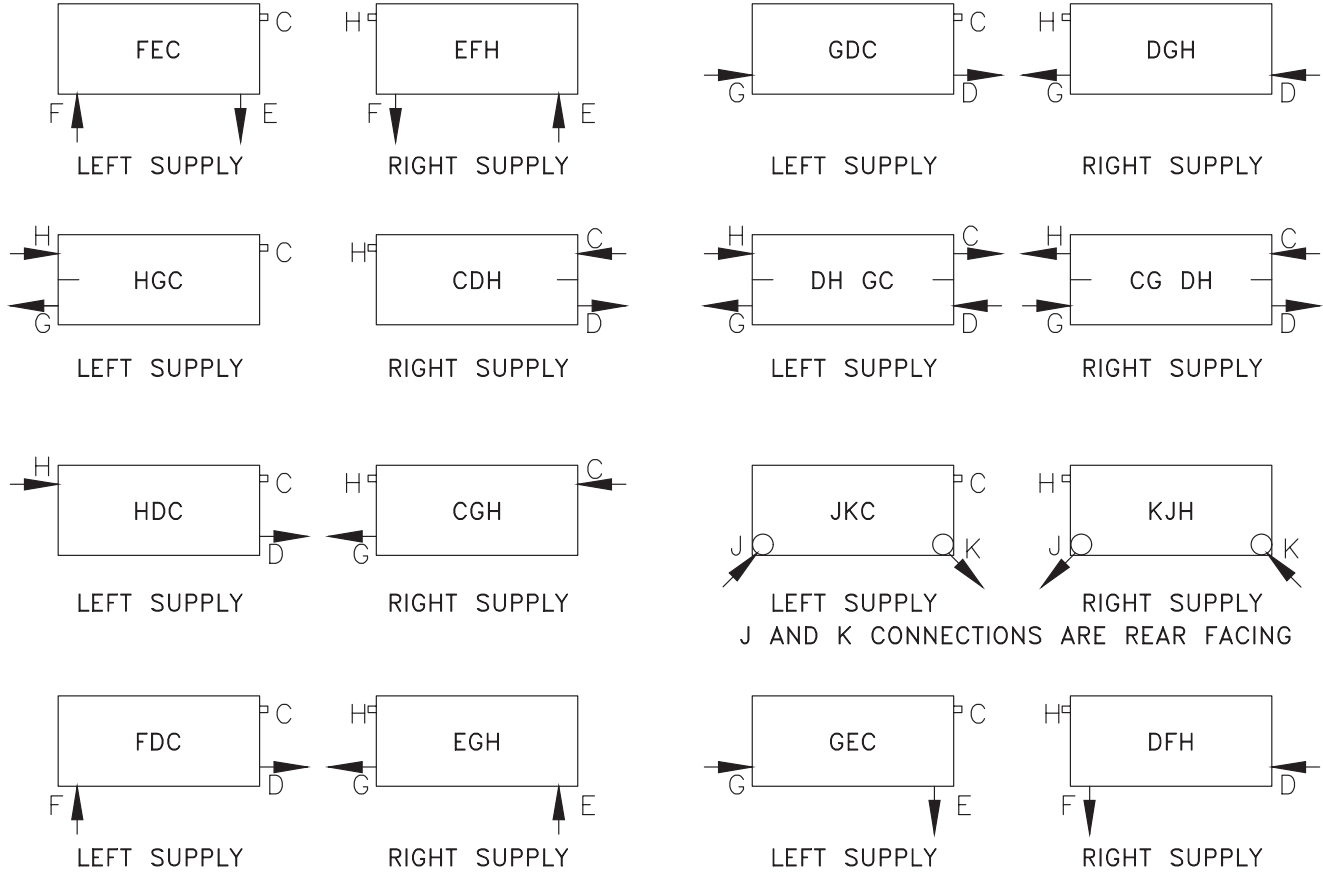
Note that there are various combinations of EWT and LWT that can result in the same AWT. In our example above, for instance, a 180°F EWT and a 140°F LWT result in the same 160°F AWT. Panel Radiators' unique flattened water tube design allows Delta T's of up to 60°F without concern that the flow rate is too low for heat transfer.

As for a maximum flow rate for Panel Radiators, we recommend no more than 1.5 GPM per water tube. For our PR-4 example above, this would mean a maximum flow rate of 6.0 GPM for an opposite end piped radiator, or 3.0 GPM for a same end piped radiator.

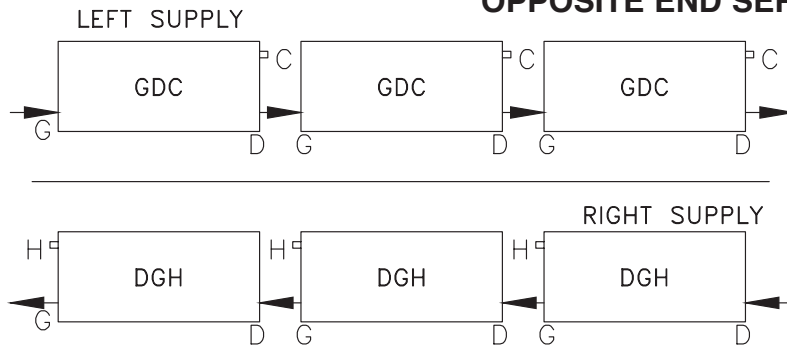
Standard Piping Connection Locations

MODELS PR, PRF, PRC

PIPING OPTIONS

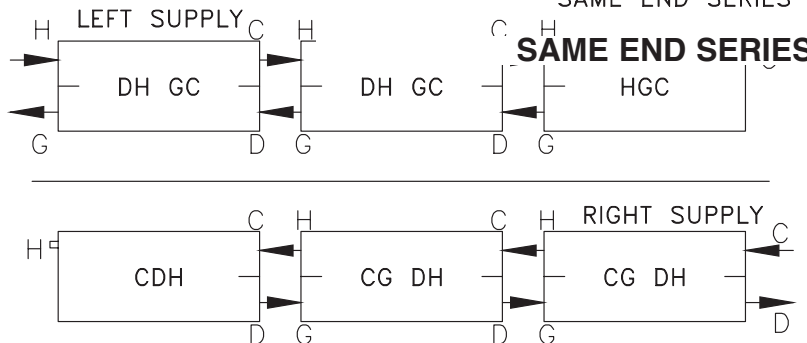


OPPOSITE END SERIES



- NOTES:
- VENT ON EACH PANEL
 - CAN ELIMINATE COSTLY RISERS
 - LOWER PD THAN SAME END SERIES
 - UP TO 7 RADIATORS (100 FT) IN SERIES OPPOSITE END
 - EXPANSION COMPENSATION PIPING TO BE PROVIDED BY OTHERS

