



DONOHUE HEATING SERVICES
PREMIUM DATA SHEETS



MULTI COLUMN RADIATORS

Range Overview

Product Description

Merriott Multicolumns offer outputs ranging from 24 watts to 542 watts per section at $\Delta T 50^{\circ}\text{C}$. Sizing and output charts are included in this brochure.

The heights available range from 300mm to 3000mm for all types of Multicolumns.

Radiators are joined together using nipples. Please note that the end pieces of a Multicolumn are 13mm in length each, therefore will add 26mm to the overall length of the radiator.

Outputs

All Merriott Multicolumns radiators have been manufactured and tested in accordance with EN442.

Pitch Plus

Also available in the Merriott range is the Pitch Plus, a multicolumn radiator manufactured specifically for environments where hygiene is a top priority. Its extended 66mm pitch makes it easy to clean between the columns, preventing the build-up of dust and bacteria.

Finish

Every Merriott Multicolumn radiator undergoes an intensive pre-treatment process to protect against rust. In pre-treatment, the radiators go through a series of washes which degrease the steel and an iron phosphate rinse passivates the surface prior to painting. The primer coat is applied by immersion in an electrophoretic bath to give total coverage of the bare steel and maximum corrosion protection. The durable topcoat (epoxy polyester powder) is electrostatically applied and stove enamel baked at 200°C . The process is monitored to ensure continuous achievement of optimum adhesion, opacity and gloss levels.

Colour

Our standard finish is semi-gloss RAL 9016 (White) in epoxy polyester powder. An extensive range of other RAL and BS colours are available, at a surcharge, on request.

Packaging

The entire surface of the radiator, including all 4 corners, is protected by cardboard box ends and packed in shrink wrapped polythene.

Connections

Standard connections are $4 \times \frac{1}{2}"$ (15mm) BSP connections. These can be used as BOE, TOE, TBOE and TBSE connection configurations. $\frac{1}{4}"$, $\frac{3}{8}"$, $\frac{3}{4}"$ and $1 \frac{1}{4}"$ connections are available on request.

Note: Flow and return positions must be specified at time of ordering.

Testing

Merriott Multicolumns have been tested at 13 Bar with a maximum working pressure of 10 Bar.

Feet

The Multicolumn can be supplied with loose, double loose or design feet at an additional cost.

Dimensional Tolerances

Dimensional Tolerances are in accordance with EN442.

Materials

Multicolumn radiators are made from 1.2mm thick steel, forming tubes of a 25mm diameter.

Warranty

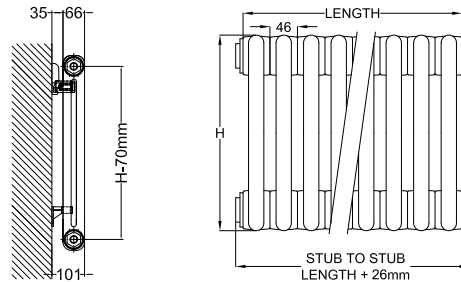
Merriott radiators are guaranteed for a period of 10 years from date of purchase in respect of defective materials and workmanship. The system should be designed in accordance with the British Standard Code of Practice for Water Based Heating Systems in Buildings **BS EN 12828:2012+A1:2014** and **BS EN 12831: 2003**. The installation and commissioning of the system should comply with **BS EN 14336:2004**. On completion of the installation the system should be properly flushed and filled in accordance with the British Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems **BS 7593:2006**, Part L of Building Regulations and Good Practice Guidance for Scotland. Merriott strongly recommend the use of corrosion inhibitor for all applications. Failure to observe these standards may invalidate the manufacturer's warranty.

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

2 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.4	1.6	1.7	1.9	2.1	2.3	2.4
WEIGHT (KG) (PER ELEMENT)		0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.0	4.3
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	48	62	76	90	110	116	130	144	172	212	256	284	314	360	408	436
3	164	72	93	114	135	165	174	195	216	258	318	384	426	471	540	612	654
4	210	96	124	152	180	220	232	260	288	344	424	512	568	628	720	816	872
5	256	120	155	190	225	275	290	325	360	430	530	640	710	785	900	1020	1090
6	302	144	186	228	270	330	348	390	432	516	636	768	852	942	1080	1224	1308
7	348	168	217	266	315	385	406	455	504	602	742	896	994	1099	1260	1428	1526
8	394	192	248	304	360	440	464	520	576	688	848	1024	1136	1256	1440	1632	1744
9	440	216	279	342	405	495	522	585	648	774	954	1152	1278	1413	1620	1836	1962
10	486	240	310	380	450	550	580	650	720	860	1060	1280	1420	1570	1800	2040	2180
11	532	264	341	418	495	605	638	715	792	946	1166	1408	1562	1727	1980	2244	2398
12	578	288	372	456	540	660	696	780	864	1032	1272	1536	1704	1884	2160	2448	2616
13	624	312	403	494	585	715	754	845	936	1118	1378	1664	1846	2041	2340	2652	2834
14	670	336	434	532	630	770	812	910	1008	1204	1484	1792	1988	2198	2520	2856	3052
15	716	360	465	570	675	825	870	975	1080	1290	1590	1920	2130	2355	2700	3060	3270
16	762	384	496	608	720	880	928	1040	1152	1376	1696	2048	2272	2512	2880	3264	3488
17	808	408	527	646	765	935	986	1105	1224	1462	1802	2176	2414	2669	3060	3468	3706
18	854	432	558	684	810	990	1044	1170	1296	1548	1908	2304	2556	2826	3240	3672	3924
19	900	456	589	722	855	1045	1102	1235	1368	1634	2014	2432	2698	2983	3420	3876	4142
20	946	480	620	760	900	1100	1160	1300	1440	1720	2120	2560	2840	3140	3600	4080	4360
21	992	504	651	798	945	1155	1218	1365	1512	1806	2226	2688	2982	3297	3780	4284	4578
22	1038	528	682	836	990	1210	1276	1430	1584	1892	2332	2816	3124	3454	3960	4488	4796
23	1084	552	713	874	1035	1265	1334	1495	1656	1978	2438	2944	3266	3611	4140	4692	5014
24	1130	576	744	912	1080	1320	1392	1560	1728	2064	2544	3072	3408	3768	4320	4896	5232
25	1176	600	775	950	1125	1375	1450	1625	1800	2150	2650	3200	3550	3925	4500	5100	5450
26	1222	624	806	988	1170	1430	1508	1690	1872	2236	2756	3328	3692	4082	4680	5304	5668
27	1268	648	837	1026	1215	1485	1566	1755	1944	2322	2862	3456	3834	4239	4860	5508	5886
28	1314	672	868	1064	1260	1540	1624	1820	2016	2408	2968	3584	3976	4396	5040	5712	6104
29	1360	696	899	1102	1305	1595	1682	1885	2088	2494	3074	3712	4118	4553	5220	5916	6322
30	1406	720	930	1140	1350	1650	1740	1950	2160	2580	3180	3840	4260	4710	5400	6120	6540
31	1452	744	961	1178	1395	1705	1798	2015	2232	2666	3286	3968	4402	4867	5580	6324	6758
32	1498	768	992	1216	1440	1760	1856	2080	2304	2752	3392	4096	4544	5024	5760	6528	6976
33	1544	792	1023	1254	1485	1815	1914	2145	2376	2838	3498	4224	4686	5181	5940	6732	7194
34	1590	816	1054	1292	1530	1870	1972	2210	2448	2924	3604	4352	4828	5338	6120	6936	7412
35	1636	840	1085	1330	1575	1925	2030	2275	2520	3010	3710	4480	4970	5495	6300	7140	7630
36	1682	864	1116	1368	1620	1980	2088	2340	2592	3096	3816	4608	5112	5652	6480	7344	7848

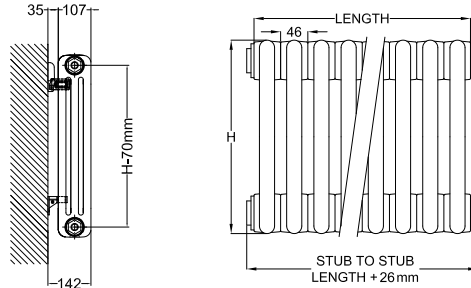
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

3 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	2.0	2.3	2.6	2.8	3.2	3.6	3.8
WEIGHT (KG) (PER ELEMENT)		0.7	0.9	1.2	1.4	1.7	1.8	2.1	2.3	2.7	3.3	4.0	4.4	4.8	5.3	6.0	6.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	66	84	104	122	150	158	176	194	232	288	348	388	428	492	558	604
3	164	99	126	156	183	225	237	264	291	348	432	522	582	642	738	837	906
4	210	132	168	208	244	300	316	352	388	464	576	696	776	856	984	1116	1208
5	256	165	210	260	305	375	395	440	485	580	720	870	970	1070	1230	1395	1510
6	302	198	252	312	366	450	474	528	582	696	864	1044	1164	1284	1476	1674	1812
7	348	231	294	364	427	525	553	616	679	812	1008	1218	1358	1498	1722	1953	2114
8	394	264	336	416	488	600	632	704	776	928	1152	1392	1552	1712	1968	2232	2416
9	440	297	378	468	549	675	711	792	873	1044	1296	1566	1746	1926	2214	2511	2718
10	486	330	420	520	610	750	790	880	970	1160	1440	1740	1940	2140	2460	2790	3020
11	532	363	462	572	671	825	869	968	1067	1276	1584	1914	2134	2354	2706	3069	3322
12	578	396	504	624	732	900	948	1056	1164	1392	1728	2088	2328	2568	2952	3348	3624
13	624	429	546	676	793	975	1027	1144	1261	1508	1872	2262	2522	2782	3198	3627	3926
14	670	462	588	728	854	1050	1106	1232	1358	1624	2016	2436	2716	2996	3444	3906	4228
15	716	495	630	780	915	1125	1185	1320	1455	1740	2160	2610	2910	3210	3690	4185	4530
16	762	528	672	832	976	1200	1264	1408	1552	1856	2304	2784	3104	3424	3936	4464	4832
17	808	561	714	884	1037	1275	1343	1496	1649	1972	2448	2958	3298	3638	4182	4743	5134
18	854	594	756	936	1098	1350	1422	1584	1746	2088	2592	3132	3492	3852	4428	5022	5436
19	900	627	798	988	1159	1425	1501	1672	1843	2204	2736	3306	3686	4066	4674	5301	5738
20	946	660	840	1040	1220	1500	1580	1760	1940	2320	2880	3480	3880	4280	4920	5580	6040
21	992	693	882	1092	1281	1575	1659	1848	2037	2436	3024	3654	4074	4494	5166	5859	6342
22	1038	726	924	1144	1342	1650	1738	1936	2134	2552	3168	3828	4268	4708	5412	6138	6644
23	1084	759	966	1196	1403	1725	1817	2024	2231	2668	3312	4002	4462	4922	5658	6417	6946
24	1130	792	1008	1248	1464	1800	1896	2112	2328	2784	3456	4176	4656	5136	5904	6696	7248
25	1176	825	1050	1300	1525	1875	1975	2200	2425	2900	3600	4350	4850	5350	6150	6975	7550
26	1222	858	1092	1352	1586	1950	2054	2288	2522	3016	3744	4524	5044	5564	6396	7254	7852
27	1268	891	1134	1404	1647	2025	2133	2376	2619	3132	3888	4698	5238	5778	6642	7533	8154
28	1314	924	1176	1456	1708	2100	2212	2464	2716	3248	4032	4872	5432	5992	6888	7812	8456
29	1360	957	1218	1508	1769	2175	2291	2552	2813	3364	4176	5046	5626	6206	7134	8091	8758
30	1406	990	1260	1560	1830	2250	2370	2640	2910	3480	4320	5220	5820	6420	7380	8370	9060
31	1452	1023	1302	1612	1891	2325	2449	2728	3007	3596	4464	5394	6014	6634	7626	8649	9362
32	1498	1056	1344	1664	1952	2400	2528	2816	3104	3712	4608	5568	6208	6848	7872	8928	9664
33	1544	1089	1386	1716	2013	2475	2607	2904	3201	3828	4752	5742	6402	7062	8118	9207	9966
34	1590	1122	1428	1768	2074	2550	2686	2992	3298	3944	4896	5916	6596	7276	8364	9486	10268
35	1636	1155	1470	1820	2135	2625	2765	3080	3395	4060	5040	6090	6790	7490	8610	9765	10570
36	1682	1188	1512	1872	2196	2700	2844	3168	3492	4176	5184	6264	6984	7704	8856	10044	10872

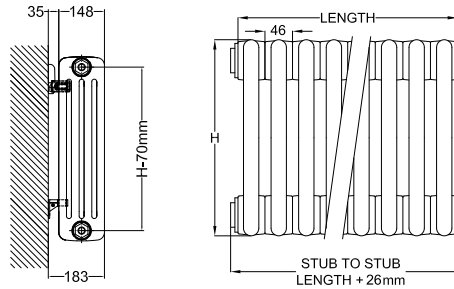
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

4 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.8	0.9	1.1	1.2	1.5	1.6	1.7	1.9	2.2	2.7	3.1	3.4	3.8	4.2	4.7	5.0
WEIGHT (KG) (PER ELEMENT)		0.9	1.2	1.5	1.8	2.2	2.4	2.6	2.9	3.5	4.4	5.3	5.8	6.3	7.1	7.8	8.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	84	112	136	162	200	212	238	264	314	388	464	516	568	644	724	776
3	164	126	168	204	243	300	318	357	396	471	582	696	774	852	966	1086	1164
4	210	168	224	272	324	400	424	476	528	628	776	928	1032	1136	1288	1448	1552
5	256	210	280	340	405	500	530	595	660	785	970	1160	1290	1420	1610	1810	1940
6	302	252	336	408	486	600	636	714	792	942	1164	1392	1548	1704	1932	2172	2328
7	348	294	392	476	567	700	742	833	924	1099	1358	1624	1806	1988	2254	2534	2716
8	394	336	448	544	648	800	848	952	1056	1256	1552	1856	2064	2272	2576	2896	3104
9	440	378	504	612	729	900	954	1071	1188	1413	1746	2088	2322	2556	2898	3258	3492
10	486	420	560	680	810	1000	1060	1190	1320	1570	1940	2320	2580	2840	3220	3620	3880
11	532	462	616	748	891	1100	1166	1309	1452	1727	2134	2552	2838	3124	3542	3982	4268
12	578	504	672	816	972	1200	1272	1428	1584	1884	2328	2784	3096	3408	3864	4344	4656
13	624	546	728	884	1053	1300	1378	1547	1716	2041	2522	3016	3354	3692	4186	4706	5044
14	670	588	784	952	1134	1400	1484	1666	1848	2198	2716	3248	3612	3976	4508	5068	5432
15	716	630	840	1020	1215	1500	1590	1785	1980	2355	2910	3480	3870	4260	4830	5430	5820
16	762	672	896	1088	1296	1600	1696	1904	2112	2512	3104	3712	4128	4544	5152	5792	6208
17	808	714	952	1156	1377	1700	1802	2023	2244	2669	3298	3944	4386	4828	5474	6154	6596
18	854	756	1008	1224	1458	1800	1908	2142	2376	2826	3492	4176	4644	5112	5796	6516	6984
19	900	798	1064	1292	1539	1900	2014	2261	2508	2983	3686	4408	4902	5396	6118	6878	7372
20	946	840	1120	1360	1620	2000	2120	2380	2640	3140	3880	4640	5160	5680	6440	7240	7760
21	992	882	1176	1428	1701	2100	2226	2499	2772	3297	4074	4872	5418	5964	6762	7602	8148
22	1038	924	1232	1496	1782	2200	2332	2618	2904	3454	4268	5104	5676	6248	7084	7964	8536
23	1084	966	1288	1564	1863	2300	2438	2737	3036	3611	4462	5336	5934	6532	7406	8326	8924
24	1130	1008	1344	1632	1944	2400	2544	2856	3168	3768	4656	5568	6192	6816	7728	8688	9312
25	1176	1050	1400	1700	2025	2500	2650	2975	3300	3925	4850	5800	6450	7100	8050	9050	9700
26	1222	1092	1456	1768	2106	2600	2756	3094	3432	4082	5044	6032	6708	7384	8372	9412	10088
27	1268	1134	1512	1836	2187	2700	2862	3213	3564	4239	5238	6264	6966	7668	8694	9774	10476
28	1314	1176	1568	1904	2268	2800	2968	3332	3696	4396	5432	6496	7224	7952	9016	10136	10864
29	1360	1218	1624	1972	2349	2900	3074	3451	3828	4553	5626	6728	7482	8236	9338	10498	11252
30	1406	1260	1680	2040	2430	3000	3180	3570	3960	4710	5820	6960	7740	8520	9660	10860	11640
31	1452	1302	1736	2108	2511	3100	3286	3689	4092	4867	6014	7192	7998	8804	9982	11222	12028
32	1498	1344	1792	2176	2592	3200	3392	3808	4224	5024	6208	7424	8256	9088	10304	11584	12416
33	1544	1386	1848	2244	2673	3300	3498	3927	4356	5181	6402	7656	8514	9372	10626	11946	12804
34	1590	1428	1904	2312	2754	3400	3604	4046	4488	5338	6596	7888	8772	9656	10948	12308	13192
35	1636	1470	1960	2380	2835	3500	3710	4165	4620	5495	6790	8120	9030	9940	11270	12670	13580
36	1682	1512	2016	2448	2916	3600	3816	4284	4752	5652	6984	8352	9288	10224	11592	13032	13968

