

Technical Data Sheet



Radiant Heating & Cooling Panels

Emission Charts

TEMPERATURE		TOTAL WATTS PER SQUARE METRE				
Mean water or steam °C	Ambient °C	FLOOR	WALL(mm)			CEILING Panel/Perimeter/Strip
			<300	<600	>600	
35	14	165	205	190	180	150
	16	145	180	170	160	135
	18	130	160	155	145	120
	20	110	140	135	125	105
	22	95	120	115	110	90
40	14	210	260	245	230	190
	16	190	240	225	215	175
	18	175	215	205	195	160
	20	160	195	185	175	145
	22	140	175	165	160	130
45	14	260	320	305	285	235
	16	240	300	285	265	220
	18	220	275	260	245	200
	20	205	255	240	225	185
	22	185	235	220	210	175
50	14	310	385	365	340	280
	16	295	360	345	320	265
	18	275	340	320	300	250
	20	255	315	300	285	230
	22	235	295	280	265	215
55	14	365	450	425	400	325
	16	345	425	405	380	310
	18	325	405	385	360	295
	20	310	380	365	340	280
	22	285	355	340	320	260
60	14	425	520	490	460	375
	16	400	495	470	440	360
	18	380	470	450	420	345
	20	360	445	425	400	325
	22	340	425	405	380	310
65	14	480	590	560	525	425
	16	460	565	535	500	410
	18	440	540	515	480	395
	20	420	515	490	460	380
	22	400	490	470	440	360
70	14	540	660	625	585	480
	16	520	635	605	565	460
	18	495	610	580	545	445
	20	475	590	560	525	430
	22	455	565	540	505	415
75	14	600	735	700	655	530
	16	580	710	675	635	515
	18	560	685	655	610	500
	20	535	660	630	590	485
	22	515	635	605	570	465
76.67 (170°F)	12.8(55°F)	635	775	735	690	560
	15.6(60°F)	605	740	705	660	535
	18.3(65°F)	575	710	675	630	515
	21.1(70°F)	545	675	640	600	495
80	14	660	810	770	720	585
	16	640	785	745	700	570
	18	620	765	725	680	555
	20	600	740	705	660	540
	22	575	715	680	640	525
85	14	720	890	845	795	645
	16	705	865	825	770	630
	18	685	840	800	750	615
	20	660	815	775	730	595
	22	640	790	755	710	580
90	14		975	925	865	705
	16		950	900	845	690
	18		925	875	825	675
	20		895	850	800	655
	22		870	830	780	640
95	14		1060	1000	940	765
	16		1030	980	920	750
	18		1010	960	895	735
	20		980	930	875	715
	22		955	910	855	700
100	14		1140	1090	1020	830
	16		1120	1060	995	815
	18		1080	1040	975	795
	20		1070	1010	950	780
	22		1040	990	930	765
105	14		1230	1170	1100	895
	16		1205	1150	1070	880
	18		1180	1120	1050	860
	20		1150	1100	1030	845
	22		1220	1070	1010	830
110	14		1320	1255	1180	960
	16		1290	1230	1155	945
	18		1270	1210	1130	930
	20		1240	1180	1110	915
	22		1220	1160	1090	895
115	14		1410	1340	1260	1030
	16		1390	1320	1240	1010
	18		1350	1290	1215	995
	20		1330	1270	1190	980
	22		1310	1245	1170	965
120	14		1510	1430	1345	1100
	16		1480	1410	1320	1085
	18		1460	1390	1300	1070
	20		1430	1360	1280	1050
	22		1400	1335	1255	1030
125	14		1600	1530	1430	1175
	16		1580	1500	1410	1160
	18		1550	1480	1390	1140
	20		1530	1450	1370	1125
	22		1500	1430	1340	1110
130	14		1710	1620	1520	1250
	16		1680	1600	1500	1230
	18		1640	1560	1470	1210
	20		1620	1550	1450	1200
	22		1600	1520	1430	1180
135	14		1790	1720	1610	1325
	16		1780	1690	1590	1310
	18		1750	1670	1570	1290
	20		1720	1640	1540	1280
	22		1700	1620	1520	1260

All outputs to the nearest 5 W/m².

Panel emissions are based upon turbulent water flowing through tubes.

Floor Panel emissions are based on stainless steel face plates with a coarse grain matt polish, the emissivity factor being taken as 0.5

Ceiling and Wall Panel emissions are based upon surfaces with an emissivity factor of 0.85. However, various published data indicates that the emissivity of a painted surface is 0.9 – 0.95 and therefore, after due consideration of the surface, the total emissions may be increased by 3 - 6%

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