SAME END SERIES



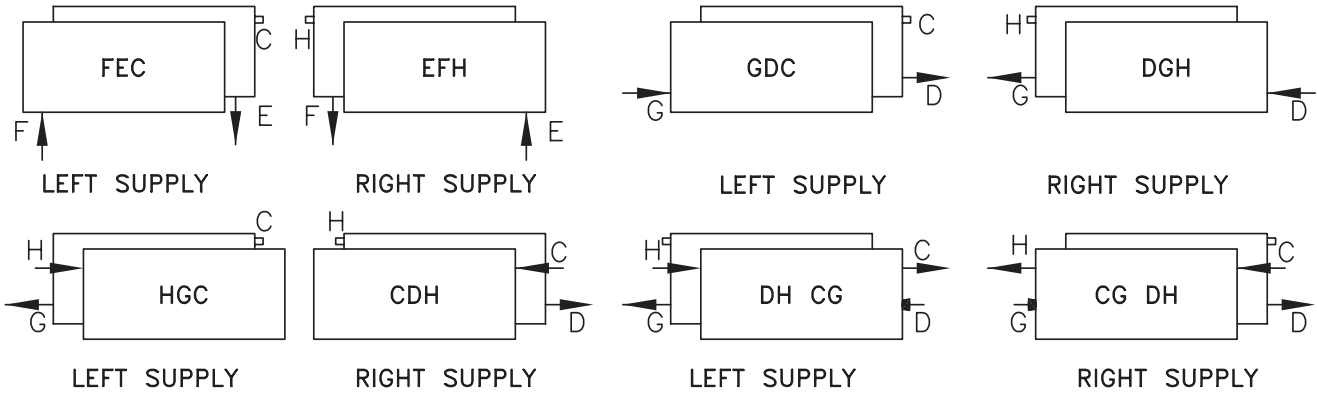
- NOTES:
- SAME AWI OVER THE ENTIRE SAME END SERIES
 - CAN ELIMINATE COSTLY RISERS
 - HIGHER PD THAN OPPOSITE END SERIES
 - NO MORE THAN 3 RADIATORS IN SERIES SAME END
 - EXPANSION COMPENSATION PIPING TO BE PROVIDED BY OTHERS

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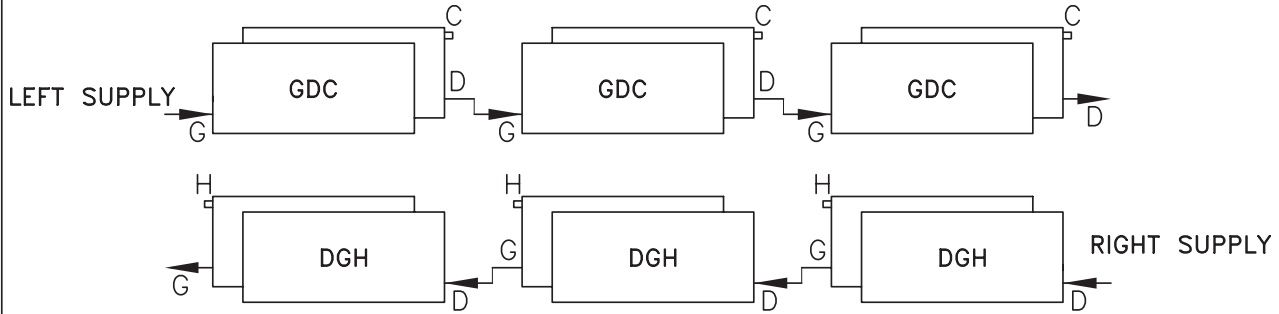
Standard Piping Connection Locations

MODELS PR2, PR2F, PR3F

PIPING OPTIONS



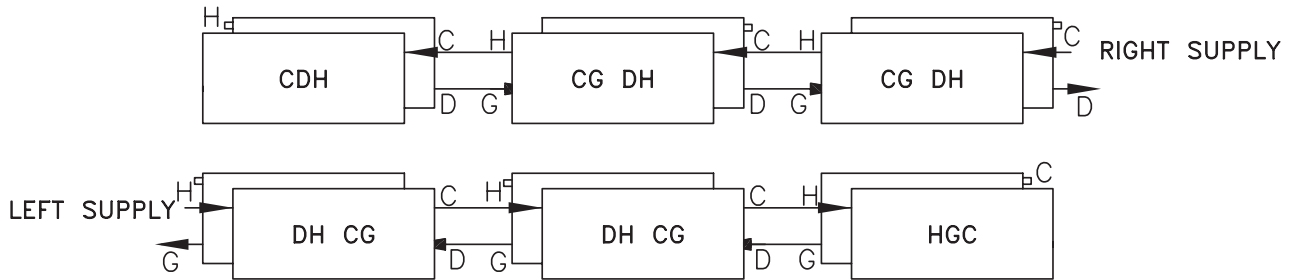
OPPOSITE END SERIES



NOTES:

- VENT ON EACH PANEL
- CAN ELIMINATE COSTLY RISERS
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- UP TO 7 RADIATORS (100 FT) IN SERIES OPPOSITE END
- EXPANSION COMPENSATION PIPING TO BE PROVIDED BY OTHERS

SAME END SERIES



NOTES:

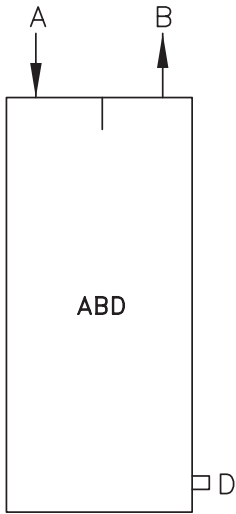
- SAME AWT OVER THE ENTIRE SAME END SERIES
- CAN ELIMINATE COSTLY RISERS
- HIGHER PD THAN OPPOSITE END SERIES
- NO MORE THAN 3 RADIATORS IN SERIES SAME END
- EXPANSION COMPENSATION PIPING TO BE PROVIDED BY OTHERS

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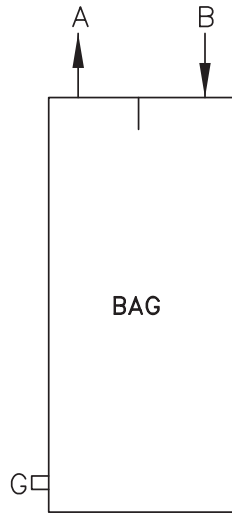
Standard Piping Connection Locations