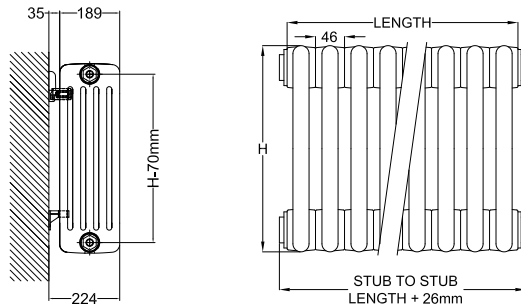
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

5 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.7	3.3	3.9	4.3	4.7	5.3	5.9	6.2
WEIGHT (KG) (PER ELEMENT)		1.2	1.6	1.9	2.3	2.8	3.1	3.3	3.7	4.4	5.5	6.5	7.2	7.9	9.0	10.1	10.8
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	104	134	164	194	238	252	282	310	370	456	546	606	666	760	854	918
3	164	156	201	246	291	357	378	423	465	555	684	819	909	999	1140	1281	1377
4	210	208	268	328	388	476	504	564	620	740	912	1092	1212	1332	1520	1708	1836
5	256	260	335	410	485	595	630	705	775	925	1140	1365	1515	1665	1900	2135	2295
6	302	312	402	492	582	714	756	846	930	1110	1368	1638	1818	1998	2280	2562	2754
7	348	364	469	574	679	833	882	987	1085	1295	1596	1911	2121	2331	2660	2989	3213
8	394	416	536	656	776	952	1008	1128	1240	1480	1824	2184	2424	2664	3040	3416	3672
9	440	468	603	738	873	1071	1134	1269	1395	1665	2052	2457	2727	2997	3420	3843	4131
10	486	520	670	820	970	1190	1260	1410	1550	1850	2280	2730	3030	3330	3800	4270	4590
11	532	572	737	902	1067	1309	1386	1551	1705	2035	2508	3003	3333	3663	4180	4697	5049
12	578	624	804	984	1164	1428	1512	1692	1860	2220	2736	3276	3636	3996	4560	5124	5508
13	624	676	871	1066	1261	1547	1638	1833	2015	2405	2964	3549	3939	4329	4940	5551	5967
14	670	728	938	1148	1358	1666	1764	1974	2170	2590	3192	3822	4242	4662	5320	5978	6426
15	716	780	1005	1230	1455	1785	1890	2115	2325	2775	3420	4095	4545	4995	5700	6405	6885
16	762	832	1072	1312	1552	1904	2016	2256	2480	2960	3648	4368	4848	5328	6080	6832	7344
17	808	884	1139	1394	1649	2023	2142	2397	2635	3145	3876	4641	5151	5661	6460	7259	7803
18	854	936	1206	1476	1746	2142	2268	2538	2790	3330	4104	4914	5454	5994	6840	7686	8262
19	900	988	1273	1558	1843	2261	2394	2679	2945	3515	4332	5187	5757	6327	7220	8113	8721
20	946	1040	1340	1640	1940	2380	2520	2820	3100	3700	4560	5460	6060	6660	7600	8540	9180
21	992	1092	1407	1722	2037	2499	2646	2961	3255	3885	4788	5733	6363	6993	7980	8967	9639
22	1038	1144	1474	1804	2134	2618	2772	3102	3410	4070	5016	6006	6666	7326	8360	9394	10098
23	1084	1196	1541	1886	2231	2737	2898	3243	3565	4255	5244	6279	6969	7659	8740	9821	10557
24	1130	1248	1608	1968	2328	2856	3024	3384	3720	4440	5472	6552	7272	7992	9120	10248	11016
25	1176	1300	1675	2050	2425	2975	3150	3525	3875	4625	5700	6825	7575	8325	9500	10675	11475
26	1222	1352	1742	2132	2522	3094	3276	3666	4030	4810	5928	7098	7878	8658	9880	11102	11934
27	1268	1404	1809	2214	2619	3213	3402	3807	4185	4995	6156	7371	8181	8991	10260	11529	12393
28	1314	1456	1876	2296	2716	3332	3528	3948	4340	5180	6384	7644	8484	9324	10640	11956	12852
29	1360	1508	1943	2378	2813	3451	3654	4089	4495	5365	6612	7917	8787	9657	11020	12383	13311
30	1406	1560	2010	2460	2910	3570	3780	4230	4650	5550	6840	8190	9090	9990	11400	12810	13770
31	1452	1612	2077	2542	3007	3689	3906	4371	4805	5735	7068	8463	9393	10323	11780	13237	14229
32	1498	1664	2144	2624	3104	3808	4032	4512	4960	5920	7296	8736	9696	10656	12160	13664	14688
33	1544	1716	2211	2706	3201	3927	4158	4653	5115	6105	7524	9009	9999	10989	12540	14091	15147
34	1590	1768	2278	2788	3298	4046	4284	4794	5270	6290	7752	9282	10302	11322	12920	14518	15606
35	1636	1820	2345	2870	3395	4165	4410	4935	5425	6475	7980	9555	10605	11655	13300	14945	16065
36	1682	1872	2412	2952	3492	4284	4536	5076	5580	6660	8208	9828	10908	11988	13680	15372	16524

Greyed out sizes indicate weight of over 100kg

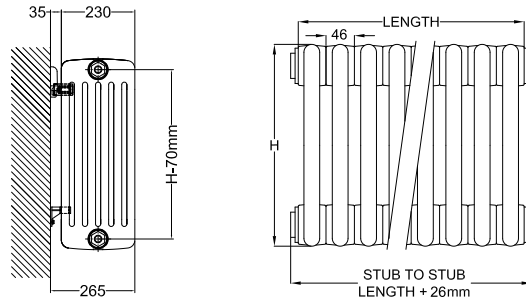
06/

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

6 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.1	1.3	1.6	1.8	2.2	2.3	2.5	2.8	3.3	4.0	4.7	5.2	5.7	6.4	7.2	7.7
WEIGHT (KG) (PER ELEMENT)		1.5	1.9	2.3	2.7	3.4	3.8	4.0	4.4	5.2	6.5	7.7	8.6	9.5	10.8	12.1	13.3
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	124	162	198	236	288	306	342	378	448	552	658	728	798	904	1012	1084
3	164	186	243	297	354	432	459	513	567	672	828	987	1092	1197	1356	1518	1626
4	210	248	324	396	472	576	612	684	756	896	1104	1316	1456	1596	1808	2024	2168
5	256	310	405	495	590	720	765	855	945	1120	1380	1645	1820	1995	2260	2530	2710
6	302	372	486	594	708	864	918	1026	1134	1344	1656	1974	2184	2394	2712	3036	3252
7	348	434	567	693	826	1008	1071	1197	1323	1568	1932	2303	2548	2793	3164	3542	3794
8	394	496	648	792	944	1152	1224	1368	1512	1792	2208	2632	2912	3192	3616	4048	4336
9	440	558	729	891	1062	1296	1377	1539	1701	2016	2484	2961	3276	3591	4068	4554	4878
10	486	620	810	990	1180	1440	1530	1710	1890	2240	2760	3290	3640	3990	4520	5060	5420
11	532	682	891	1089	1298	1584	1683	1881	2079	2464	3036	3619	4004	4389	4972	5566	5962
12	578	744	972	1188	1416	1728	1836	2052	2268	2688	3312	3948	4368	4788	5424	6072	6504
13	624	806	1053	1287	1534	1872	1989	2223	2457	2912	3588	4277	4732	5187	5876	6578	7046
14	670	868	1134	1386	1652	2016	2142	2394	2646	3136	3864	4606	5096	5586	6328	7084	7588
15	716	930	1215	1485	1770	2160	2295	2565	2835	3360	4140	4935	5460	5985	6780	7590	8130
16	762	992	1296	1584	1888	2304	2448	2736	3024	3584	4416	5264	5824	6384	7232	8096	8672
17	808	1054	1377	1683	2006	2448	2601	2907	3213	3808	4692	5593	6188	6783	7684	8602	9214
18	854	1116	1458	1782	2124	2592	2754	3078	3402	4032	4968	5922	6552	7182	8136	9108	9756
19	900	1178	1539	1881	2242	2736	2907	3249	3591	4256	5244	6251	6916	7581	8588	9614	10298
20	946	1240	1620	1980	2360	2880	3060	3420	3780	4480	5520	6580	7280	7980	9040	10120	10840
21	992	1302	1701	2079	2478	3024	3213	3591	3969	4704	5796	6909	7644	8379	9492	10626	11382
22	1038	1364	1782	2178	2596	3168	3366	3762	4158	4928	6072	7238	8008	8778	9944	11132	11924
23	1084	1426	1863	2277	2714	3312	3519	3933	4347	5152	6348	7567	8372	9177	10396	11638	12466
24	1130	1488	1944	2376	2832	3456	3672	4104	4536	5376	6624	7896	8736	9576	10848	12144	13008
25	1176	1550	2025	2475	2950	3600	3825	4275	4725	5600	6900	8225	9100	9975	11300	12650	13550
26	1222	1612	2106	2574	3068	3744	3978	4446	4914	5824	7176	8554	9464	10374	11752	13156	14092
27	1268	1674	2187	2673	3186	3888	4131	4617	5103	6048	7452	8883	9828	10773	12204	13662	14634
28	1314	1736	2268	2772	3304	4032	4284	4788	5292	6272	7728	9212	10192	11172	12656	14168	15176
29	1360	1798	2349	2871	3422	4176	4437	4959	5481	6496	8004	9541	10556	11571	13108	14674	15718
30	1406	1860	2430	2970	3540	4320	4590	5130	5670	6720	8280	9870	10920	11970	13560	15180	16260
31	1452	1922	2511	3069	3658	4464	4743	5301	5859	6944	8556	10199	11284	12369	14012	15686	16802
32	1498	1984	2592	3168	3776	4608	4896	5472	6048	7168	8832	10528	11648	12768	14464	16192	17344
33	1544	2046	2673	3267	3894	4752	5049	5643	6237	7392	9108	10857	12012	13167	14916	16698	17886
34	1590	2108	2754	3366	4012	4896	5202	5814	6426	7616	9384	11186	12376	13566	15368	17204	18428
35	1636	2170	2835	3465	4130	5040	5355	5985	6615	7840	9660	11515	12740	13965	15820	17710	18970
36	1682	2232	2916	3564	4248	5184	5508	6156	6804	8064	9936	11844	13104	14364	16272	18216	19512

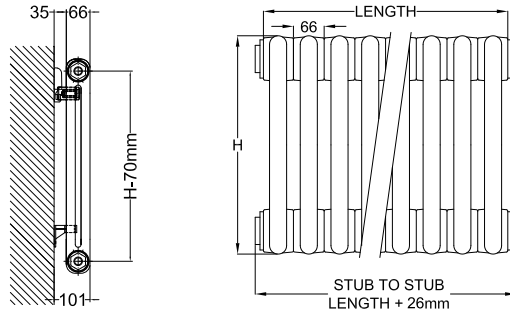
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

2 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.5	1.7	1.8	2.1	2.2	2.4	2.5
WEIGHT (KG) (PER ELEMENT)		0.6	0.7	0.9	1.0	1.2	1.2	1.5	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.4
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	54	68	82	96	118	126	142	158	190	238	288	324	360	414	470	506
3	164	81	102	123	144	177	189	213	237	285	357	432	486	540	621	705	759
4	210	108	136	164	192	236	252	284	316	380	476	576	648	720	828	940	1012
5	256	135	170	205	240	295	315	355	395	475	595	720	810	900	1035	1175	1265
6	302	162	204	246	288	354	378	426	474	570	714	864	972	1080	1242	1410	1518
7	348	189	238	287	336	413	441	497	553	665	833	1008	1134	1260	1449	1645	1771
8	394	216	272	328	384	472	504	568	632	760	952	1152	1296	1440	1656	1880	2024
9	440	243	306	369	432	531	567	639	711	855	1071	1296	1458	1620	1863	2115	2277
10	486	270	340	410	480	590	630	710	790	950	1190	1440	1620	1800	2070	2350	2530
11	532	297	374	451	528	649	693	781	869	1045	1309	1584	1782	1980	2277	2585	2783
12	578	324	408	492	576	708	756	852	948	1140	1428	1728	1944	2160	2484	2820	3036
13	624	351	442	533	624	767	819	923	1027	1235	1547	1872	2106	2340	2691	3055	3289
14	670	378	476	574	672	826	882	994	1106	1330	1666	2016	2268	2520	2898	3290	3542
15	716	405	510	615	720	885	945	1065	1185	1425	1785	2160	2430	2700	3105	3525	3795
16	762	432	544	656	768	944	1008	1136	1264	1520	1904	2304	2592	2880	3312	3760	4048
17	808	459	578	697	816	1003	1071	1207	1343	1615	2023	2448	2754	3060	3519	3995	4301
18	854	486	612	738	864	1062	1134	1278	1422	1710	2142	2592	2916	3240	3726	4230	4554
19	900	513	646	779	912	1121	1197	1349	1501	1805	2261	2736	3078	3420	3933	4465	4807
20	946	540	680	820	960	1180	1260	1420	1580	1900	2380	2880	3240	3600	4140	4700	5060
21	992	567	714	861	1008	1239	1323	1491	1659	1995	2499	3024	3402	3780	4347	4935	5313
22	1038	594	748	902	1056	1298	1386	1562	1738	2090	2618	3168	3564	3960	4554	5170	5566
23	1084	621	782	943	1104	1357	1449	1633	1817	2185	2737	3312	3726	4140	4761	5405	5819
24	1130	648	816	984	1152	1416	1512	1704	1896	2280	2856	3456	3888	4320	4968	5640	6072
25	1176	675	850	1025	1200	1475	1575	1775	1975	2375	2975	3600	4050	4500	5175	5875	6325
26	1222	702	884	1066	1248	1534	1638	1846	2054	2470	3094	3744	4212	4680	5382	6110	6578
27	1268	729	918	1107	1296	1593	1701	1917	2133	2565	3213	3888	4374	4860	5589	6345	6831
28	1314	756	952	1148	1344	1652	1764	1988	2212	2660	3332	4032	4536	5040	5796	6580	7084
29	1360	783	986	1189	1392	1711	1827	2059	2291	2755	3451	4176	4698	5220	6003	6815	7337
30	1406	810	1020	1230	1440	1770	1890	2130	2370	2850	3570	4320	4860	5400	6210	7050	7590
31	1452	837	1054	1271	1488	1829	1953	2201	2449	2945	3689	4464	5022	5580	6417	7285	7843
32	1498	864	1088	1312	1536	1888	2016	2272	2528	3040	3808	4608	5184	5760	6624	7520	8096
33	1544	891	1122	1353	1584	1947	2079	2343	2607	3135	3927	4752	5346	5940	6831	7755	8349
34	1590	918	1156	1394	1632	2006	2142	2414	2686	3230	4046	4896	5508	6120	7038	7990	8602
35	1636	945	1190	1435	1680	2065	2205	2485	2765	3325	4165	5040	5670	6300	7245	8225	8855
36	1682	972	1224	1476	1728	2124	2268	2556	2844	3420	4284	5184	5832	6480	7452	8460	9108

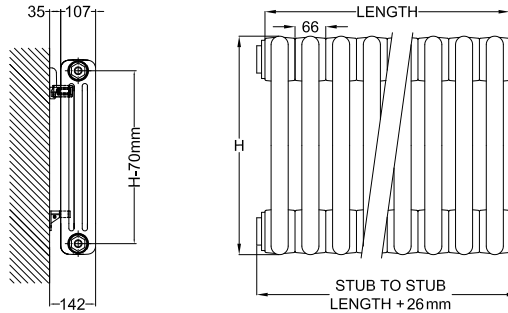
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