MODEL PRV

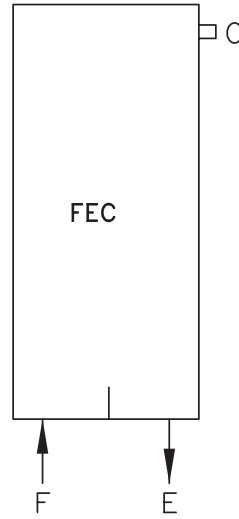
PIPING OPTIONS



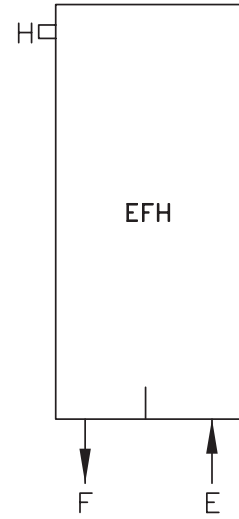
LEFT SUPPLY



RIGHT SUPPLY

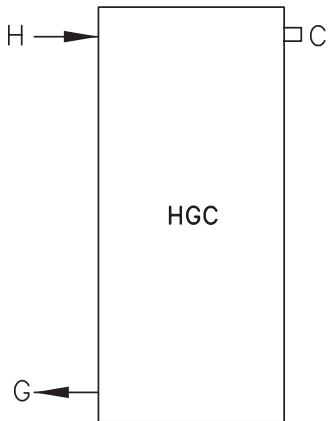


LEFT SUPPLY

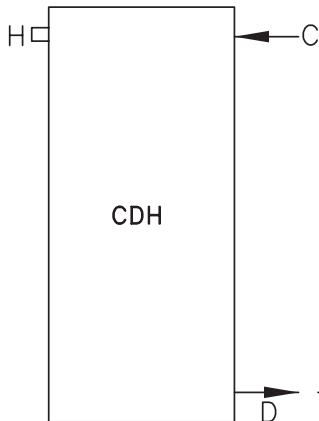


RIGHT SUPPLY

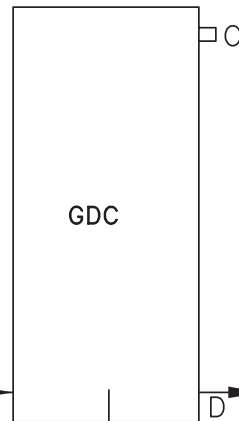
(VENT IS NOT REQUIRED ON UNITS WITH TOP SUPPLY/RETURN, UNITS SUPPLIED WITH DRAIN PLUG,)



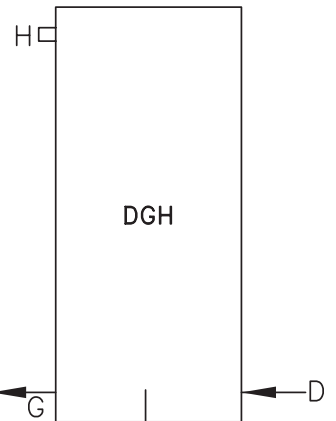
LEFT SUPPLY



RIGHT SUPPLY



LEFT SUPPLY



RIGHT SUPPLY

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Same End Piping Connection Considerations

- Pipe with supply at top and return at bottom.
- Do not pipe with supply at bottom.
- Panel Radiators are not coils and water and air do not run through a panel radiator in the same manner as a coil.

Air side: Unlike a coil, where the air is heated by being pushed through the coil front to back, a panel radiator is like a plate heat exchanger: the air flow is bottom to top, running parallel with the tube face. The most efficient heat exchange is counterflow heat exchange, which is what a panel radiator with the supply water in the top and the return at the bottom does. The hottest water is in the top of the radiator with the coolest water at the bottom while on the air side the coolest air is at the bottom with the warmest air at the top.

Water flow: See Figure 1 (next page). A baffle on the supply end separates the supply tubes from the return tubes. However, by design, this baffle is not completely sealed. As can be seen from Figure 2 (next page), there are tiny weep holes that allow air trapped beneath the baffle to bubble up to the supply tubes. From there, air is pushed towards the vent, where it can be eliminated.

In the incorrectly piped radiator in Figure 1, the flow of water pushes the air away from the vent. If a control valve stops the flow of water, it is possible to build up enough air to form a blockage. The installer can bleed water out of the vent, and assume there is not an air problem, but no amount of bleeding will get rid of this air blockage. Air blockage is not a common problem with a single same end piped radiator, but when there is an issue, it is typically because the radiator has been piped incorrectly.

Air blockage occurs much more frequently in a two or three radiator same end series, as illustrated in Figure 3 (next page). When piped correctly, any air in the top tubes is pushed towards the vent and any air in the bottom tubes bubbles up through the weep holes and again is pushed towards the vent.

However, when piped incorrectly, air blockages can occur, most typically happening at the outlet of the second or third radiator in series. In this case, another interesting thing happens. Since the water cannot flow through the blocked radiator(s), it will build up enough pressure to flow through the first (or first and second) radiator's weep holes. Enough flow goes through so that the first (and perhaps the second) radiator get warm, depending on whether the blockage occurred in the second or third radiator. The installer vents the third radiator and nothing but water comes out, so it is assumed there is something wrong with the radiator.

- Review figures on following page.
- Ensure same end connections are installed correctly.

Same End Piping Connection Considerations

RADIATORS WITH SAME END PIPE CONNECTIONS

SINGLE RADIATORS

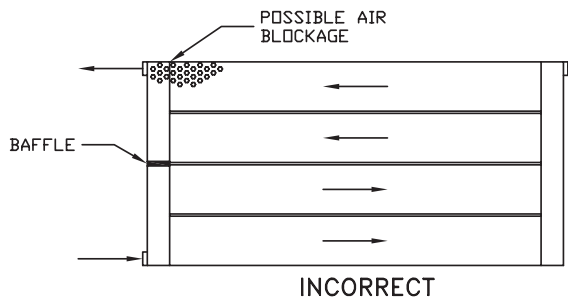
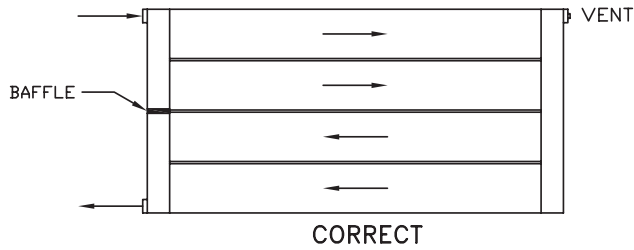