3 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.7	0.8	0.9	1.0	1.2	1.2	1.4	1.5	1.7	2.1	2.4	2.6	2.9	3.3	3.7	3.9
WEIGHT (KG) (PER ELEMENT)		0.8	1.0	1.3	1.5	1.8	1.8	2.2	2.4	2.8	3.4	4.1	4.5	4.9	5.4	6.1	6.5
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	74	94	112	130	160	170	192	214	258	324	392	442	490	566	644	700
3	164	111	141	168	195	240	255	288	321	387	486	588	663	735	849	966	1050
4	210	148	188	224	260	320	340	384	428	516	648	784	884	980	1132	1288	1400
5	256	185	235	280	325	400	425	480	535	645	810	980	1105	1225	1415	1610	1750
6	302	222	282	336	390	480	510	576	642	774	972	1176	1326	1470	1698	1932	2100
7	348	259	329	392	455	560	595	672	749	903	1134	1372	1547	1715	1981	2254	2450
8	394	296	376	448	520	640	680	768	856	1032	1296	1568	1768	1960	2264	2576	2800
9	440	333	423	504	585	720	765	864	963	1161	1458	1764	1989	2205	2547	2898	3150
10	486	370	470	560	650	800	850	960	1070	1290	1620	1960	2210	2450	2830	3220	3500
11	532	407	517	616	715	880	935	1056	1177	1419	1782	2156	2431	2695	3113	3542	3850
12	578	444	564	672	780	960	1020	1152	1284	1548	1944	2352	2652	2940	3396	3864	4200
13	624	481	611	728	845	1040	1105	1248	1391	1677	2106	2548	2873	3185	3679	4186	4550
14	670	518	658	784	910	1120	1190	1344	1498	1806	2268	2744	3094	3430	3962	4508	4900
15	716	555	705	840	975	1200	1275	1440	1605	1935	2430	2940	3315	3675	4245	4830	5250
16	762	592	752	896	1040	1280	1360	1536	1712	2064	2592	3136	3536	3920	4528	5152	5600
17	808	629	799	952	1105	1360	1445	1632	1819	2193	2754	3332	3757	4165	4811	5474	5950
18	854	666	846	1008	1170	1440	1530	1728	1926	2322	2916	3528	3978	4410	5094	5796	6300
19	900	703	893	1064	1235	1520	1615	1824	2033	2451	3078	3724	4199	4655	5377	6118	6650
20	946	740	940	1120	1300	1600	1700	1920	2140	2580	3240	3920	4420	4900	5660	6440	7000
21	992	777	987	1176	1365	1680	1785	2016	2247	2709	3402	4116	4641	5145	5943	6762	7350
22	1038	814	1034	1232	1430	1760	1870	2112	2354	2838	3564	4312	4862	5390	6226	7084	7700
23	1084	851	1081	1288	1495	1840	1955	2208	2461	2967	3726	4508	5083	5635	6509	7406	8050
24	1130	888	1128	1344	1560	1920	2040	2304	2568	3096	3888	4704	5304	5880	6792	7728	8400
25	1176	925	1175	1400	1625	2000	2125	2400	2675	3225	4050	4900	5525	6125	7075	8050	8750
26	1222	962	1222	1456	1690	2080	2210	2496	2782	3354	4212	5096	5746	6370	7358	8372	9100
27	1268	999	1269	1512	1755	2160	2295	2592	2889	3483	4374	5292	5967	6615	7641	8694	9450
28	1314	1036	1316	1568	1820	2240	2380	2688	2996	3612	4536	5488	6188	6860	7924	9016	9800
29	1360	1073	1363	1624	1885	2320	2465	2784	3103	3741	4698	5684	6409	7105	8207	9338	10150
30	1406	1110	1410	1680	1950	2400	2550	2880	3210	3870	4860	5880	6630	7350	8490	9660	10500
31	1452	1147	1457	1736	2015	2480	2635	2976	3317	3999	5022	6076	6851	7595	8773	9982	10850
32	1498	1184	1504	1792	2080	2560	2720	3072	3424	4128	5184	6272	7072	7840	9056	10304	11200
33	1544	1221	1551	1848	2145	2640	2805	3168	3531	4257	5346	6468	7293	8085	9339	10626	11550
34	1590	1258	1598	1904	2210	2720	2890	3264	3638	4386	5508	6664	7514	8330	9622	10948	11900
35	1636	1295	1645	1960	2275	2800	2975	3360	3745	4515	5670	6860	7735	8575	9905	11270	12250
36	1682	1332	1692	2016	2340	2880	3060	3456	3852	4644	5832	7056	7956	8820	10188	11592	12600

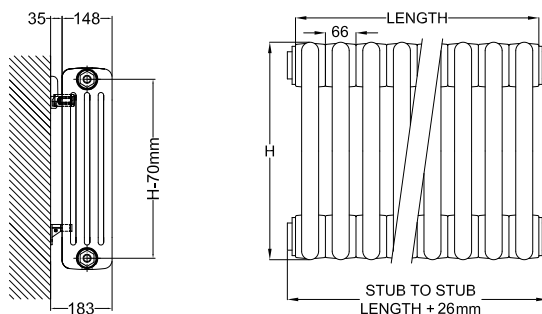
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

4 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.9	1.0	1.2	1.3	1.6	1.6	1.8	2.0	2.3	2.8	3.2	3.5	3.8	4.3	4.8	5.1
WEIGHT (KG) (PER ELEMENT)		1.0	1.3	1.6	1.9	2.3	2.4	2.7	3.0	3.6	4.5	5.4	5.9	6.4	7.2	7.9	8.5
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	92	120	148	174	214	230	260	290	348	436	524	588	650	742	836	900
3	164	138	180	222	261	321	345	390	435	522	654	786	882	975	1113	1254	1350
4	210	184	240	296	348	428	460	520	580	696	872	1048	1176	1300	1484	1672	1800
5	256	230	300	370	435	535	575	650	725	870	1090	1310	1470	1625	1855	2090	2250
6	302	276	360	444	522	642	690	780	870	1044	1308	1572	1764	1950	2226	2508	2700
7	348	322	420	518	609	749	805	910	1015	1218	1526	1834	2058	2275	2597	2926	3150
8	394	368	480	592	696	856	920	1040	1160	1392	1744	2096	2352	2600	2968	3344	3600
9	440	414	540	666	783	963	1035	1170	1305	1566	1962	2358	2646	2925	3339	3762	4050
10	486	460	600	740	870	1070	1150	1300	1450	1740	2180	2620	2940	3250	3710	4180	4500
11	532	506	660	814	957	1177	1265	1430	1595	1914	2398	2882	3234	3575	4081	4598	4950
12	578	552	720	888	1044	1284	1380	1560	1740	2088	2616	3144	3528	3900	4452	5016	5400
13	624	598	780	962	1131	1391	1495	1690	1885	2262	2834	3406	3822	4225	4823	5434	5850
14	670	644	840	1036	1218	1498	1610	1820	2030	2436	3052	3668	4116	4550	5194	5852	6300
15	716	690	900	1110	1305	1605	1725	1950	2175	2610	3270	3930	4410	4875	5565	6270	6750
16	762	736	960	1184	1392	1712	1840	2080	2320	2784	3488	4192	4704	5200	5936	6688	7200
17	808	782	1020	1258	1479	1819	1955	2210	2465	2958	3706	4454	4998	5525	6307	7106	7650
18	854	828	1080	1332	1566	1926	2070	2340	2610	3132	3924	4716	5292	5850	6678	7524	8100
19	900	874	1140	1406	1653	2033	2185	2470	2755	3306	4142	4978	5586	6175	7049	7942	8550
20	946	920	1200	1480	1740	2140	2300	2600	2900	3480	4360	5240	5880	6500	7420	8360	9000
21	992	966	1260	1554	1827	2247	2415	2730	3045	3654	4578	5502	6174	6825	7791	8778	9450
22	1038	1012	1320	1628	1914	2354	2530	2860	3190	3828	4796	5764	6468	7150	8162	9196	9900
23	1084	1058	1380	1702	2001	2461	2645	2990	3335	4002	5014	6026	6762	7475	8533	9614	10350
24	1130	1104	1440	1776	2088	2568	2760	3120	3480	4176	5232	6288	7056	7800	8904	10032	10800
25	1176	1150	1500	1850	2175	2675	2875	3250	3625	4350	5450	6550	7350	8125	9275	10450	11250
26	1222	1196	1560	1924	2262	2782	2990	3380	3770	4524	5668	6812	7644	8450	9646	10868	11700
27	1268	1242	1620	1998	2349	2889	3105	3510	3915	4698	5886	7074	7938	8775	10017	11286	12150
28	1314	1288	1680	2072	2436	2996	3220	3640	4060	4872	6104	7336	8232	9100	10388	11704	12600
29	1360	1334	1740	2146	2523	3103	3335	3770	4205	5046	6322	7598	8526	9425	10759	12122	13050
30	1406	1380	1800	2220	2610	3210	3450	3900	4350	5220	6540	7860	8820	9750	11130	12540	13500
31	1452	1426	1860	2294	2697	3317	3565	4030	4495	5394	6758	8122	9114	10075	11501	12958	13950
32	1498	1472	1920	2368	2784	3424	3680	4160	4640	5568	6976	8384	9408	10400	11872	13376	14400
33	1544	1518	1980	2442	2871	3531	3795	4290	4785	5742	7194	8646	9702	10725	12243	13794	14850
34	1590	1564	2040	2516	2958	3638	3910	4420	4930	5916	7412	8908	9996	11050	12614	14212	15300
35	1636	1610	2100	2590	3045	3745	4025	4550	5075	6090	7630	9170	10290	11375	12985	14630	15750
36	1682	1656	2160	2664	3132	3852	4140	4680	5220	6264	7848	9432	10584	11700	13356	15048	16200

Greyed out sizes indicate weight of over 100kg

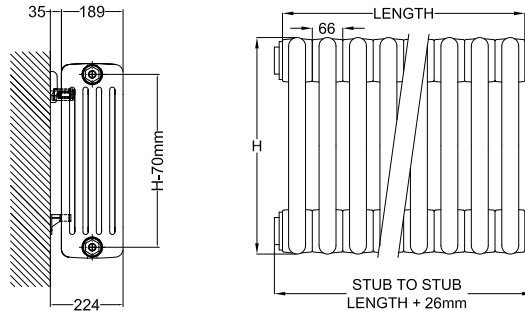
10 /

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

5 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.1	1.3	1.5	1.7	1.9	1.9	2.2	2.4	2.8	3.4	4.0	4.4	4.8	5.4	6.0	6.3
WEIGHT (KG) (PER ELEMENT)		1.3	1.7	2.0	2.4	2.9	3.1	3.4	3.8	4.5	5.6	6.6	7.3	8.0	9.1	10.2	10.9
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	110	144	176	208	254	272	308	342	410	512	616	690	764	874	986	1066
3	164	165	216	264	312	381	408	462	513	615	768	924	1035	1146	1311	1479	1599
4	210	220	288	352	416	508	544	616	684	820	1024	1232	1380	1528	1748	1972	2132
5	256	275	360	440	520	635	680	770	855	1025	1280	1540	1725	1910	2185	2465	2665
6	302	330	432	528	624	762	816	924	1026	1230	1536	1848	2070	2292	2622	2958	3198
7	348	385	504	616	728	889	952	1078	1197	1435	1792	2156	2415	2674	3059	3451	3731
8	394	440	576	704	832	1016	1088	1232	1368	1640	2048	2464	2760	3056	3496	3944	4264
9	440	495	648	792	936	1143	1224	1386	1539	1845	2304	2772	3105	3438	3933	4437	4797
10	486	550	720	880	1040	1270	1360	1540	1710	2050	2560	3080	3450	3820	4370	4930	5330
11	532	605	792	968	1144	1397	1496	1694	1881	2255	2816	3388	3795	4202	4807	5423	5863
12	578	660	864	1056	1248	1524	1632	1848	2052	2460	3072	3696	4140	4584	5244	5916	6396
13	624	715	936	1144	1352	1651	1768	2002	2223	2665	3328	4004	4485	4966	5681	6409	6929
14	670	770	1008	1232	1456	1778	1904	2156	2394	2870	3584	4312	4830	5348	6118	6902	7462
15	716	825	1080	1320	1560	1905	2040	2310	2565	3075	3840	4620	5175	5730	6555	7395	7995
16	762	880	1152	1408	1664	2032	2176	2464	2736	3280	4096	4928	5520	6112	6992	7888	8528
17	808	935	1224	1496	1768	2159	2312	2618	2907	3485	4352	5236	5865	6494	7429	8381	9061
18	854	990	1296	1584	1872	2286	2448	2772	3078	3690	4608	5544	6210	6876	7866	8874	9594
19	900	1045	1368	1672	1976	2413	2584	2926	3249	3895	4864	5852	6555	7258	8303	9367	10127
20	946	1100	1440	1760	2080	2540	2720	3080	3420	4100	5120	6160	6900	7640	8740	9860	10660
21	992	1155	1512	1848	2184	2667	2856	3234	3591	4305	5376	6468	7245	8022	9177	10353	11193
22	1038	1210	1584	1936	2288	2794	2992	3388	3762	4510	5632	6776	7590	8404	9614	10846	11726
23	1084	1265	1656	2024	2392	2921	3128	3542	3933	4715	5888	7084	7935	8786	10051	11339	12259
24	1130	1320	1728	2112	2496	3048	3264	3696	4104	4920	6144	7392	8280	9168	10488	11832	12792
25	1176	1375	1800	2200	2600	3175	3400	3850	4275	5125	6400	7700	8625	9550	10925	12325	13325
26	1222	1430	1872	2288	2704	3302	3536	4004	4446	5330	6656	8008	8970	9932	11362	12818	13858
27	1268	1485	1944	2376	2808	3429	3672	4158	4617	5535	6912	8316	9315	10314	11799	13311	14391
28	1314	1540	2016	2464	2912	3556	3808	4312	4788	5740	7168	8624	9660	10696	12236	13804	14924
29	1360	1595	2088	2552	3016	3683	3944	4466	4959	5945	7424	8932	10005	11078	12673	14297	15457
30	1406	1650	2160	2640	3120	3810	4080	4620	5130	6150	7680	9240	10350	11460	13110	14790	15990
31	1452	1705	2232	2728	3224	3937	4216	4774	5301	6355	7936	9548	10695	11842	13547	15283	16523
32	1498	1760	2304	2816	3328	4064	4352	4928	5472	6560	8192	9856	11040	12224	13984	15776	17056
33	1544	1815	2376	2904	3432	4191	4488	5082	5643	6765	8448	10164	11385	12606	14421	16269	17589
34	1590	1870	2448	2992	3536	4318	4624	5236	5814	6970	8704	10472	11730	12988	14858	16762	18122
35	1636	1925	2520	3080	3640	4445	4760	5390	5985	7175	8960	10780	12075	13370	15295	17255	18655
36	1682	1980	2592	3168	3744	4572	4896	5544	6156	7380	9216	11088	12420	13752	15732	17748	19188

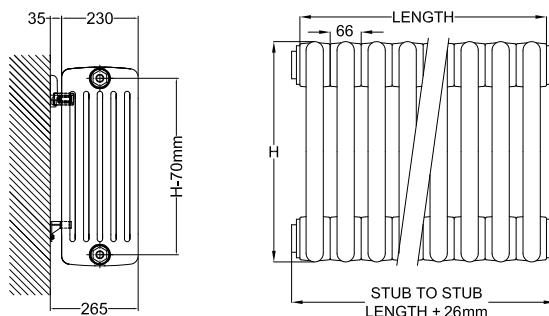
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

6 Column

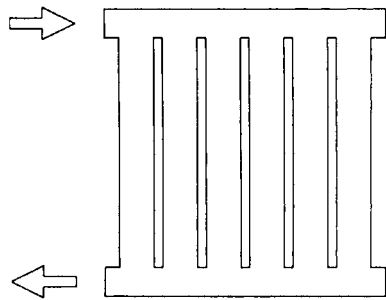


		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.2	1.4	1.7	1.9	2.3	2.3	2.6	2.9	3.4	4.1	4.8	5.3	5.8	6.5	7.2	7.8
WEIGHT (KG) (PER ELEMENT)		1.6	2.0	2.4	2.8	3.5	3.8	4.1	4.5	5.3	6.6	7.8	8.7	9.6	10.9	12.2	13.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	134	174	212	252	310	330	372	416	496	618	744	830	914	1040	1168	1258
3	164	201	261	318	378	465	495	558	624	744	927	1116	1245	1371	1560	1752	1887
4	210	268	348	424	504	620	660	744	832	992	1236	1488	1660	1828	2080	2336	2516
5	256	335	435	530	630	775	825	930	1040	1240	1545	1860	2075	2285	2600	2920	3145
6	302	402	522	636	756	930	990	1116	1248	1488	1854	2232	2490	2742	3120	3504	3774
7	348	469	609	742	882	1085	1155	1302	1456	1736	2163	2604	2905	3199	3640	4088	4403
8	394	536	696	848	1008	1240	1320	1488	1664	1984	2472	2976	3320	3656	4160	4672	5032
9	440	603	783	954	1134	1395	1485	1674	1872	2232	2781	3348	3735	4113	4680	5256	5661
10	486	670	870	1060	1260	1550	1650	1860	2080	2480	3090	3720	4150	4570	5200	5840	6290
11	532	737	957	1166	1386	1705	1815	2046	2288	2728	3399	4092	4565	5027	5720	6424	6919
12	578	804	1044	1272	1512	1860	1980	2232	2496	2976	3708	4464	4980	5484	6240	7008	7548
13	624	871	1131	1378	1638	2015	2145	2418	2704	3224	4017	4836	5395	5941	6760	7592	8177
14	670	938	1218	1484	1764	2170	2310	2604	2912	3472	4326	5208	5810	6398	7280	8176	8806
15	716	1005	1305	1590	1890	2325	2475	2790	3120	3720	4635	5580	6225	6855	7800	8760	9435
16	762	1072	1392	1696	2016	2480	2640	2976	3328	3968	4944	5952	6640	7312	8320	9344	10064
17	808	1139	1479	1802	2142	2635	2805	3162	3536	4216	5253	6324	7055	7769	8840	9928	10693
18	854	1206	1566	1908	2268	2790	2970	3348	3744	4464	5562	6696	7470	8226	9360	10512	11322
19	900	1273	1653	2014	2394	2945	3135	3534	3952	4712	5871	7068	7885	8683	9880	11096	11951
20	946	1340	1740	2120	2520	3100	3300	3720	4160	4960	6180	7440	8300	9140	10400	11680	12580
21	992	1407	1827	2226	2646	3255	3465	3906	4368	5208	6489	7812	8715	9597	10920	12264	13209
22	1038	1474	1914	2332	2772	3410	3630	4092	4576	5456	6798	8184	9130	10054	11440	12848	13838
23	1084	1541	2001	2438	2898	3565	3795	4278	4784	5704	7107	8556	9545	10511	11960	13432	14467
24	1130	1608	2088	2544	3024	3720	3960	4464	4992	5952	7416	8928	9960	10968	12480	14016	15096
25	1176	1675	2175	2650	3150	3875	4125	4650	5200	6200	7725	9300	10375	11425	13000	14600	15725
26	1222	1742	2262	2756	3276	4030	4290	4836	5408	6448	8034	9672	10790	11882	13520	15184	16354
27	1268	1809	2349	2862	3402	4185	4455	5022	5616	6696	8343	10044	11205	12339	14040	15768	16983
28	1314	1876	2436	2968	3528	4340	4620	5208	5824	6944	8652	10416	11620	12796	14560	16352	17612
29	1360	1943	2523	3074	3654	4495	4785	5394	6032	7192	8961	10788	12035	13253	15080	16936	18241
30	1406	2010	2610	3180	3780	4650	4950	5580	6240	7440	9270	11160	12450	13710	15600	17520	18870
31	1452	2077	2697	3286	3906	4805	5115	5766	6448	7688	9579	11532	12865	14167	16120	18104	19499
32	1498	2144	2784	3392	4032	4960	5280	5952	6656	7936	9888	11904	13280	14624	16640	18688	20128
33	1544	2211	2871	3498	4158	5115	5445	6138	6864	8184	10197	12276	13695	15081	17160	19272	20757
34	1590	2278	2958	3604	4284	5270	5610	6324	7072	8432	10506	12648	14110	15538	17680	19856	21386
35	1636	2345	3045	3710	4410	5425	5775	6510	7280	8680	10815	13020	14525	15995	18200	20440	22015
36	1682	2412	3132	3816	4536	5580	5940	6696	7488	8928	11124	13392	14940	16452	18720	21024	22644

Greyed out sizes indicate weight of over 100kg

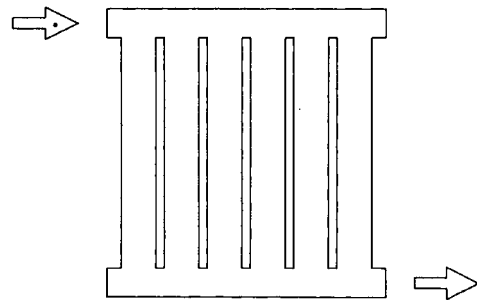
Connection Options

TBSE



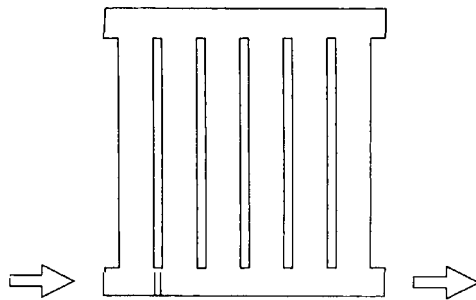
SIDE CONNECTIONS

TBOE



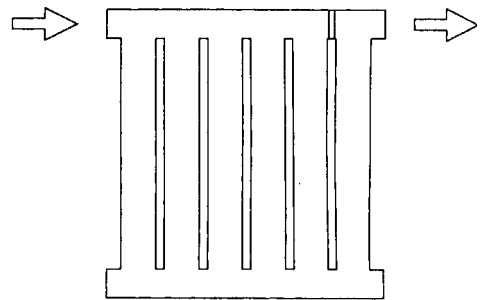
OPPOSITE CONNECTIONS

BOE (BD)



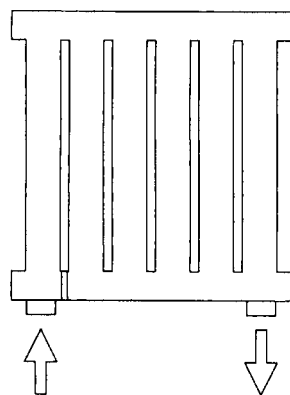
BOTTOM CONNECTIONS - LESS THAN 15 SECTIONS OR GREATER THAN 1 METRE HIGH WILL REQUIRE FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

TOE



TOP CONNECTIONS WITH FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

(BOE) (EF)



BOTTOM CONNECTIONS WITH 1/2" BUSHES
WITH FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

Connection sizes available

1/2" (15mm)

3/4" (20 mm)

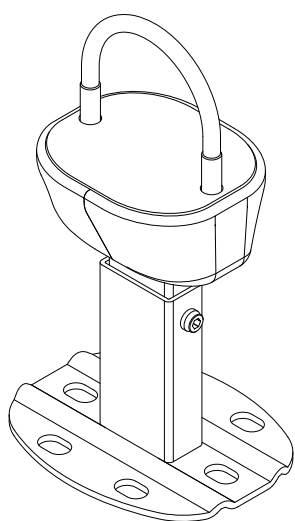
1" (25mm)

Note: Flow and return positions must be specified at point of order

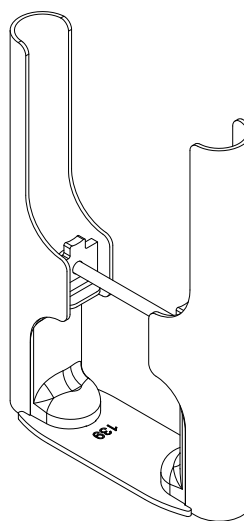
Mounting Options

Any feet must be specified at the time of order and are available at a minimum of 100mm high.

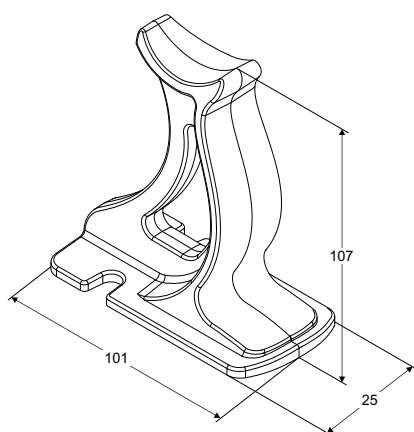
Multicolumn radiators mounted on feet cannot be freestanding when the total height including feet exceeds 500mm. For any further queries, please contact the Merriott Sales Office.



Loose foot



Double loose foot



Design foot

Correction Factors

The outputs quoted in this brochure are based on a ΔT of 50°C.

Listed below are the multiplying factors needed to calculate the output at other Delta Ts (ΔT s) between 10°C and 80°C. This is done by multiplying your heat output with the appropriate correction factor selected from the table below. Please note more detailed correction factors for multicolumn products are available from your local Merriott contact.

EXAMPLE:

Required Room Temperature = 21°C, Low Temperature = 86°C, Return Temperature = 72°C

SOLUTION:

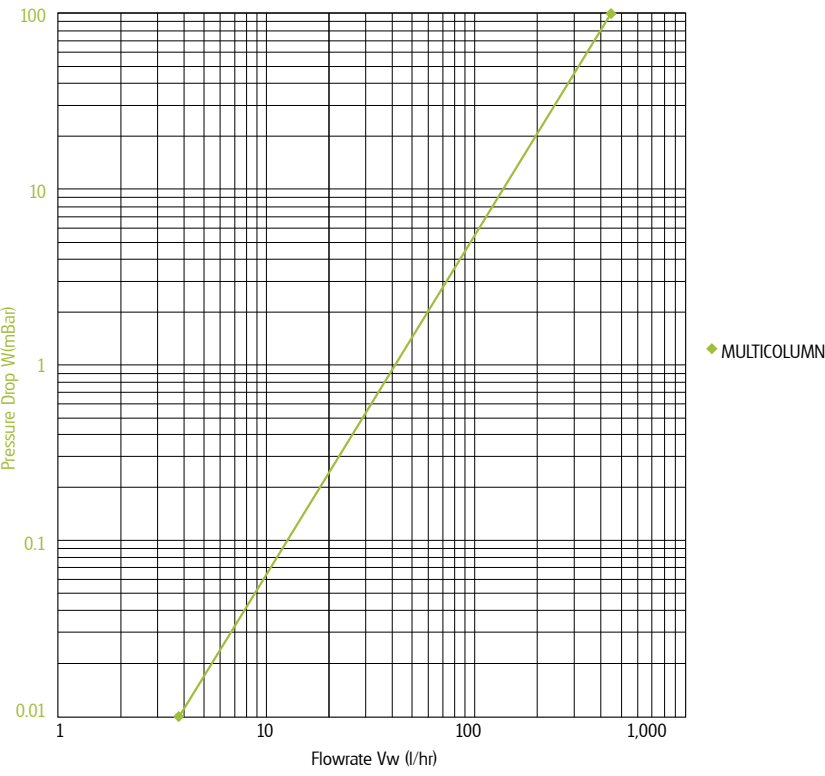
Mean Water Temperature = $(T_{\text{Flow}} + T_{\text{Return}}) / 2 = (86 + 72) / 2 = 79^\circ\text{C}$

$\Delta T = \text{Mean Water Temperature} - \text{Required Room Temperature} = 79 - 21 = 58^\circ\text{C}$

From the tables below, the output for a Multicolumn at $\Delta T 58^\circ\text{C}$ is 1.216 times the output stated at $\Delta T 50^\circ\text{C}$.

$\Delta T(^{\circ}\text{C})$	Based on $\Delta T50$	$\Delta T(^{\circ}\text{C})$	Based on $\Delta T50$
10	0.126	46	0.898
11	0.142	47	0.923
12	0.159	48	0.949
13	0.176	49	0.974
14	0.194	50	1.000
15	0.212	51	1.026
16	0.230	52	1.052
17	0.249	53	1.078
18	0.268	54	1.104
19	0.287	55	1.131
20	0.307	56	1.157
21	0.327	57	1.184
22	0.347	58	1.211
23	0.368	59	1.238
24	0.388	60	1.265
25	0.409	61	1.292
26	0.431	62	1.320
27	0.452	63	1.347
28	0.474	64	1.375
29	0.496	65	1.403
30	0.518	66	1.430
31	0.540	67	1.458
32	0.563	68	1.487
33	0.585	69	1.515
34	0.608	70	1.543
35	0.632	71	1.572
36	0.655	72	1.600
37	0.678	73	1.629
38	0.702	74	1.658
39	0.726	75	1.687
40	0.750	76	1.716
41	0.774	77	1.745
42	0.799	78	1.774
43	0.823	79	1.804
44	0.848	80	1.833
45	0.873		

Resistance Diagram



How to calculate the resistance of a Multicolumn at ΔT 50°C

Radiator type: MMC3 1012mm LONG x 600mm HIGH

Output @ ΔT 50°C: 1342W (flow/return – 75/65°C)

If the output is not at ΔT 50°C, please use the correction factor table on the previous page to get the correct output.

C –	Specific Heat Constant (always 4187 J/kg°C)			
Q –	(m)	x	(C)	x (ΔT)
Output –	(flow rate)	x	(Constant)	x (difference between flow and return temp)
Watts –	(l/s)		(J/kg°C)	(°C)
2703 –	(m)		(4187)	(10)

Therefore

- m - 1342 / ((4187) X (10))
- m - 0.0320515 (L/S)
- X 3600 (L/H)
- m - 115.4 L/H

Please refer to the resistance diagram which gives a value of approx 9.5mBar.

Range Overview

Product Description

Merriott Multicolumns offer outputs ranging from 24 watts to 542 watts per section at $\Delta T 50^{\circ}\text{C}$. Sizing and output charts are included in this brochure.

The heights available range from 300mm to 3000mm for all types of Multicolumns.

Radiators are joined together using nipples. Please note that the end pieces of a Multicolumn are 13mm in length each, therefore will add 26mm to the overall length of the radiator.

Outputs

All Merriott Multicolumns radiators have been manufactured and tested in accordance with EN442.

Pitch Plus

Also available in the Merriott range is the Pitch Plus, a multicolumn radiator manufactured specifically for environments where hygiene is a top priority. Its extended 66mm pitch makes it easy to clean between the columns, preventing the build-up of dust and bacteria.

Finish

Every Merriott Multicolumn radiator undergoes an intensive pre-treatment process to protect against rust. In pre-treatment, the radiators go through a series of washes which degrease the steel and an iron phosphate rinse passivates the surface prior to painting. The primer coat is applied by immersion in an electrophoretic bath to give total coverage of the bare steel and maximum corrosion protection. The durable topcoat (epoxy polyester powder) is electrostatically applied and stove enamel baked at 200°C . The process is monitored to ensure continuous achievement of optimum adhesion, opacity and gloss levels.

Colour

Our standard finish is semi-gloss RAL 9016 (White) in epoxy polyester powder. An extensive range of other RAL and BS colours are available, at a surcharge, on request.

Packaging

The entire surface of the radiator, including all 4 corners, is protected by cardboard box ends and packed in shrink wrapped polythene.

Connections

Standard connections are $4 \times \frac{1}{2}"$ (15mm) BSP connections. These can be used as BOE, TOE, TBOE and TBSE connection configurations. $\frac{1}{4}"$, $\frac{3}{8}"$, $\frac{3}{4}"$ and $1 \frac{1}{4}"$ connections are available on request.

Note: Flow and return positions must be specified at time of ordering.

Testing

Merriott Multicolumns have been tested at 13 Bar with a maximum working pressure of 10 Bar.

Feet

The Multicolumn can be supplied with loose, double loose or design feet at an additional cost.

Dimensional Tolerances

Dimensional Tolerances are in accordance with EN442.

Materials

Multicolumn radiators are made from 1.2mm thick steel, forming tubes of a 25mm diameter.

Warranty

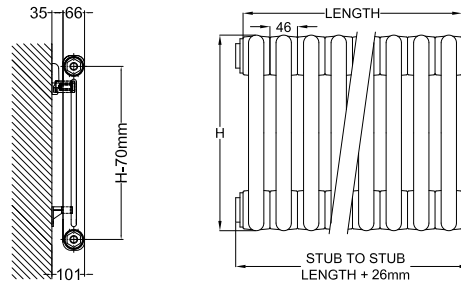
Merriott radiators are guaranteed for a period of 10 years from date of purchase in respect of defective materials and workmanship. The system should be designed in accordance with the British Standard Code of Practice for Water Based Heating Systems in Buildings **BS EN 12828:2012+A1:2014** and **BS EN 12831: 2003**. The installation and commissioning of the system should comply with **BS EN 14336:2004**. On completion of the installation the system should be properly flushed and filled in accordance with the British Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems **BS 7593:2006**, Part L of Building Regulations and Good Practice Guidance for Scotland. Merriott strongly recommend the use of corrosion inhibitor for all applications. Failure to observe these standards may invalidate the manufacturer's warranty.