Figure 1

BAFFLE DETAIL

VIEW FROM TOP OF HEADER

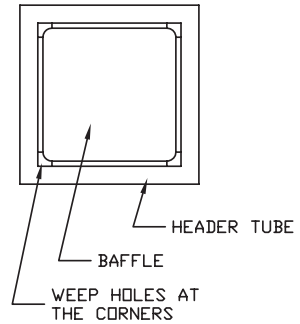


Figure 2

SAME END SERIES RADIATORS

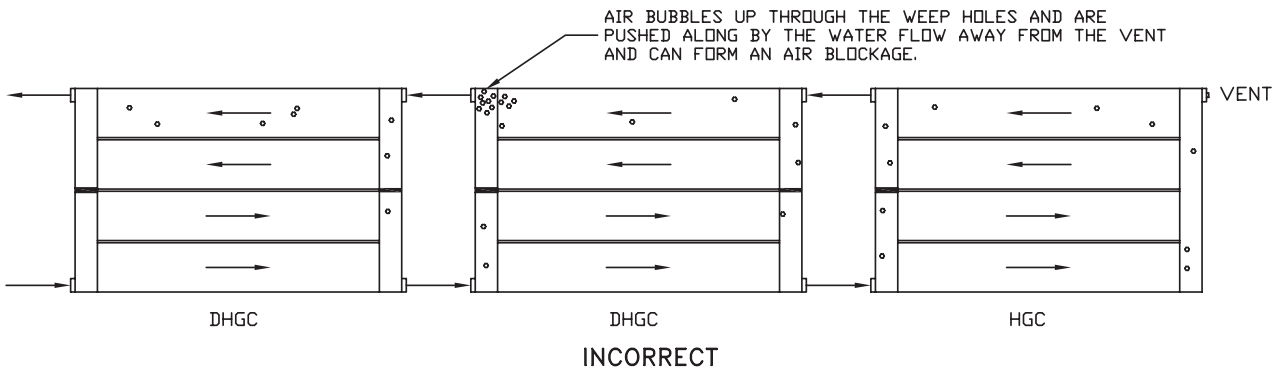
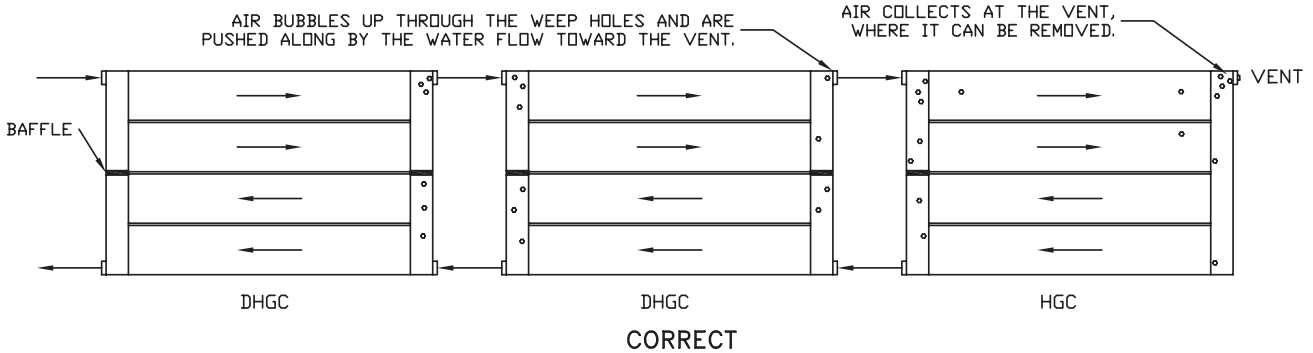


Figure 3

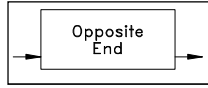
CAT-79883

Panel Radiator Pressure Drops

PRESSURE DROP: OPPOSITE END

Radiator Pressure Drop - Feet of Head Per Radiator

Models PR, PRF, PRC



GPM	NUMBER OF TUBES WITH SUPPLY WATER FLOW										PER 1/2" Connection
	1	2	3	4	5	6	7	8	9	10	

LOW PRESSURE TUBE

0.50	0.21	0.05	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
0.75	0.45	0.12	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
1.00	0.79	0.21	0.09	0.05	0.04	0.02	0.02	0.01	0.01	0.01	0.03
1.50	1.72	0.45	0.21	0.12	0.08	0.05	0.04	0.03	0.02	0.02	0.04
2.00	3.00	0.79	0.36	0.21	0.13	0.09	0.07	0.05	0.04	0.04	0.06
2.50	4.61	1.21	0.55	0.32	0.21	0.15	0.11	0.08	0.07	0.05	0.08
3.00	6.56	1.72	0.79	0.45	0.29	0.21	0.15	0.12	0.09	0.08	0.10
3.50	8.83	2.32	1.06	0.61	0.40	0.28	0.21	0.16	0.13	0.10	0.15
4.00	11.42	3.00	1.37	0.79	0.51	0.36	0.27	0.21	0.16	0.13	0.18
4.50	14.34	3.76	1.72	0.99	0.64	0.45	0.34	0.26	0.21	0.17	0.20
5.00	17.57	4.61	2.11	1.21	0.79	0.55	0.41	0.32	0.25	0.21	0.25
5.50	21.12	5.54	2.53	1.45	0.95	0.67	0.49	0.38	0.30	0.25	0.28
6.00	24.98	6.56	3.00	1.72	1.12	0.79	0.58	0.45	0.36	0.29	0.33
6.50	29.15	7.65	3.50	2.01	1.31	0.92	0.68	0.53	0.42	0.34	0.37
7.00	33.64	8.83	4.04	2.32	1.51	1.06	0.79	0.61	0.48	0.40	0.42
7.50	38.43	10.08	4.61	2.65	1.72	1.21	0.90	0.69	0.55	0.45	0.50
8.00	43.52	11.42	5.22	3.00	1.95	1.37	1.02	0.79	0.63	0.51	0.56

HIGH PRESSURE TUBE

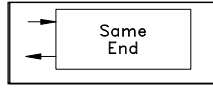
0.50	0.82	0.22	0.10	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.01
0.75	1.79	0.47	0.22	0.12	0.08	0.06	0.04	0.03	0.03	0.02	0.01
1.00	3.13	0.82	0.38	0.22	0.14	0.10	0.07	0.06	0.05	0.04	0.03
1.50	6.84	1.79	0.82	0.47	0.31	0.22	0.16	0.12	0.10	0.08	0.04
2.00	11.91	3.13	1.43	0.82	0.53	0.38	0.28	0.22	0.17	0.14	0.06
2.50	18.33	4.81	2.20	1.26	0.82	0.58	0.43	0.33	0.26	0.22	0.08
3.00	26.06	6.84	3.13	1.79	1.17	0.82	0.61	0.47	0.38	0.31	0.10
3.50	35.09	9.21	4.21	2.42	1.57	1.10	0.82	0.63	0.51	0.41	0.15
4.00	45.40	11.91	5.45	3.13	2.03	1.43	1.06	0.82	0.65	0.53	0.18
4.50	56.99	14.96	6.84	3.92	2.55	1.79	1.33	1.03	0.82	0.67	0.20
5.00	69.84	18.33	8.38	4.81	3.13	2.20	1.63	1.26	1.01	0.82	0.25
5.50	83.95	22.03	10.07	5.78	3.76	2.64	1.96	1.52	1.21	0.99	0.28
6.00	99.30	26.06	11.91	6.84	4.45	3.13	2.32	1.79	1.43	1.17	0.33
6.50	115.88	30.41	13.91	7.98	5.19	3.65	2.71	2.09	1.67	1.36	0.37
7.00	133.70	35.09	16.04	9.21	5.99	4.21	3.13	2.42	1.93	1.57	0.42
7.50	152.74	40.08	18.33	10.52	6.84	4.81	3.57	2.76	2.20	1.79	0.50
8.00	173.01	45.40	20.76	11.91	7.75	5.45	4.05	3.13	2.49	2.03	0.56