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

2 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.4	1.6	1.7	1.9	2.1	2.3	2.4
WEIGHT (KG) (PER ELEMENT)		0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.0	4.3
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	48	62	76	90	110	116	130	144	172	212	256	284	314	360	408	436
3	164	72	93	114	135	165	174	195	216	258	318	384	426	471	540	612	654
4	210	96	124	152	180	220	232	260	288	344	424	512	568	628	720	816	872
5	256	120	155	190	225	275	290	325	360	430	530	640	710	785	900	1020	1090
6	302	144	186	228	270	330	348	390	432	516	636	768	852	942	1080	1224	1308
7	348	168	217	266	315	385	406	455	504	602	742	896	994	1099	1260	1428	1526
8	394	192	248	304	360	440	464	520	576	688	848	1024	1136	1256	1440	1632	1744
9	440	216	279	342	405	495	522	585	648	774	954	1152	1278	1413	1620	1836	1962
10	486	240	310	380	450	550	580	650	720	860	1060	1280	1420	1570	1800	2040	2180
11	532	264	341	418	495	605	638	715	792	946	1166	1408	1562	1727	1980	2244	2398
12	578	288	372	456	540	660	696	780	864	1032	1272	1536	1704	1884	2160	2448	2616
13	624	312	403	494	585	715	754	845	936	1118	1378	1664	1846	2041	2340	2652	2834
14	670	336	434	532	630	770	812	910	1008	1204	1484	1792	1988	2198	2520	2856	3052
15	716	360	465	570	675	825	870	975	1080	1290	1590	1920	2130	2355	2700	3060	3270
16	762	384	496	608	720	880	928	1040	1152	1376	1696	2048	2272	2512	2880	3264	3488
17	808	408	527	646	765	935	986	1105	1224	1462	1802	2176	2414	2669	3060	3468	3706
18	854	432	558	684	810	990	1044	1170	1296	1548	1908	2304	2556	2826	3240	3672	3924
19	900	456	589	722	855	1045	1102	1235	1368	1634	2014	2432	2698	2983	3420	3876	4142
20	946	480	620	760	900	1100	1160	1300	1440	1720	2120	2560	2840	3140	3600	4080	4360
21	992	504	651	798	945	1155	1218	1365	1512	1806	2226	2688	2982	3297	3780	4284	4578
22	1038	528	682	836	990	1210	1276	1430	1584	1892	2332	2816	3124	3454	3960	4488	4796
23	1084	552	713	874	1035	1265	1334	1495	1656	1978	2438	2944	3266	3611	4140	4692	5014
24	1130	576	744	912	1080	1320	1392	1560	1728	2064	2544	3072	3408	3768	4320	4896	5232
25	1176	600	775	950	1125	1375	1450	1625	1800	2150	2650	3200	3550	3925	4500	5100	5450
26	1222	624	806	988	1170	1430	1508	1690	1872	2236	2756	3328	3692	4082	4680	5304	5668
27	1268	648	837	1026	1215	1485	1566	1755	1944	2322	2862	3456	3834	4239	4860	5508	5886
28	1314	672	868	1064	1260	1540	1624	1820	2016	2408	2968	3584	3976	4396	5040	5712	6104
29	1360	696	899	1102	1305	1595	1682	1885	2088	2494	3074	3712	4118	4553	5220	5916	6322
30	1406	720	930	1140	1350	1650	1740	1950	2160	2580	3180	3840	4260	4710	5400	6120	6540
31	1452	744	961	1178	1395	1705	1798	2015	2232	2666	3286	3968	4402	4867	5580	6324	6758
32	1498	768	992	1216	1440	1760	1856	2080	2304	2752	3392	4096	4544	5024	5760	6528	6976
33	1544	792	1023	1254	1485	1815	1914	2145	2376	2838	3498	4224	4686	5181	5940	6732	7194
34	1590	816	1054	1292	1530	1870	1972	2210	2448	2924	3604	4352	4828	5338	6120	6936	7412
35	1636	840	1085	1330	1575	1925	2030	2275	2520	3010	3710	4480	4970	5495	6300	7140	7630
36	1682	864	1116	1368	1620	1980	2088	2340	2592	3096	3816	4608	5112	5652	6480	7344	7848

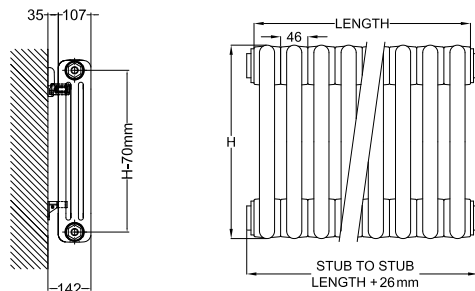
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

3 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	2.0	2.3	2.6	2.8	3.2	3.6	3.8
WEIGHT (KG) (PER ELEMENT)		0.7	0.9	1.2	1.4	1.7	1.8	2.1	2.3	2.7	3.3	4.0	4.4	4.8	5.3	6.0	6.4
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	66	84	104	122	150	158	176	194	232	288	348	388	428	492	558	604
3	164	99	126	156	183	225	237	264	291	348	432	522	582	642	738	837	906
4	210	132	168	208	244	300	316	352	388	464	576	696	776	856	984	1116	1208
5	256	165	210	260	305	375	395	440	485	580	720	870	970	1070	1230	1395	1510
6	302	198	252	312	366	450	474	528	582	696	864	1044	1164	1284	1476	1674	1812
7	348	231	294	364	427	525	553	616	679	812	1008	1218	1358	1498	1722	1953	2114
8	394	264	336	416	488	600	632	704	776	928	1152	1392	1552	1712	1968	2232	2416
9	440	297	378	468	549	675	711	792	873	1044	1296	1566	1746	1926	2214	2511	2718
10	486	330	420	520	610	750	790	880	970	1160	1440	1740	1940	2140	2460	2790	3020
11	532	363	462	572	671	825	869	968	1067	1276	1584	1914	2134	2354	2706	3069	3322
12	578	396	504	624	732	900	948	1056	1164	1392	1728	2088	2328	2568	2952	3348	3624
13	624	429	546	676	793	975	1027	1144	1261	1508	1872	2262	2522	2782	3198	3627	3926
14	670	462	588	728	854	1050	1106	1232	1358	1624	2016	2436	2716	2996	3444	3906	4228
15	716	495	630	780	915	1125	1185	1320	1455	1740	2160	2610	2910	3210	3690	4185	4530
16	762	528	672	832	976	1200	1264	1408	1552	1856	2304	2784	3104	3424	3936	4464	4832
17	808	561	714	884	1037	1275	1343	1496	1649	1972	2448	2958	3298	3638	4182	4743	5134
18	854	594	756	936	1098	1350	1422	1584	1746	2088	2592	3132	3492	3852	4428	5022	5436
19	900	627	798	988	1159	1425	1501	1672	1843	2204	2736	3306	3686	4066	4674	5301	5738
20	946	660	840	1040	1220	1500	1580	1760	1940	2320	2880	3480	3880	4280	4920	5580	6040
21	992	693	882	1092	1281	1575	1659	1848	2037	2436	3024	3654	4074	4494	5166	5859	6342
22	1038	726	924	1144	1342	1650	1738	1936	2134	2552	3168	3828	4268	4708	5412	6138	6644
23	1084	759	966	1196	1403	1725	1817	2024	2231	2668	3312	4002	4462	4922	5658	6417	6946
24	1130	792	1008	1248	1464	1800	1896	2112	2328	2784	3456	4176	4656	5136	5904	6696	7248
25	1176	825	1050	1300	1525	1875	1975	2200	2425	2900	3600	4350	4850	5350	6150	6975	7550
26	1222	858	1092	1352	1586	1950	2054	2288	2522	3016	3744	4524	5044	5564	6396	7254	7852
27	1268	891	1134	1404	1647	2025	2133	2376	2619	3132	3888	4698	5238	5778	6642	7533	8154
28	1314	924	1176	1456	1708	2100	2212	2464	2716	3248	4032	4872	5432	5992	6888	7812	8456
29	1360	957	1218	1508	1769	2175	2291	2552	2813	3364	4176	5046	5626	6206	7134	8091	8758
30	1406	990	1260	1560	1830	2250	2370	2640	2910	3480	4320	5220	5820	6420	7380	8370	9060
31	1452	1023	1302	1612	1891	2325	2449	2728	3007	3596	4464	5394	6014	6634	7626	8649	9362
32	1498	1056	1344	1664	1952	2400	2528	2816	3104	3712	4608	5568	6208	6848	7872	8928	9664
33	1544	1089	1386	1716	2013	2475	2607	2904	3201	3828	4752	5742	6402	7062	8118	9207	9966
34	1590	1122	1428	1768	2074	2550	2686	2992	3298	3944	4896	5916	6596	7276	8364	9486	10268
35	1636	1155	1470	1820	2135	2625	2765	3080	3395	4060	5040	6090	6790	7490	8610	9765	10570
36	1682	1188	1512	1872	2196	2700	2844	3168	3492	4176	5184	6264	6984	7704	8856	10044	10872

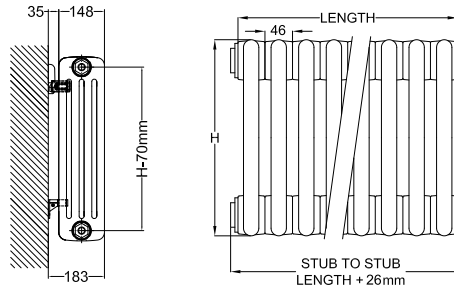
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

4 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.8	0.9	1.1	1.2	1.5	1.6	1.7	1.9	2.2	2.7	3.1	3.4	3.8	4.2	4.7	5.0
WEIGHT (KG) (PER ELEMENT)		0.9	1.2	1.5	1.8	2.2	2.4	2.6	2.9	3.5	4.4	5.3	5.8	6.3	7.1	7.8	8.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	84	112	136	162	200	212	238	264	314	388	464	516	568	644	724	776
3	164	126	168	204	243	300	318	357	396	471	582	696	774	852	966	1086	1164
4	210	168	224	272	324	400	424	476	528	628	776	928	1032	1136	1288	1448	1552
5	256	210	280	340	405	500	530	595	660	785	970	1160	1290	1420	1610	1810	1940
6	302	252	336	408	486	600	636	714	792	942	1164	1392	1548	1704	1932	2172	2328
7	348	294	392	476	567	700	742	833	924	1099	1358	1624	1806	1988	2254	2534	2716
8	394	336	448	544	648	800	848	952	1056	1256	1552	1856	2064	2272	2576	2896	3104
9	440	378	504	612	729	900	954	1071	1188	1413	1746	2088	2322	2556	2898	3258	3492
10	486	420	560	680	810	1000	1060	1190	1320	1570	1940	2320	2580	2840	3220	3620	3880
11	532	462	616	748	891	1100	1166	1309	1452	1727	2134	2552	2838	3124	3542	3982	4268
12	578	504	672	816	972	1200	1272	1428	1584	1884	2328	2784	3096	3408	3864	4344	4656
13	624	546	728	884	1053	1300	1378	1547	1716	2041	2522	3016	3354	3692	4186	4706	5044
14	670	588	784	952	1134	1400	1484	1666	1848	2198	2716	3248	3612	3976	4508	5068	5432
15	716	630	840	1020	1215	1500	1590	1785	1980	2355	2910	3480	3870	4260	4830	5430	5820
16	762	672	896	1088	1296	1600	1696	1904	2112	2512	3104	3712	4128	4544	5152	5792	6208
17	808	714	952	1156	1377	1700	1802	2023	2244	2669	3298	3944	4386	4828	5474	6154	6596
18	854	756	1008	1224	1458	1800	1908	2142	2376	2826	3492	4176	4644	5112	5796	6516	6984
19	900	798	1064	1292	1539	1900	2014	2261	2508	2983	3686	4408	4902	5396	6118	6878	7372
20	946	840	1120	1360	1620	2000	2120	2380	2640	3140	3880	4640	5160	5680	6440	7240	7760
21	992	882	1176	1428	1701	2100	2226	2499	2772	3297	4074	4872	5418	5964	6762	7602	8148
22	1038	924	1232	1496	1782	2200	2332	2618	2904	3454	4268	5104	5676	6248	7084	7964	8536
23	1084	966	1288	1564	1863	2300	2438	2737	3036	3611	4462	5336	5934	6532	7406	8326	8924
24	1130	1008	1344	1632	1944	2400	2544	2856	3168	3768	4656	5568	6192	6816	7728	8688	9312
25	1176	1050	1400	1700	2025	2500	2650	2975	3300	3925	4850	5800	6450	7100	8050	9050	9700
26	1222	1092	1456	1768	2106	2600	2756	3094	3432	4082	5044	6032	6708	7384	8372	9412	10088
27	1268	1134	1512	1836	2187	2700	2862	3213	3564	4239	5238	6264	6966	7668	8694	9774	10476
28	1314	1176	1568	1904	2268	2800	2968	3332	3696	4396	5432	6496	7224	7952	9016	10136	10864
29	1360	1218	1624	1972	2349	2900	3074	3451	3828	4553	5626	6728	7482	8236	9338	10498	11252
30	1406	1260	1680	2040	2430	3000	3180	3570	3960	4710	5820	6960	7740	8520	9660	10860	11640
31	1452	1302	1736	2108	2511	3100	3286	3689	4092	4867	6014	7192	7998	8804	9982	11222	12028
32	1498	1344	1792	2176	2592	3200	3392	3808	4224	5024	6208	7424	8256	9088	10304	11584	12416
33	1544	1386	1848	2244	2673	3300	3498	3927	4356	5181	6402	7656	8514	9372	10626	11946	12804
34	1590	1428	1904	2312	2754	3400	3604	4046	4488	5338	6596	7888	8772	9656	10948	12308	13192
35	1636	1470	1960	2380	2835	3500	3710	4165	4620	5495	6790	8120	9030	9940	11270	12670	13580
36	1682	1512	2016	2448	2916	3600	3816	4284	4752	5652	6984	8352	9288	10224	11592	13032	13968

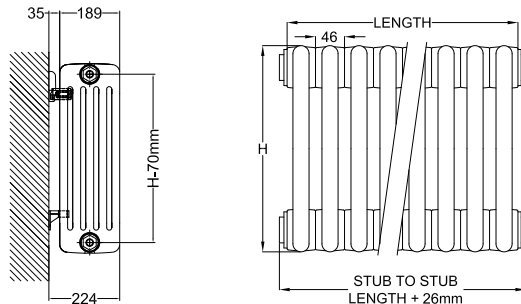
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