Panel Radiator Pressure Drops

PRESSURE DROP: SAME END

Radiator Pressure Drop - Feet of Head Per Radiator

Models PR, PRF, PRC



GPM	NUMBER OF TUBES WITH SUPPLY WATER FLOW									PER 1/2" Connection
	1	1	2	2	3	3	4	4	5	

LOW PRESSURE TUBE

0.50	0.21	0.21	0.05	0.05	0.02	0.02	0.01	0.01	0.01	0.01
0.75	0.45	0.45	0.12	0.12	0.05	0.05	0.03	0.03	0.02	0.01
1.00	0.79	0.79	0.21	0.21	0.09	0.09	0.05	0.05	0.04	0.03
1.50	1.72	1.72	0.45	0.45	0.21	0.21	0.12	0.12	0.08	0.04
2.00	3.00	3.00	0.79	0.79	0.36	0.36	0.21	0.21	0.13	0.06
2.50	4.61	4.61	1.21	1.21	0.55	0.55	0.32	0.32	0.21	0.08
3.00	6.56	6.56	1.72	1.72	0.79	0.79	0.45	0.45	0.29	0.10
3.50	8.83	8.83	2.32	2.32	1.06	1.06	0.61	0.61	0.40	0.15
4.00	11.42	11.42	3.00	3.00	1.37	1.37	0.79	0.79	0.51	0.18
4.50	14.34	14.34	3.76	3.76	1.72	1.72	0.99	0.99	0.64	0.20
5.00	17.57	17.57	4.61	4.61	2.11	2.11	1.21	1.21	0.79	0.25
5.50	21.12	21.12	5.54	5.54	2.53	2.53	1.45	1.45	0.95	0.28
6.00	24.98	24.98	6.56	6.56	3.00	3.00	1.72	1.72	1.12	0.33
6.50	29.15	29.15	7.65	7.65	3.50	3.50	2.01	2.01	1.31	0.37
7.00	33.64	33.64	8.83	8.83	4.04	4.04	2.32	2.32	1.51	0.42
7.50	38.43	38.43	10.08	10.08	4.61	4.61	2.65	2.65	1.72	0.50
8.00	43.52	43.52	11.42	11.42	5.22	5.22	3.00	3.00	1.95	0.56

HIGH PRESSURE TUBE

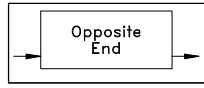
0.50	0.82	0.82	0.22	0.22	0.10	0.10	0.06	0.06	0.04	0.01
0.75	1.79	1.79	0.47	0.47	0.22	0.22	0.12	0.12	0.08	0.01
1.00	3.13	3.13	0.82	0.82	0.38	0.38	0.22	0.22	0.14	0.03
1.50	6.84	6.84	1.79	1.79	0.82	0.82	0.47	0.47	0.31	0.04
2.00	11.91	11.91	3.13	3.13	1.43	1.43	0.82	0.82	0.53	0.06
2.50	18.33	18.33	4.81	4.81	2.20	2.20	1.26	1.26	0.82	0.08
3.00	26.06	26.06	6.84	6.84	3.13	3.13	1.79	1.79	1.17	0.10
3.50	35.09	35.09	9.21	9.21	4.21	4.21	2.42	2.42	1.57	0.15
4.00	45.40	45.40	11.91	11.91	5.45	5.45	3.13	3.13	2.03	0.18
4.50	56.99	56.99	14.96	14.96	6.84	6.84	3.92	3.92	2.55	0.20
5.00	69.84	69.84	18.33	18.33	8.38	8.38	4.81	4.81	3.13	0.25
5.50	83.95	83.95	22.03	22.03	10.07	10.07	5.78	5.78	3.76	0.28
6.00	99.30	99.30	26.06	26.06	11.91	11.91	6.84	6.84	4.45	0.33
6.50	115.88	115.88	30.41	30.41	13.91	13.91	7.98	7.98	5.19	0.37
7.00	133.70	133.70	35.09	35.09	16.04	16.04	9.21	9.21	5.99	0.42
7.50	152.74	152.74	40.08	40.08	18.33	18.33	10.52	10.52	6.84	0.50
8.00	173.01	173.01	45.40	45.40	20.76	20.76	11.91	11.91	7.75	0.56

Panel Radiator Pressure Drops

PRESSURE DROP: OPPOSITE END

Radiator Pressure Drop - Feet of Head Per Radiator

Models PR2, PR2F, PR3F



GPM	NUMBER OF TUBES WITH SUPPLY WATER FLOW										PER 1/2" Connection
	2	4	6	8	10	12	14	16	18	20	

LOW PRESSURE TUBE

0.50	0.05	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
0.75	0.12	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01
1.00	0.21	0.05	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.03
1.50	0.45	0.12	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.04
2.00	0.79	0.21	0.09	0.05	0.04	0.02	0.02	0.01	0.01	0.01	0.06
2.50	1.21	0.32	0.15	0.08	0.05	0.04	0.03	0.02	0.02	0.01	0.08
3.00	1.72	0.45	0.21	0.12	0.08	0.05	0.04	0.03	0.02	0.02	0.10
3.50	2.32	0.61	0.28	0.16	0.10	0.07	0.05	0.04	0.03	0.03	0.15
4.00	3.00	0.79	0.36	0.21	0.13	0.09	0.07	0.05	0.04	0.04	0.18
4.50	3.76	0.99	0.45	0.26	0.17	0.12	0.09	0.07	0.05	0.04	0.20
5.00	4.61	1.21	0.55	0.32	0.21	0.15	0.11	0.08	0.07	0.05	0.25
5.50	5.54	1.45	0.67	0.38	0.25	0.17	0.13	0.10	0.08	0.07	0.28
6.00	6.56	1.72	0.79	0.45	0.29	0.21	0.15	0.12	0.09	0.08	0.33
6.50	7.65	2.01	0.92	0.53	0.34	0.24	0.18	0.14	0.11	0.09	0.37
7.00	8.83	2.32	1.06	0.61	0.40	0.28	0.21	0.16	0.13	0.10	0.42
7.50	10.08	2.65	1.21	0.69	0.45	0.32	0.24	0.18	0.15	0.12	0.50
8.00	11.42	3.00	1.37	0.79	0.51	0.36	0.27	0.21	0.16	0.13	0.56

HIGH PRESSURE TUBE

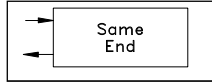
0.50	0.22	0.06	0.03	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
0.75	0.47	0.12	0.06	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
1.00	0.82	0.22	0.10	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.03
1.50	1.79	0.47	0.22	0.12	0.08	0.06	0.04	0.03	0.03	0.02	0.04
2.00	3.13	0.82	0.38	0.22	0.14	0.10	0.07	0.06	0.05	0.04	0.06
2.50	4.81	1.26	0.58	0.33	0.22	0.15	0.11	0.09	0.07	0.06	0.08
3.00	6.84	1.79	0.82	0.47	0.31	0.22	0.16	0.12	0.10	0.08	0.10
3.50	9.21	2.42	1.10	0.63	0.41	0.29	0.22	0.17	0.13	0.11	0.15
4.00	11.91	3.13	1.43	0.82	0.53	0.38	0.28	0.22	0.17	0.14	0.18
4.50	14.96	3.92	1.79	1.03	0.67	0.47	0.35	0.27	0.22	0.18	0.20
5.00	18.33	4.81	2.20	1.26	0.82	0.58	0.43	0.33	0.26	0.22	0.25
5.50	22.03	5.78	2.64	1.52	0.99	0.69	0.52	0.40	0.32	0.26	0.28
6.00	26.06	6.84	3.13	1.79	1.17	0.82	0.61	0.47	0.38	0.31	0.33
6.50	30.41	7.98	3.65	2.09	1.36	0.96	0.71	0.55	0.44	0.36	0.37
7.00	35.09	9.21	4.21	2.42	1.57	1.10	0.82	0.63	0.51	0.41	0.42
7.50	40.08	10.52	4.81	2.76	1.79	1.26	0.94	0.72	0.58	0.47	0.50
8.00	45.40	11.91	5.45	3.13	2.03	1.43	1.06	0.82	0.65	0.53	0.56

Panel Radiator Pressure Drops

PRESSURE DROP: SAME END

Radiator Pressure Drop - Feet of Head Per Radiator

Models PR2, PR2F, PR3F



GPM	NUMBER OF TUBES WITH SUPPLY WATER FLOW										PER 1/2" Connection
	1	2	3	4	5	6	7	8	9	10	

LOW PRESSURE TUBE

0.50	0.21	0.05	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01
0.75	0.45	0.12	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
1.00	0.79	0.21	0.09	0.05	0.04	0.02	0.02	0.01	0.01	0.01	0.03
1.50	1.72	0.45	0.21	0.12	0.08	0.05	0.05	0.03	0.03	0.02	0.04
2.00	3.00	0.79	0.36	0.21	0.13	0.09	0.09	0.05	0.05	0.04	0.06
2.50	4.61	1.21	0.55	0.32	0.21	0.15	0.15	0.08	0.08	0.05	0.08
3.00	6.56	1.72	0.79	0.45	0.29	0.21	0.21	0.12	0.12	0.08	0.10
3.50	8.83	2.32	1.06	0.61	0.40	0.28	0.28	0.16	0.16	0.10	0.15
4.00	11.42	3.00	1.37	0.79	0.51	0.36	0.36	0.21	0.21	0.13	0.18
4.50	14.34	3.76	1.72	0.99	0.64	0.45	0.45	0.26	0.26	0.17	0.20
5.00	17.57	4.61	2.11	1.21	0.79	0.55	0.55	0.32	0.32	0.21	0.25
5.50	21.12	5.54	2.53	1.45	0.95	0.67	0.67	0.38	0.38	0.25	0.28
6.00	24.98	6.56	3.00	1.72	1.12	0.79	0.79	0.45	0.45	0.29	0.33
6.50	29.15	7.65	3.50	2.01	1.31	0.92	0.92	0.53	0.53	0.34	0.37
7.00	33.64	8.83	4.04	2.32	1.51	1.06	1.06	0.61	0.61	0.40	0.42
7.50	38.43	10.08	4.61	2.65	1.72	1.21	1.21	0.69	0.69	0.45	0.50
8.00	43.52	11.42	5.22	3.00	1.95	1.37	1.37	0.79	0.79	0.51	0.56

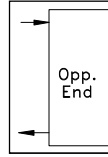
HIGH PRESSURE TUBE

0.50	0.82	0.22	0.10	0.06	0.04	0.03	0.03	0.01	0.01	0.01	0.01
0.75	1.79	0.47	0.22	0.12	0.08	0.06	0.06	0.03	0.03	0.02	0.01
1.00	3.13	0.82	0.38	0.22	0.14	0.10	0.10	0.06	0.06	0.04	0.03
1.50	6.84	1.79	0.82	0.47	0.31	0.22	0.22	0.12	0.12	0.08	0.04
2.00	11.91	3.13	1.43	0.82	0.53	0.38	0.38	0.22	0.22	0.14	0.06
2.50	18.33	4.81	2.20	1.26	0.82	0.58	0.58	0.33	0.33	0.22	0.08
3.00	26.06	6.84	3.13	1.79	1.17	0.82	0.82	0.47	0.47	0.31	0.10
3.50	35.09	9.21	4.21	2.42	1.57	1.10	1.10	0.63	0.63	0.41	0.15
4.00	45.40	11.91	5.45	3.13	2.03	1.43	1.43	0.82	0.82	0.53	0.18
4.50	56.99	14.96	6.84	3.92	2.55	1.79	1.79	1.03	1.03	0.67	0.20
5.00	69.84	18.33	8.38	4.81	3.13	2.20	2.20	1.26	1.26	0.82	0.25
5.50	83.95	22.03	10.07	5.78	3.76	2.64	2.64	1.52	1.52	0.99	0.28
6.00	99.30	26.06	11.91	6.84	4.45	3.13	3.13	1.79	1.79	1.17	0.33
6.50	115.88	30.41	13.91	7.98	5.19	3.65	3.65	2.09	2.09	1.36	0.37
7.00	133.70	35.09	16.04	9.21	5.99	4.21	4.21	2.42	2.42	1.57	0.42
7.50	152.74	40.08	18.33	10.52	6.84	4.81	4.81	2.76	2.76	1.79	0.50
8.00	173.01	45.40	20.76	11.91	7.75	5.45	5.45	3.13	3.13	2.03	0.56

Panel Radiator Pressure Drops

PRESSURE DROP: OPPOSITE END

Radiator Pressure Drop - Feet of Head Per Radiator



Model PRV

GPM	NUMBER OF TUBES WITH SUPPLY WATER FLOW										PER 1/2" Connection
	1	2	3	4	5	6	7	8	9	10	

LOW PRESSURE TUBE

0.50	0.21	0.05	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
0.75	0.45	0.12	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01
1.00	0.79	0.21	0.09	0.05	0.04	0.02	0.02	0.01	0.01	0.01	0.03
1.50	1.72	0.45	0.21	0.12	0.08	0.05	0.04	0.03	0.02	0.02	0.04
2.00	3.00	0.79	0.36	0.21	0.13	0.09	0.07	0.05	0.04	0.04	0.06
2.50	4.61	1.21	0.55	0.32	0.21	0.15	0.11	0.08	0.07	0.05	0.08
3.00	6.56	1.72	0.79	0.45	0.29	0.21	0.15	0.12	0.09	0.08	0.10
3.50	8.83	2.32	1.06	0.61	0.40	0.28	0.21	0.16	0.13	0.10	0.15
4.00	11.42	3.00	1.37	0.79	0.51	0.36	0.27	0.21	0.16	0.13	0.18
4.50	14.34	3.76	1.72	0.99	0.64	0.45	0.34	0.26	0.21	0.17	0.20
5.00	17.57	4.61	2.11	1.21	0.79	0.55	0.41	0.32	0.25	0.21	0.25
5.50	21.12	5.54	2.53	1.45	0.95	0.67	0.49	0.38	0.30	0.25	0.28
6.00	24.98	6.56	3.00	1.72	1.12	0.79	0.58	0.45	0.36	0.29	0.33
6.50	29.15	7.65	3.50	2.01	1.31	0.92	0.68	0.53	0.42	0.34	0.37
7.00	33.64	8.83	4.04	2.32	1.51	1.06	0.79	0.61	0.48	0.40	0.42
7.50	38.43	10.08	4.61	2.65	1.72	1.21	0.90	0.69	0.55	0.45	0.50
8.00	43.52	11.42	5.22	3.00	1.95	1.37	1.02	0.79	0.63	0.51	0.56