5 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.7	3.3	3.9	4.3	4.7	5.3	5.9	6.2
WEIGHT (KG) (PER ELEMENT)		1.2	1.6	1.9	2.3	2.8	3.1	3.3	3.7	4.4	5.5	6.5	7.2	7.9	9.0	10.1	10.8
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	104	134	164	194	238	252	282	310	370	456	546	606	666	760	854	918
3	164	156	201	246	291	357	378	423	465	555	684	819	909	999	1140	1281	1377
4	210	208	268	328	388	476	504	564	620	740	912	1092	1212	1332	1520	1708	1836
5	256	260	335	410	485	595	630	705	775	925	1140	1365	1515	1665	1900	2135	2295
6	302	312	402	492	582	714	756	846	930	1110	1368	1638	1818	1998	2280	2562	2754
7	348	364	469	574	679	833	882	987	1085	1295	1596	1911	2121	2331	2660	2989	3213
8	394	416	536	656	776	952	1008	1128	1240	1480	1824	2184	2424	2664	3040	3416	3672
9	440	468	603	738	873	1071	1134	1269	1395	1665	2052	2457	2727	2997	3420	3843	4131
10	486	520	670	820	970	1190	1260	1410	1550	1850	2280	2730	3030	3330	3800	4270	4590
11	532	572	737	902	1067	1309	1386	1551	1705	2035	2508	3003	3333	3663	4180	4697	5049
12	578	624	804	984	1164	1428	1512	1692	1860	2220	2736	3276	3636	3996	4560	5124	5508
13	624	676	871	1066	1261	1547	1638	1833	2015	2405	2964	3549	3939	4329	4940	5551	5967
14	670	728	938	1148	1358	1666	1764	1974	2170	2590	3192	3822	4242	4662	5320	5978	6426
15	716	780	1005	1230	1455	1785	1890	2115	2325	2775	3420	4095	4545	4995	5700	6405	6885
16	762	832	1072	1312	1552	1904	2016	2256	2480	2960	3648	4368	4848	5328	6080	6832	7344
17	808	884	1139	1394	1649	2023	2142	2397	2635	3145	3876	4641	5151	5661	6460	7259	7803
18	854	936	1206	1476	1746	2142	2268	2538	2790	3330	4104	4914	5454	5994	6840	7686	8262
19	900	988	1273	1558	1843	2261	2394	2679	2945	3515	4332	5187	5757	6327	7220	8113	8721
20	946	1040	1340	1640	1940	2380	2520	2820	3100	3700	4560	5460	6060	6660	7600	8540	9180
21	992	1092	1407	1722	2037	2499	2646	2961	3255	3885	4788	5733	6363	6993	7980	8967	9639
22	1038	1144	1474	1804	2134	2618	2772	3102	3410	4070	5016	6006	6666	7326	8360	9394	10098
23	1084	1196	1541	1886	2231	2737	2898	3243	3565	4255	5244	6279	6969	7659	8740	9821	10557
24	1130	1248	1608	1968	2328	2856	3024	3384	3720	4440	5472	6552	7272	7992	9120	10248	11016
25	1176	1300	1675	2050	2425	2975	3150	3525	3875	4625	5700	6825	7575	8325	9500	10675	11475
26	1222	1352	1742	2132	2522	3094	3276	3666	4030	4810	5928	7098	7878	8658	9880	11102	11934
27	1268	1404	1809	2214	2619	3213	3402	3807	4185	4995	6156	7371	8181	8991	10260	11529	12393
28	1314	1456	1876	2296	2716	3332	3528	3948	4340	5180	6384	7644	8484	9324	10640	11956	12852
29	1360	1508	1943	2378	2813	3451	3654	4089	4495	5365	6612	7917	8787	9657	11020	12383	13311
30	1406	1560	2010	2460	2910	3570	3780	4230	4650	5550	6840	8190	9090	9990	11400	12810	13770
31	1452	1612	2077	2542	3007	3689	3906	4371	4805	5735	7068	8463	9393	10323	11780	13237	14229
32	1498	1664	2144	2624	3104	3808	4032	4512	4960	5920	7296	8736	9696	10656	12160	13664	14688
33	1544	1716	2211	2706	3201	3927	4158	4653	5115	6105	7524	9009	9999	10989	12540	14091	15147
34	1590	1768	2278	2788	3298	4046	4284	4794	5270	6290	7752	9282	10302	11322	12920	14518	15606
35	1636	1820	2345	2870	3395	4165	4410	4935	5425	6475	7980	9555	10605	11655	13300	14945	16065
36	1682	1872	2412	2952	3492	4284	4536	5076	5580	6660	8208	9828	10908	11988	13680	15372	16524

Greyed out sizes indicate weight of over 100kg

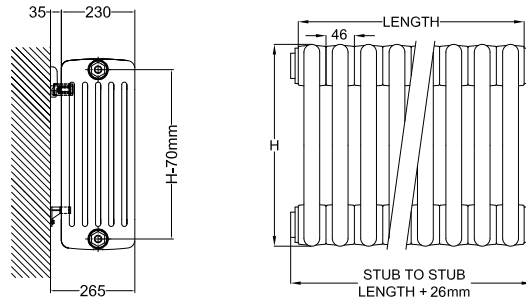
06/

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

6 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.1	1.3	1.6	1.8	2.2	2.3	2.5	2.8	3.3	4.0	4.7	5.2	5.7	6.4	7.2	7.7
WEIGHT (KG) (PER ELEMENT)		1.5	1.9	2.3	2.7	3.4	3.8	4.0	4.4	5.2	6.5	7.7	8.6	9.5	10.8	12.1	13.3
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	124	162	198	236	288	306	342	378	448	552	658	728	798	904	1012	1084
3	164	186	243	297	354	432	459	513	567	672	828	987	1092	1197	1356	1518	1626
4	210	248	324	396	472	576	612	684	756	896	1104	1316	1456	1596	1808	2024	2168
5	256	310	405	495	590	720	765	855	945	1120	1380	1645	1820	1995	2260	2530	2710
6	302	372	486	594	708	864	918	1026	1134	1344	1656	1974	2184	2394	2712	3036	3252
7	348	434	567	693	826	1008	1071	1197	1323	1568	1932	2303	2548	2793	3164	3542	3794
8	394	496	648	792	944	1152	1224	1368	1512	1792	2208	2632	2912	3192	3616	4048	4336
9	440	558	729	891	1062	1296	1377	1539	1701	2016	2484	2961	3276	3591	4068	4554	4878
10	486	620	810	990	1180	1440	1530	1710	1890	2240	2760	3290	3640	3990	4520	5060	5420
11	532	682	891	1089	1298	1584	1683	1881	2079	2464	3036	3619	4004	4389	4972	5566	5962
12	578	744	972	1188	1416	1728	1836	2052	2268	2688	3312	3948	4368	4788	5424	6072	6504
13	624	806	1053	1287	1534	1872	1989	2223	2457	2912	3588	4277	4732	5187	5876	6578	7046
14	670	868	1134	1386	1652	2016	2142	2394	2646	3136	3864	4606	5096	5586	6328	7084	7588
15	716	930	1215	1485	1770	2160	2295	2565	2835	3360	4140	4935	5460	5985	6780	7590	8130
16	762	992	1296	1584	1888	2304	2448	2736	3024	3584	4416	5264	5824	6384	7232	8096	8672
17	808	1054	1377	1683	2006	2448	2601	2907	3213	3808	4692	5593	6188	6783	7684	8602	9214
18	854	1116	1458	1782	2124	2592	2754	3078	3402	4032	4968	5922	6552	7182	8136	9108	9756
19	900	1178	1539	1881	2242	2736	2907	3249	3591	4256	5244	6251	6916	7581	8588	9614	10298
20	946	1240	1620	1980	2360	2880	3060	3420	3780	4480	5520	6580	7280	7980	9040	10120	10840
21	992	1302	1701	2079	2478	3024	3213	3591	3969	4704	5796	6909	7644	8379	9492	10626	11382
22	1038	1364	1782	2178	2596	3168	3366	3762	4158	4928	6072	7238	8008	8778	9944	11132	11924
23	1084	1426	1863	2277	2714	3312	3519	3933	4347	5152	6348	7567	8372	9177	10396	11638	12466
24	1130	1488	1944	2376	2832	3456	3672	4104	4536	5376	6624	7896	8736	9576	10848	12144	13008
25	1176	1550	2025	2475	2950	3600	3825	4275	4725	5600	6900	8225	9100	9975	11300	12650	13550
26	1222	1612	2106	2574	3068	3744	3978	4446	4914	5824	7176	8554	9464	10374	11752	13156	14092
27	1268	1674	2187	2673	3186	3888	4131	4617	5103	6048	7452	8883	9828	10773	12204	13662	14634
28	1314	1736	2268	2772	3304	4032	4284	4788	5292	6272	7728	9212	10192	11172	12656	14168	15176
29	1360	1798	2349	2871	3422	4176	4437	4959	5481	6496	8004	9541	10556	11571	13108	14674	15718
30	1406	1860	2430	2970	3540	4320	4590	5130	5670	6720	8280	9870	10920	11970	13560	15180	16260
31	1452	1922	2511	3069	3658	4464	4743	5301	5859	6944	8556	10199	11284	12369	14012	15686	16802
32	1498	1984	2592	3168	3776	4608	4896	5472	6048	7168	8832	10528	11648	12768	14464	16192	17344
33	1544	2046	2673	3267	3894	4752	5049	5643	6237	7392	9108	10857	12012	13167	14916	16698	17886
34	1590	2108	2754	3366	4012	4896	5202	5814	6426	7616	9384	11186	12376	13566	15368	17204	18428
35	1636	2170	2835	3465	4130	5040	5355	5985	6615	7840	9660	11515	12740	13965	15820	17710	18970
36	1682	2232	2916	3564	4248	5184	5508	6156	6804	8064	9936	11844	13104	14364	16272	18216	19512

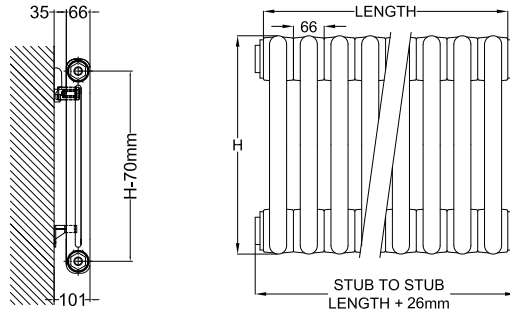
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

2 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.5	1.7	1.8	2.1	2.2	2.4	2.5
WEIGHT (KG) (PER ELEMENT)		0.6	0.7	0.9	1.0	1.2	1.2	1.5	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.4
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	54	68	82	96	118	126	142	158	190	238	288	324	360	414	470	506
3	164	81	102	123	144	177	189	213	237	285	357	432	486	540	621	705	759
4	210	108	136	164	192	236	252	284	316	380	476	576	648	720	828	940	1012
5	256	135	170	205	240	295	315	355	395	475	595	720	810	900	1035	1175	1265
6	302	162	204	246	288	354	378	426	474	570	714	864	972	1080	1242	1410	1518
7	348	189	238	287	336	413	441	497	553	665	833	1008	1134	1260	1449	1645	1771
8	394	216	272	328	384	472	504	568	632	760	952	1152	1296	1440	1656	1880	2024
9	440	243	306	369	432	531	567	639	711	855	1071	1296	1458	1620	1863	2115	2277
10	486	270	340	410	480	590	630	710	790	950	1190	1440	1620	1800	2070	2350	2530
11	532	297	374	451	528	649	693	781	869	1045	1309	1584	1782	1980	2277	2585	2783
12	578	324	408	492	576	708	756	852	948	1140	1428	1728	1944	2160	2484	2820	3036
13	624	351	442	533	624	767	819	923	1027	1235	1547	1872	2106	2340	2691	3055	3289
14	670	378	476	574	672	826	882	994	1106	1330	1666	2016	2268	2520	2898	3290	3542
15	716	405	510	615	720	885	945	1065	1185	1425	1785	2160	2430	2700	3105	3525	3795
16	762	432	544	656	768	944	1008	1136	1264	1520	1904	2304	2592	2880	3312	3760	4048
17	808	459	578	697	816	1003	1071	1207	1343	1615	2023	2448	2754	3060	3519	3995	4301
18	854	486	612	738	864	1062	1134	1278	1422	1710	2142	2592	2916	3240	3726	4230	4554
19	900	513	646	779	912	1121	1197	1349	1501	1805	2261	2736	3078	3420	3933	4465	4807
20	946	540	680	820	960	1180	1260	1420	1580	1900	2380	2880	3240	3600	4140	4700	5060
21	992	567	714	861	1008	1239	1323	1491	1659	1995	2499	3024	3402	3780	4347	4935	5313
22	1038	594	748	902	1056	1298	1386	1562	1738	2090	2618	3168	3564	3960	4554	5170	5566
23	1084	621	782	943	1104	1357	1449	1633	1817	2185	2737	3312	3726	4140	4761	5405	5819
24	1130	648	816	984	1152	1416	1512	1704	1896	2280	2856	3456	3888	4320	4968	5640	6072
25	1176	675	850	1025	1200	1475	1575	1775	1975	2375	2975	3600	4050	4500	5175	5875	6325
26	1222	702	884	1066	1248	1534	1638	1846	2054	2470	3094	3744	4212	4680	5382	6110	6578
27	1268	729	918	1107	1296	1593	1701	1917	2133	2565	3213	3888	4374	4860	5589	6345	6831
28	1314	756	952	1148	1344	1652	1764	1988	2212	2660	3332	4032	4536	5040	5796	6580	7084
29	1360	783	986	1189	1392	1711	1827	2059	2291	2755	3451	4176	4698	5220	6003	6815	7337
30	1406	810	1020	1230	1440	1770	1890	2130	2370	2850	3570	4320	4860	5400	6210	7050	7590
31	1452	837	1054	1271	1488	1829	1953	2201	2449	2945	3689	4464	5022	5580	6417	7285	7843
32	1498	864	1088	1312	1536	1888	2016	2272	2528	3040	3808	4608	5184	5760	6624	7520	8096
33	1544	891	1122	1353	1584	1947	2079	2343	2607	3135	3927	4752	5346	5940	6831	7755	8349
34	1590	918	1156	1394	1632	2006	2142	2414	2686	3230	4046	4896	5508	6120	7038	7990	8602
35	1636	945	1190	1435	1680	2065	2205	2485	2765	3325	4165	5040	5670	6300	7245	8225	8855
36	1682	972	1224	1476	1728	2124	2268	2556	2844	3420	4284	5184	5832	6480	7452	8460	9108

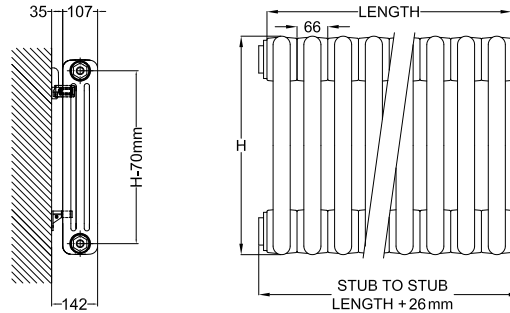
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

3 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.7	0.8	0.9	1.0	1.2	1.2	1.4	1.5	1.7	2.1	2.4	2.6	2.9	3.3	3.7	3.9
WEIGHT (KG) (PER ELEMENT)		0.8	1.0	1.3	1.5	1.8	1.8	2.2	2.4	2.8	3.4	4.1	4.5	4.9	5.4	6.1	6.5
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	74	94	112	130	160	170	192	214	258	324	392	442	490	566	644	700
3	164	111	141	168	195	240	255	288	321	387	486	588	663	735	849	966	1050
4	210	148	188	224	260	320	340	384	428	516	648	784	884	980	1132	1288	1400
5	256	185	235	280	325	400	425	480	535	645	810	980	1105	1225	1415	1610	1750
6	302	222	282	336	390	480	510	576	642	774	972	1176	1326	1470	1698	1932	2100
7	348	259	329	392	455	560	595	672	749	903	1134	1372	1547	1715	1981	2254	2450
8	394	296	376	448	520	640	680	768	856	1032	1296	1568	1768	1960	2264	2576	2800
9	440	333	423	504	585	720	765	864	963	1161	1458	1764	1989	2205	2547	2898	3150
10	486	370	470	560	650	800	850	960	1070	1290	1620	1960	2210	2450	2830	3220	3500
11	532	407	517	616	715	880	935	1056	1177	1419	1782	2156	2431	2695	3113	3542	3850
12	578	444	564	672	780	960	1020	1152	1284	1548	1944	2352	2652	2940	3396	3864	4200
13	624	481	611	728	845	1040	1105	1248	1391	1677	2106	2548	2873	3185	3679	4186	4550
14	670	518	658	784	910	1120	1190	1344	1498	1806	2268	2744	3094	3430	3962	4508	4900
15	716	555	705	840	975	1200	1275	1440	1605	1935	2430	2940	3315	3675	4245	4830	5250
16	762	592	752	896	1040	1280	1360	1536	1712	2064	2592	3136	3536	3920	4528	5152	5600
17	808	629	799	952	1105	1360	1445	1632	1819	2193	2754	3332	3757	4165	4811	5474	5950
18	854	666	846	1008	1170	1440	1530	1728	1926	2322	2916	3528	3978	4410	5094	5796	6300
19	900	703	893	1064	1235	1520	1615	1824	2033	2451	3078	3724	4199	4655	5377	6118	6650
20	946	740	940	1120	1300	1600	1700	1920	2140	2580	3240	3920	4420	4900	5660	6440	7000
21	992	777	987	1176	1365	1680	1785	2016	2247	2709	3402	4116	4641	5145	5943	6762	7350
22	1038	814	1034	1232	1430	1760	1870	2112	2354	2838	3564	4312	4862	5390	6226	7084	7700
23	1084	851	1081	1288	1495	1840	1955	2208	2461	2967	3726	4508	5083	5635	6509	7406	8050
24	1130	888	1128	1344	1560	1920	2040	2304	2568	3096	3888	4704	5304	5880	6792	7728	8400
25	1176	925	1175	1400	1625	2000	2125	2400	2675	3225	4050	4900	5525	6125	7075	8050	8750
26	1222	962	1222	1456	1690	2080	2210	2496	2782	3354	4212	5096	5746	6370	7358	8372	9100
27	1268	999	1269	1512	1755	2160	2295	2592	2889	3483	4374	5292	5967	6615	7641	8694	9450
28	1314	1036	1316	1568	1820	2240	2380	2688	2996	3612	4536	5488	6188	6860	7924	9016	9800
29	1360	1073	1363	1624	1885	2320	2465	2784	3103	3741	4698	5684	6409	7105	8207	9338	10150
30	1406	1110	1410	1680	1950	2400	2550	2880	3210	3870	4860	5880	6630	7350	8490	9660	10500
31	1452	1147	1457	1736	2015	2480	2635	2976	3317	3999	5022	6076	6851	7595	8773	9982	10850
32	1498	1184	1504	1792	2080	2560	2720	3072	3424	4128	5184	6272	7072	7840	9056	10304	11200
33	1544	1221	1551	1848	2145	2640	2805	3168	3531	4257	5346	6468	7293	8085	9339	10626	11550
34	1590	1258	1598	1904	2210	2720	2890	3264	3638	4386	5508	6664	7514	8330	9622	10948	11900
35	1636	1295	1645	1960	2275	2800	2975	3360	3745	4515	5670	6860	7735	8575	9905	11270	12250
36	1682	1332	1692	2016	2340	2880	3060	3456	3852	4644	5832	7056	7956	8820	10188	11592	12600