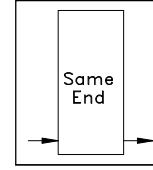
HIGH PRESSURE TUBE

0.50	0.82	0.22	0.10	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.01
0.75	1.79	0.47	0.22	0.12	0.08	0.06	0.04	0.03	0.03	0.02	0.01
1.00	3.13	0.82	0.38	0.22	0.14	0.10	0.07	0.06	0.05	0.04	0.03
1.50	6.84	1.79	0.82	0.47	0.31	0.22	0.16	0.12	0.10	0.08	0.04
2.00	11.91	3.13	1.43	0.82	0.53	0.38	0.28	0.22	0.17	0.14	0.06
2.50	18.33	4.81	2.20	1.26	0.82	0.58	0.43	0.33	0.26	0.22	0.08
3.00	26.06	6.84	3.13	1.79	1.17	0.82	0.61	0.47	0.38	0.31	0.10
3.50	35.09	9.21	4.21	2.42	1.57	1.10	0.82	0.63	0.51	0.41	0.15
4.00	45.40	11.91	5.45	3.13	2.03	1.43	1.06	0.82	0.65	0.53	0.18
4.50	56.99	14.96	6.84	3.92	2.55	1.79	1.33	1.03	0.82	0.67	0.20
5.00	69.84	18.33	8.38	4.81	3.13	2.20	1.63	1.26	1.01	0.82	0.25
5.50	83.95	22.03	10.07	5.78	3.76	2.64	1.96	1.52	1.21	0.99	0.28
6.00	99.30	26.06	11.91	6.84	4.45	3.13	2.32	1.79	1.43	1.17	0.33
6.50	115.88	30.41	13.91	7.98	5.19	3.65	2.71	2.09	1.67	1.36	0.37
7.00	133.70	35.09	16.04	9.21	5.99	4.21	3.13	2.42	1.93	1.57	0.42
7.50	152.74	40.08	18.33	10.52	6.84	4.81	3.57	2.76	2.20	1.79	0.50
8.00	173.01	45.40	20.76	11.91	7.75	5.45	4.05	3.13	2.49	2.03	0.56

Panel Radiator Pressure Drops

PRESSURE DROP: SAME END

Radiator Pressure Drop - Feet of Head Per Radiator



Model PRV

GPM	NUMBER OF TUBES WITH SUPPLY WATER FLOW									PER 1/2" Connection
	1	1	1	2	2	2	3	3	3	

LOW PRESSURE TUBE

0.50	0.21	0.21	0.21	0.05	0.05	0.05	0.02	0.02	0.02	0.01
0.75	0.45	0.45	0.45	0.12	0.12	0.12	0.05	0.05	0.05	0.01
1.00	0.79	0.79	0.79	0.21	0.21	0.21	0.09	0.09	0.09	0.03
1.50	1.72	1.72	1.72	0.45	0.45	0.45	0.21	0.21	0.21	0.04
2.00	3.00	3.00	3.00	0.79	0.79	0.79	0.36	0.36	0.36	0.06
2.50	4.61	4.61	4.61	1.21	1.21	1.21	0.55	0.55	0.55	0.08
3.00	6.56	6.56	6.56	1.72	1.72	1.72	0.79	0.79	0.79	0.10
3.50	8.83	8.83	8.83	2.32	2.32	2.32	1.06	1.06	1.06	0.15
4.00	11.42	11.42	11.42	3.00	3.00	3.00	1.37	1.37	1.37	0.18
4.50	14.34	14.34	14.34	3.76	3.76	3.76	1.72	1.72	1.72	0.20
5.00	17.57	17.57	17.57	4.61	4.61	4.61	2.11	2.11	2.11	0.25
5.50	21.12	21.12	21.12	5.54	5.54	5.54	2.53	2.53	2.53	0.28
6.00	24.98	24.98	24.98	6.56	6.56	6.56	3.00	3.00	3.00	0.33
6.50	29.15	29.15	29.15	7.65	7.65	7.65	3.50	3.50	3.50	0.37
7.00	33.64	33.64	33.64	8.83	8.83	8.83	4.04	4.04	4.04	0.42
7.50	38.43	38.43	38.43	10.08	10.08	10.08	4.61	4.61	4.61	0.50
8.00	43.52	43.52	43.52	11.42	11.42	11.42	5.22	5.22	5.22	0.56

HIGH PRESSURE TUBE

0.50	0.82	0.82	0.82	0.22	0.22	0.22	0.10	0.10	0.10	0.01
0.75	1.79	1.79	1.79	0.47	0.47	0.47	0.22	0.22	0.22	0.01
1.00	3.13	3.13	3.13	0.82	0.82	0.82	0.38	0.38	0.38	0.03
1.50	6.84	6.84	6.84	1.79	1.79	1.79	0.82	0.82	0.82	0.04
2.00	11.91	11.91	11.91	3.13	3.13	3.13	1.43	1.43	1.43	0.06
2.50	18.33	18.33	18.33	4.81	4.81	4.81	2.20	2.20	2.20	0.08
3.00	26.06	26.06	26.06	6.84	6.84	6.84	3.13	3.13	3.13	0.10
3.50	35.09	35.09	35.09	9.21	9.21	9.21	4.21	4.21	4.21	0.15
4.00	45.40	45.40	45.40	11.91	11.91	11.91	5.45	5.45	5.45	0.18
4.50	56.99	56.99	56.99	14.96	14.96	14.96	6.84	6.84	6.84	0.20
5.00	69.84	69.84	69.84	18.33	18.33	18.33	8.38	8.38	8.38	0.25
5.50	83.95	83.95	83.95	22.03	22.03	22.03	10.07	10.07	10.07	0.28
6.00	99.30	99.30	99.30	26.06	26.06	26.06	11.91	11.91	11.91	0.33
6.50	115.88	115.88	115.88	30.41	30.41	30.41	13.91	13.91	13.91	0.37
7.00	133.70	133.70	133.70	35.09	35.09	35.09	16.04	16.04	16.04	0.42
7.50	152.74	152.74	152.74	40.08	40.08	40.08	18.33	18.33	18.33	0.50
8.00	173.01	173.01	173.01	45.40	45.40	45.40	20.76	20.76	20.76	0.56

Curved Wall Applications

PR and PRF panel radiators can be curved for either convex or concave walls. There are a variety of radii, lengths, and deflection criteria required to specify the quantity and types of radiators needed to meet the curvature.

Field Curved & Segmented Radiators

Field curved panel radiators are specifically made for conditions where larger curvatures are found. They are field installed along the wall or window mullions with a simple bracket system and a piping arrangement to match each project.

Minimum radius is 15'-0" on PR (non-finned) units.
Minimum radius is 10'-0" on PRF (finned) units.
Maximum radiator length on PR (non-finned) is 20'-0".
Maximum radiator length on PRF (finned radiators) is 16'-0".
Minimum radius is 15'-0".

Minimum radiator length is 15'-0" long.
The longer the length and larger the radius, the better.
Only single header panel radiators can be field curved; dual header panel radiators cannot be curved.
A single radiator can be curved to a maximum angle of 90°.
Perforated grilles are not available.

FACTORY CURVED & SEGMENTED RADIATORS

Factory curved & segmented panel radiators are used for smaller curvatures. These radiators are specially manufactured by highly skilled craftsmen and may be easily installed along the wall with a simple bracket system and a piping arrangement to match each project.



The maximum angle that can be segmented is 135°.
Dual panel radiators cannot be segmented.
Minimum radius is 5'-0" on PR (non-finned) units.
Minimum radius is 10'-0" on PRF (finned) units.
Maximum radiator length on PR (non-finned) is 15'-0" to 20'-0", depending on the number of panels high.
Maximum radiator length on PRF (finned radiators) is 15'-0" to 20'-0", depending on the number of panels high.
The longer the length and larger the radius, the better.
The maximum amount of deflection (the overall depth from the front to the rear of the panel assembly) is 24".
Perforated grilles are not available.

Mounting Systems

Wall mounting is the easiest way to install curved or segmented panel radiators. These radiators are specially made with the proper bracketing required for a smooth-looking installation. It is recommended that wall blocking and lockdown brackets for curved radiators be used to ensure secure mounting. Segmented panel radiators are easily wall mounted with standard brackets, included with each order.

Floor mounting along a curved wall is an alternative way to install panel radiators. Floor mount brackets are specially manufactured to match the radiators in both quality workmanship and color. Floor mounting is a cost-effective way to install radiators along curved glass walls or other applications where wall mounting is not an option. Also note that for field or factory curved PR units come with mounting clips welded at intervals along the back of the unit (no continuous mounting), so the installing contractor must put a solid backing in the wall where the mounting brackets need to go to line up with the clips welded to the radiator. The more experienced contractors install a continuous sheet metal strip screwed to the wall studs before the sheet rock is applied for this purpose.

The PRF radiators have the fins along the back, so the wall brackets can be placed on the studs and attach to the fins.

For further details on these specialty radiators, contact your local sales representative today.

See related Concave and Convex work sheets.

Panel Radiator Assembly Weights Per Foot

Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft
PR-1	1.3	PR2-1	2.6	PRF-1	1.9	PR2F-1	3.6	PR3F-1	6.0	PRC-1	1.3	PRV-1	1.3
PR-2	2.4	PR2-2	4.8	PRF-2	3.5	PR2F-2	6.9	PR3F-2	10.5	PRC-2	2.4	PRV-2	2.4
PR-3	3.5	PR2-3	7.0	PRF-3	5.1	PR2F-3	10.1	PR3F-3	15.3	PRC-3	3.5	PRV-3	3.5
PR-4	4.6	PR2-4	9.2	PRF-4	7.1	PR2F-4	13.9	PR3F-4	21.3	PRC-4	4.6	PRV-4	4.6
PR-5	5.7	PR2-5	11.4	PRF-5	9.9	PR2F-5	16.8	PR3F-5	29.7	PRC-5	5.7	PRV-5	5.7
PR-6	6.8	PR2-6	13.6	PRF-6	11.7	PR2F-6	20.0	PR3F-6	35.1	PRC-6	6.8	PRV-6	6.8
PR-7	8.0	PR2-7	16.0	PRF-7	13.8	PR2F-7	23.5	PR3F-7	41.4	PRC-7	8.0	PRV-7	8.0
PR-8	9.1	PR2-8	18.2	PRF-8	16.4	PR2F-8	27.6	PR3F-8	49.2	PRC-8	9.1	PRV-8	9.1
PR-9	10.2	PR2-9	20.4	PRF-9	17.5	PR2F-9	29.9	PR3F-9	52.5	PRC-9	10.2	PRV-9	10.2
PR-10	11.3	PR2-10	22.6	PRF-10	18.6	PR2F-10	32.1	PR3F-10	55.8	PRC-10	11.3	PRV-10	11.3

Weights listed above are for LOW PRESSURE PANEL RADIATOR ASSEMBLIES

Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft	Model	Lbs /Ft
PR-1	1.5	PR2-1	3.0	PRF-1	2.2	PR2F-1	4.1	PR3F-1	6.9	PRC-1	1.5	PRV-1	1.5
PR-2	2.8	PR2-2	5.5	PRF-2	4.0	PR2F-2	7.9	PR3F-2	12.1	PRC-2	2.8	PRV-2	2.8
PR-3	4.0	PR2-3	8.1	PRF-3	5.9	PR2F-3	11.6	PR3F-3	17.6	PRC-3	4.0	PRV-3	4.0
PR-4	5.3	PR2-4	10.6	PRF-4	8.2	PR2F-4	16.0	PR3F-4	24.5	PRC-4	5.3	PRV-4	5.3
PR-5	6.6	PR2-5	13.1	PRF-5	11.4	PR2F-5	19.3	PR3F-5	34.2	PRC-5	6.6	PRV-5	6.6
PR-6	7.8	PR2-6	15.6	PRF-6	13.5	PR2F-6	23.0	PR3F-6	40.4	PRC-6	7.8	PRV-6	7.8
PR-7	9.2	PR2-7	18.4	PRF-7	15.9	PR2F-7	27.0	PR3F-7	47.6	PRC-7	9.2	PRV-7	9.2
PR-8	10.5	PR2-8	20.9	PRF-8	18.9	PR2F-8	31.7	PR3F-8	56.6	PRC-8	10.5	PRV-8	10.5
PR-9	11.7	PR2-9	23.5	PRF-9	20.1	PR2F-9	34.4	PR3F-9	60.4	PRC-9	11.7	PRV-9	11.7
PR-10	13.0	PR2-10	26.0	PRF-10	21.4	PR2F-10	36.9	PR3F-10	64.2	PRC-10	13.0	PRV-10	13.0

Weights listed above are for HIGH PRESSURE PANEL RADIATOR ASSEMBLIES



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