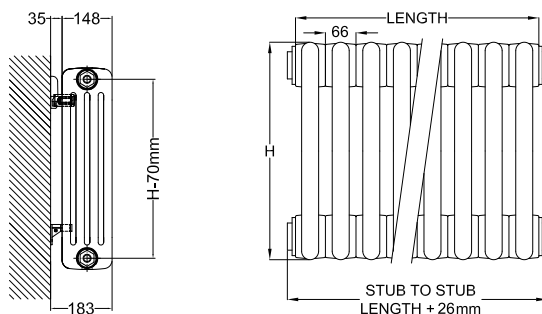
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

4 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.9	1.0	1.2	1.3	1.6	1.6	1.8	2.0	2.3	2.8	3.2	3.5	3.8	4.3	4.8	5.1
WEIGHT (KG) (PER ELEMENT)		1.0	1.3	1.6	1.9	2.3	2.4	2.7	3.0	3.6	4.5	5.4	5.9	6.4	7.2	7.9	8.5
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	92	120	148	174	214	230	260	290	348	436	524	588	650	742	836	900
3	164	138	180	222	261	321	345	390	435	522	654	786	882	975	1113	1254	1350
4	210	184	240	296	348	428	460	520	580	696	872	1048	1176	1300	1484	1672	1800
5	256	230	300	370	435	535	575	650	725	870	1090	1310	1470	1625	1855	2090	2250
6	302	276	360	444	522	642	690	780	870	1044	1308	1572	1764	1950	2226	2508	2700
7	348	322	420	518	609	749	805	910	1015	1218	1526	1834	2058	2275	2597	2926	3150
8	394	368	480	592	696	856	920	1040	1160	1392	1744	2096	2352	2600	2968	3344	3600
9	440	414	540	666	783	963	1035	1170	1305	1566	1962	2358	2646	2925	3339	3762	4050
10	486	460	600	740	870	1070	1150	1300	1450	1740	2180	2620	2940	3250	3710	4180	4500
11	532	506	660	814	957	1177	1265	1430	1595	1914	2398	2882	3234	3575	4081	4598	4950
12	578	552	720	888	1044	1284	1380	1560	1740	2088	2616	3144	3528	3900	4452	5016	5400
13	624	598	780	962	1131	1391	1495	1690	1885	2262	2834	3406	3822	4225	4823	5434	5850
14	670	644	840	1036	1218	1498	1610	1820	2030	2436	3052	3668	4116	4550	5194	5852	6300
15	716	690	900	1110	1305	1605	1725	1950	2175	2610	3270	3930	4410	4875	5565	6270	6750
16	762	736	960	1184	1392	1712	1840	2080	2320	2784	3488	4192	4704	5200	5936	6688	7200
17	808	782	1020	1258	1479	1819	1955	2210	2465	2958	3706	4454	4998	5525	6307	7106	7650
18	854	828	1080	1332	1566	1926	2070	2340	2610	3132	3924	4716	5292	5850	6678	7524	8100
19	900	874	1140	1406	1653	2033	2185	2470	2755	3306	4142	4978	5586	6175	7049	7942	8550
20	946	920	1200	1480	1740	2140	2300	2600	2900	3480	4360	5240	5880	6500	7420	8360	9000
21	992	966	1260	1554	1827	2247	2415	2730	3045	3654	4578	5502	6174	6825	7791	8778	9450
22	1038	1012	1320	1628	1914	2354	2530	2860	3190	3828	4796	5764	6468	7150	8162	9196	9900
23	1084	1058	1380	1702	2001	2461	2645	2990	3335	4002	5014	6026	6762	7475	8533	9614	10350
24	1130	1104	1440	1776	2088	2568	2760	3120	3480	4176	5232	6288	7056	7800	8904	10032	10800
25	1176	1150	1500	1850	2175	2675	2875	3250	3625	4350	5450	6550	7350	8125	9275	10450	11250
26	1222	1196	1560	1924	2262	2782	2990	3380	3770	4524	5668	6812	7644	8450	9646	10868	11700
27	1268	1242	1620	1998	2349	2889	3105	3510	3915	4698	5886	7074	7938	8775	10017	11286	12150
28	1314	1288	1680	2072	2436	2996	3220	3640	4060	4872	6104	7336	8232	9100	10388	11704	12600
29	1360	1334	1740	2146	2523	3103	3335	3770	4205	5046	6322	7598	8526	9425	10759	12122	13050
30	1406	1380	1800	2220	2610	3210	3450	3900	4350	5220	6540	7860	8820	9750	11130	12540	13500
31	1452	1426	1860	2294	2697	3317	3565	4030	4495	5394	6758	8122	9114	10075	11501	12958	13950
32	1498	1472	1920	2368	2784	3424	3680	4160	4640	5568	6976	8384	9408	10400	11872	13376	14400
33	1544	1518	1980	2442	2871	3531	3795	4290	4785	5742	7194	8646	9702	10725	12243	13794	14850
34	1590	1564	2040	2516	2958	3638	3910	4420	4930	5916	7412	8908	9996	11050	12614	14212	15300
35	1636	1610	2100	2590	3045	3745	4025	4550	5075	6090	7630	9170	10290	11375	12985	14630	15750
36	1682	1656	2160	2664	3132	3852	4140	4680	5220	6264	7848	9432	10584	11700	13356	15048	16200

Greyed out sizes indicate weight of over 100kg

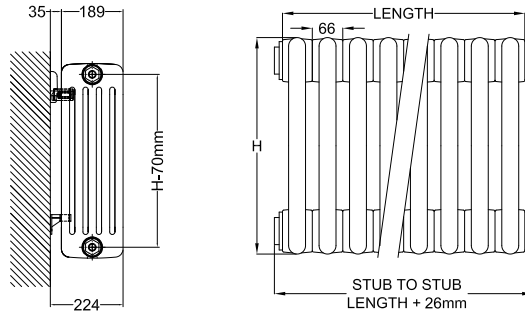
10 /

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

5 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.1	1.3	1.5	1.7	1.9	1.9	2.2	2.4	2.8	3.4	4.0	4.4	4.8	5.4	6.0	6.3
WEIGHT (KG) (PER ELEMENT)		1.3	1.7	2.0	2.4	2.9	3.1	3.4	3.8	4.5	5.6	6.6	7.3	8.0	9.1	10.2	10.9
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	110	144	176	208	254	272	308	342	410	512	616	690	764	874	986	1066
3	164	165	216	264	312	381	408	462	513	615	768	924	1035	1146	1311	1479	1599
4	210	220	288	352	416	508	544	616	684	820	1024	1232	1380	1528	1748	1972	2132
5	256	275	360	440	520	635	680	770	855	1025	1280	1540	1725	1910	2185	2465	2665
6	302	330	432	528	624	762	816	924	1026	1230	1536	1848	2070	2292	2622	2958	3198
7	348	385	504	616	728	889	952	1078	1197	1435	1792	2156	2415	2674	3059	3451	3731
8	394	440	576	704	832	1016	1088	1232	1368	1640	2048	2464	2760	3056	3496	3944	4264
9	440	495	648	792	936	1143	1224	1386	1539	1845	2304	2772	3105	3438	3933	4437	4797
10	486	550	720	880	1040	1270	1360	1540	1710	2050	2560	3080	3450	3820	4370	4930	5330
11	532	605	792	968	1144	1397	1496	1694	1881	2255	2816	3388	3795	4202	4807	5423	5863
12	578	660	864	1056	1248	1524	1632	1848	2052	2460	3072	3696	4140	4584	5244	5916	6396
13	624	715	936	1144	1352	1651	1768	2002	2223	2665	3328	4004	4485	4966	5681	6409	6929
14	670	770	1008	1232	1456	1778	1904	2156	2394	2870	3584	4312	4830	5348	6118	6902	7462
15	716	825	1080	1320	1560	1905	2040	2310	2565	3075	3840	4620	5175	5730	6555	7395	7995
16	762	880	1152	1408	1664	2032	2176	2464	2736	3280	4096	4928	5520	6112	6992	7888	8528
17	808	935	1224	1496	1768	2159	2312	2618	2907	3485	4352	5236	5865	6494	7429	8381	9061
18	854	990	1296	1584	1872	2286	2448	2772	3078	3690	4608	5544	6210	6876	7866	8874	9594
19	900	1045	1368	1672	1976	2413	2584	2926	3249	3895	4864	5852	6555	7258	8303	9367	10127
20	946	1100	1440	1760	2080	2540	2720	3080	3420	4100	5120	6160	6900	7640	8740	9860	10660
21	992	1155	1512	1848	2184	2667	2856	3234	3591	4305	5376	6468	7245	8022	9177	10353	11193
22	1038	1210	1584	1936	2288	2794	2992	3388	3762	4510	5632	6776	7590	8404	9614	10846	11726
23	1084	1265	1656	2024	2392	2921	3128	3542	3933	4715	5888	7084	7935	8786	10051	11339	12259
24	1130	1320	1728	2112	2496	3048	3264	3696	4104	4920	6144	7392	8280	9168	10488	11832	12792
25	1176	1375	1800	2200	2600	3175	3400	3850	4275	5125	6400	7700	8625	9550	10925	12325	13325
26	1222	1430	1872	2288	2704	3302	3536	4004	4446	5330	6656	8008	8970	9932	11362	12818	13858
27	1268	1485	1944	2376	2808	3429	3672	4158	4617	5535	6912	8316	9315	10314	11799	13311	14391
28	1314	1540	2016	2464	2912	3556	3808	4312	4788	5740	7168	8624	9660	10696	12236	13804	14924
29	1360	1595	2088	2552	3016	3683	3944	4466	4959	5945	7424	8932	10005	11078	12673	14297	15457
30	1406	1650	2160	2640	3120	3810	4080	4620	5130	6150	7680	9240	10350	11460	13110	14790	15990
31	1452	1705	2232	2728	3224	3937	4216	4774	5301	6355	7936	9548	10695	11842	13547	15283	16523
32	1498	1760	2304	2816	3328	4064	4352	4928	5472	6560	8192	9856	11040	12224	13984	15776	17056
33	1544	1815	2376	2904	3432	4191	4488	5082	5643	6765	8448	10164	11385	12606	14421	16269	17589
34	1590	1870	2448	2992	3536	4318	4624	5236	5814	6970	8704	10472	11730	12988	14858	16762	18122
35	1636	1925	2520	3080	3640	4445	4760	5390	5985	7175	8960	10780	12075	13370	15295	17255	18655
36	1682	1980	2592	3168	3744	4572	4896	5544	6156	7380	9216	11088	12420	13752	15732	17748	19188

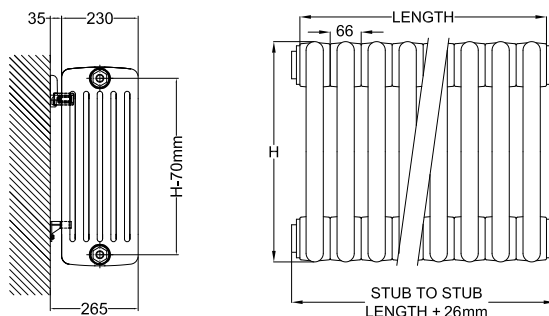
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

6 Column

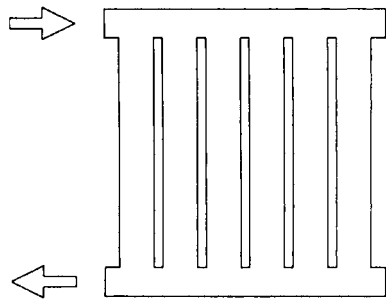


		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.2	1.4	1.7	1.9	2.3	2.3	2.6	2.9	3.4	4.1	4.8	5.3	5.8	6.5	7.2	7.8
WEIGHT (KG) (PER ELEMENT)		1.6	2.0	2.4	2.8	3.5	3.8	4.1	4.5	5.3	6.6	7.8	8.7	9.6	10.9	12.2	13.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	134	174	212	252	310	330	372	416	496	618	744	830	914	1040	1168	1258
3	164	201	261	318	378	465	495	558	624	744	927	1116	1245	1371	1560	1752	1887
4	210	268	348	424	504	620	660	744	832	992	1236	1488	1660	1828	2080	2336	2516
5	256	335	435	530	630	775	825	930	1040	1240	1545	1860	2075	2285	2600	2920	3145
6	302	402	522	636	756	930	990	1116	1248	1488	1854	2232	2490	2742	3120	3504	3774
7	348	469	609	742	882	1085	1155	1302	1456	1736	2163	2604	2905	3199	3640	4088	4403
8	394	536	696	848	1008	1240	1320	1488	1664	1984	2472	2976	3320	3656	4160	4672	5032
9	440	603	783	954	1134	1395	1485	1674	1872	2232	2781	3348	3735	4113	4680	5256	5661
10	486	670	870	1060	1260	1550	1650	1860	2080	2480	3090	3720	4150	4570	5200	5840	6290
11	532	737	957	1166	1386	1705	1815	2046	2288	2728	3399	4092	4565	5027	5720	6424	6919
12	578	804	1044	1272	1512	1860	1980	2232	2496	2976	3708	4464	4980	5484	6240	7008	7548
13	624	871	1131	1378	1638	2015	2145	2418	2704	3224	4017	4836	5395	5941	6760	7592	8177
14	670	938	1218	1484	1764	2170	2310	2604	2912	3472	4326	5208	5810	6398	7280	8176	8806
15	716	1005	1305	1590	1890	2325	2475	2790	3120	3720	4635	5580	6225	6855	7800	8760	9435
16	762	1072	1392	1696	2016	2480	2640	2976	3328	3968	4944	5952	6640	7312	8320	9344	10064
17	808	1139	1479	1802	2142	2635	2805	3162	3536	4216	5253	6324	7055	7769	8840	9928	10693
18	854	1206	1566	1908	2268	2790	2970	3348	3744	4464	5562	6696	7470	8226	9360	10512	11322
19	900	1273	1653	2014	2394	2945	3135	3534	3952	4712	5871	7068	7885	8683	9880	11096	11951
20	946	1340	1740	2120	2520	3100	3300	3720	4160	4960	6180	7440	8300	9140	10400	11680	12580
21	992	1407	1827	2226	2646	3255	3465	3906	4368	5208	6489	7812	8715	9597	10920	12264	13209
22	1038	1474	1914	2332	2772	3410	3630	4092	4576	5456	6798	8184	9130	10054	11440	12848	13838
23	1084	1541	2001	2438	2898	3565	3795	4278	4784	5704	7107	8556	9545	10511	11960	13432	14467
24	1130	1608	2088	2544	3024	3720	3960	4464	4992	5952	7416	8928	9960	10968	12480	14016	15096
25	1176	1675	2175	2650	3150	3875	4125	4650	5200	6200	7725	9300	10375	11425	13000	14600	15725
26	1222	1742	2262	2756	3276	4030	4290	4836	5408	6448	8034	9672	10790	11882	13520	15184	16354
27	1268	1809	2349	2862	3402	4185	4455	5022	5616	6696	8343	10044	11205	12339	14040	15768	16983
28	1314	1876	2436	2968	3528	4340	4620	5208	5824	6944	8652	10416	11620	12796	14560	16352	17612
29	1360	1943	2523	3074	3654	4495	4785	5394	6032	7192	8961	10788	12035	13253	15080	16936	18241
30	1406	2010	2610	3180	3780	4650	4950	5580	6240	7440	9270	11160	12450	13710	15600	17520	18870
31	1452	2077	2697	3286	3906	4805	5115	5766	6448	7688	9579	11532	12865	14167	16120	18104	19499
32	1498	2144	2784	3392	4032	4960	5280	5952	6656	7936	9888	11904	13280	14624	16640	18688	20128
33	1544	2211	2871	3498	4158	5115	5445	6138	6864	8184	10197	12276	13695	15081	17160	19272	20757
34	1590	2278	2958	3604	4284	5270	5610	6324	7072	8432	10506	12648	14110	15538	17680	19856	21386
35	1636	2345	3045	3710	4410	5425	5775	6510	7280	8680	10815	13020	14525	15995	18200	20440	22015
36	1682	2412	3132	3816	4536	5580	5940	6696	7488	8928	11124	13392	14940	16452	18720	21024	22644

Greyed out sizes indicate weight of over 100kg

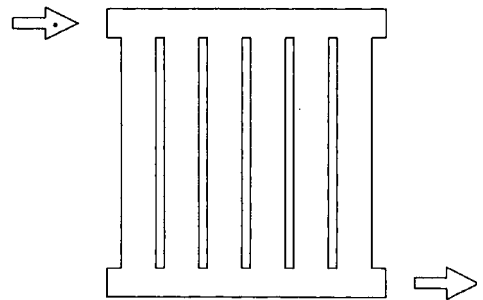
Connection Options

TBSE



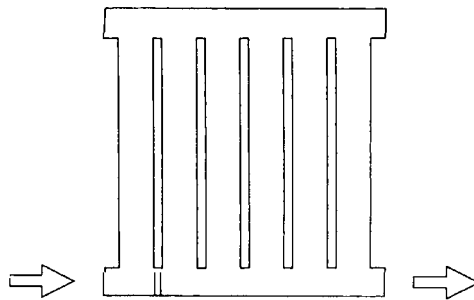
SIDE CONNECTIONS

TBOE



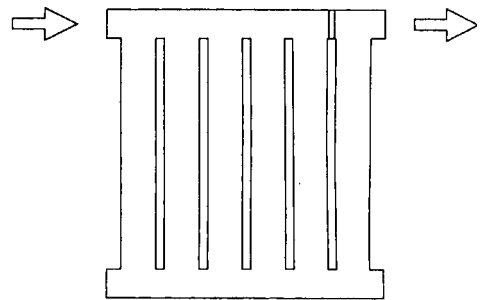
OPPOSITE CONNECTIONS

BOE (BD)



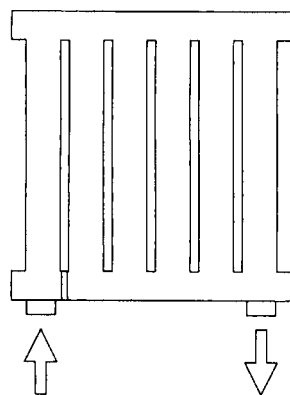
BOTTOM CONNECTIONS - LESS THAN 15 SECTIONS OR GREATER THAN 1 METRE HIGH WILL REQUIRE FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

TOE



TOP CONNECTIONS WITH FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

(BOE) (EF)



BOTTOM CONNECTIONS WITH 1/2" BUSHES
WITH FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

Connection sizes available

1/2" (15mm)

3/4" (20 mm)

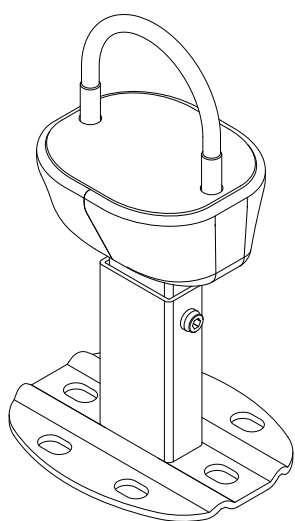
1" (25mm)

Note: Flow and return positions must be specified at point of order

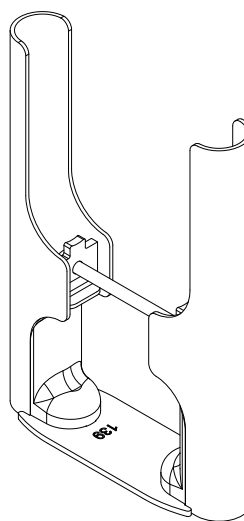
Mounting Options

Any feet must be specified at the time of order and are available at a minimum of 100mm high.

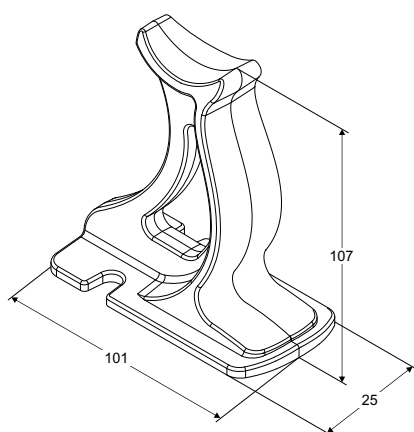
Multicolumn radiators mounted on feet cannot be freestanding when the total height including feet exceeds 500mm. For any further queries, please contact the Merriott Sales Office.



Loose foot



Double loose foot



Design foot

Correction Factors

The outputs quoted in this brochure are based on a ΔT of 50°C.

Listed below are the multiplying factors needed to calculate the output at other Delta Ts (ΔT s) between 10°C and 80°C. This is done by multiplying your heat output with the appropriate correction factor selected from the table below. Please note more detailed correction factors for multicolumn products are available from your local Merriott contact.

EXAMPLE:

Required Room Temperature = 21°C, Low Temperature = 86°C, Return Temperature = 72°C

SOLUTION:

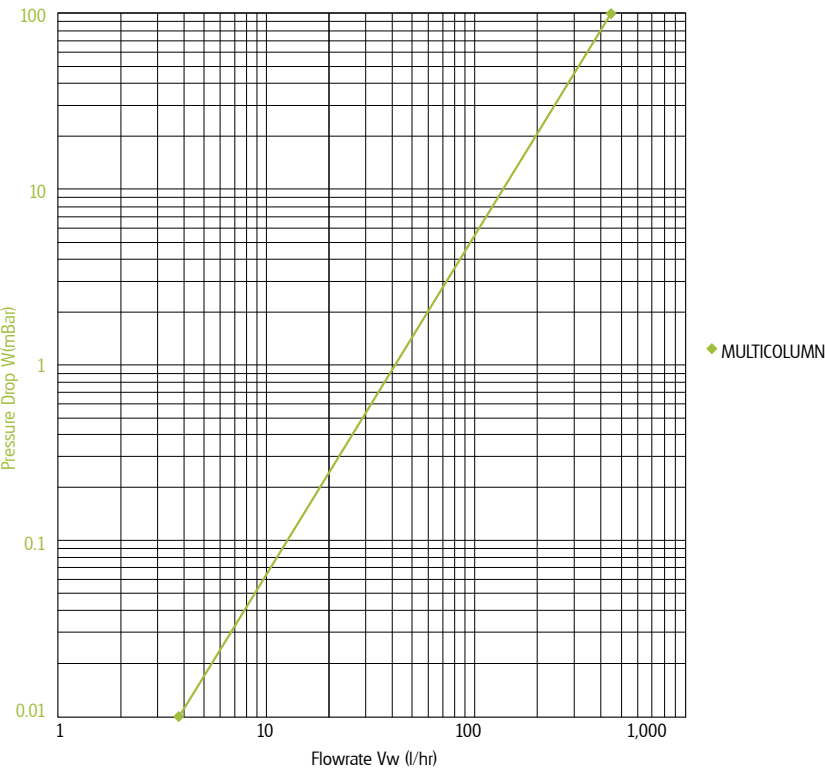
Mean Water Temperature = $(T_{\text{Flow}} + T_{\text{Return}}) / 2 = (86 + 72) / 2 = 79^\circ\text{C}$

$\Delta T = \text{Mean Water Temperature} - \text{Required Room Temperature} = 79 - 21 = 58^\circ\text{C}$

From the tables below, the output for a Multicolumn at $\Delta T 58^\circ\text{C}$ is 1.216 times the output stated at $\Delta T 50^\circ\text{C}$.

$\Delta T(^{\circ}\text{C})$	Based on $\Delta T50$	$\Delta T(^{\circ}\text{C})$	Based on $\Delta T50$
10	0.126	46	0.898
11	0.142	47	0.923
12	0.159	48	0.949
13	0.176	49	0.974
14	0.194	50	1.000
15	0.212	51	1.026
16	0.230	52	1.052
17	0.249	53	1.078
18	0.268	54	1.104
19	0.287	55	1.131
20	0.307	56	1.157
21	0.327	57	1.184
22	0.347	58	1.211
23	0.368	59	1.238
24	0.388	60	1.265
25	0.409	61	1.292
26	0.431	62	1.320
27	0.452	63	1.347
28	0.474	64	1.375
29	0.496	65	1.403
30	0.518	66	1.430
31	0.540	67	1.458
32	0.563	68	1.487
33	0.585	69	1.515
34	0.608	70	1.543
35	0.632	71	1.572
36	0.655	72	1.600
37	0.678	73	1.629
38	0.702	74	1.658
39	0.726	75	1.687
40	0.750	76	1.716
41	0.774	77	1.745
42	0.799	78	1.774
43	0.823	79	1.804
44	0.848	80	1.833
45	0.873		

Resistance Diagram



How to calculate the resistance of a Multicolumn at ΔT 50°C

Radiator type: MMC3 1012mm LONG x 600mm HIGH

Output @ ΔT 50°C: 1342W (flow/return – 75/65°C)

If the output is not at ΔT 50°C, please use the correction factor table on the previous page to get the correct output.

C –	Specific Heat Constant (always 4187 J/kg°C)			
Q –	(m)	x	(C)	x (ΔT)
Output –	(flow rate)	x	(Constant)	x (difference between flow and return temp)
Watts –	(l/s)		(J/kg°C)	(°C)
2703 –	(m)		(4187)	(10)

Therefore

- m - 1342 / ((4187) X (10))
- m - 0.0320515 (L/S)
- X 3600 (L/H)
- m - 115.4 L/H

Please refer to the resistance diagram which gives a value of approx 9.5mBar.

Range Overview

Product Description

Merriott Multicolumns offer outputs ranging from 24 watts to 542 watts per section at $\Delta T 50^{\circ}\text{C}$. Sizing and output charts are included in this brochure.

The heights available range from 300mm to 3000mm for all types of Multicolumns.

Radiators are joined together using nipples. Please note that the end pieces of a Multicolumn are 13mm in length each, therefore will add 26mm to the overall length of the radiator.

Outputs

All Merriott Multicolumns radiators have been manufactured and tested in accordance with EN442.

Pitch Plus

Also available in the Merriott range is the Pitch Plus, a multicolumn radiator manufactured specifically for environments where hygiene is a top priority. Its extended 66mm pitch makes it easy to clean between the columns, preventing the build-up of dust and bacteria.

Finish

Every Merriott Multicolumn radiator undergoes an intensive pre-treatment process to protect against rust. In pre-treatment, the radiators go through a series of washes which degrease the steel and an iron phosphate rinse passivates the surface prior to painting. The primer coat is applied by immersion in an electrophoretic bath to give total coverage of the bare steel and maximum corrosion protection. The durable topcoat (epoxy polyester powder) is electrostatically applied and stove enamel baked at 200°C . The process is monitored to ensure continuous achievement of optimum adhesion, opacity and gloss levels.

Colour

Our standard finish is semi-gloss RAL 9016 (White) in epoxy polyester powder. An extensive range of other RAL and BS colours are available, at a surcharge, on request.

Packaging

The entire surface of the radiator, including all 4 corners, is protected by cardboard box ends and packed in shrink wrapped polythene.

Connections

Standard connections are $4 \times \frac{1}{2}"$ (15mm) BSP connections. These can be used as BOE, TOE, TBOE and TBSE connection configurations. $\frac{1}{4}"$, $\frac{3}{8}"$, $\frac{3}{4}"$ and $1 \frac{1}{4}"$ connections are available on request.

Note: Flow and return positions must be specified at time of ordering.

Testing

Merriott Multicolumns have been tested at 13 Bar with a maximum working pressure of 10 Bar.

Feet

The Multicolumn can be supplied with loose, double loose or design feet at an additional cost.

Dimensional Tolerances

Dimensional Tolerances are in accordance with EN442.

Materials

Multicolumn radiators are made from 1.2mm thick steel, forming tubes of a 25mm diameter.

Warranty

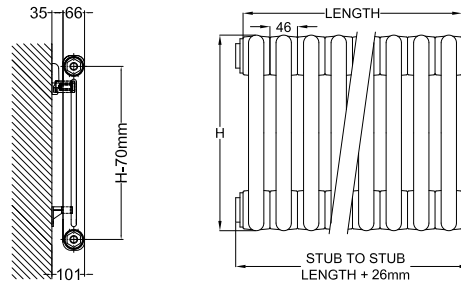
Merriott radiators are guaranteed for a period of 10 years from date of purchase in respect of defective materials and workmanship. The system should be designed in accordance with the British Standard Code of Practice for Water Based Heating Systems in Buildings **BS EN 12828:2012+A1:2014** and **BS EN 12831: 2003**. The installation and commissioning of the system should comply with **BS EN 14336:2004**. On completion of the installation the system should be properly flushed and filled in accordance with the British Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems **BS 7593:2006**, Part L of Building Regulations and Good Practice Guidance for Scotland. Merriott strongly recommend the use of corrosion inhibitor for all applications. Failure to observe these standards may invalidate the manufacturer's warranty.

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

2 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.4	1.6	1.7	1.9	2.1	2.3	2.4
WEIGHT (KG) (PER ELEMENT)		0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.0	4.3
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	48	62	76	90	110	116	130	144	172	212	256	284	314	360	408	436
3	164	72	93	114	135	165	174	195	216	258	318	384	426	471	540	612	654
4	210	96	124	152	180	220	232	260	288	344	424	512	568	628	720	816	872
5	256	120	155	190	225	275	290	325	360	430	530	640	710	785	900	1020	1090
6	302	144	186	228	270	330	348	390	432	516	636	768	852	942	1080	1224	1308
7	348	168	217	266	315	385	406	455	504	602	742	896	994	1099	1260	1428	1526
8	394	192	248	304	360	440	464	520	576	688	848	1024	1136	1256	1440	1632	1744
9	440	216	279	342	405	495	522	585	648	774	954	1152	1278	1413	1620	1836	1962
10	486	240	310	380	450	550	580	650	720	860	1060	1280	1420	1570	1800	2040	2180
11	532	264	341	418	495	605	638	715	792	946	1166	1408	1562	1727	1980	2244	2398
12	578	288	372	456	540	660	696	780	864	1032	1272	1536	1704	1884	2160	2448	2616
13	624	312	403	494	585	715	754	845	936	1118	1378	1664	1846	2041	2340	2652	2834
14	670	336	434	532	630	770	812	910	1008	1204	1484	1792	1988	2198	2520	2856	3052
15	716	360	465	570	675	825	870	975	1080	1290	1590	1920	2130	2355	2700	3060	3270
16	762	384	496	608	720	880	928	1040	1152	1376	1696	2048	2272	2512	2880	3264	3488
17	808	408	527	646	765	935	986	1105	1224	1462	1802	2176	2414	2669	3060	3468	3706
18	854	432	558	684	810	990	1044	1170	1296	1548	1908	2304	2556	2826	3240	3672	3924
19	900	456	589	722	855	1045	1102	1235	1368	1634	2014	2432	2698	2983	3420	3876	4142
20	946	480	620	760	900	1100	1160	1300	1440	1720	2120	2560	2840	3140	3600	4080	4360
21	992	504	651	798	945	1155	1218	1365	1512	1806	2226	2688	2982	3297	3780	4284	4578
22	1038	528	682	836	990	1210	1276	1430	1584	1892	2332	2816	3124	3454	3960	4488	4796
23	1084	552	713	874	1035	1265	1334	1495	1656	1978	2438	2944	3266	3611	4140	4692	5014
24	1130	576	744	912	1080	1320	1392	1560	1728	2064	2544	3072	3408	3768	4320	4896	5232
25	1176	600	775	950	1125	1375	1450	1625	1800	2150	2650	3200	3550	3925	4500	5100	5450
26	1222	624	806	988	1170	1430	1508	1690	1872	2236	2756	3328	3692	4082	4680	5304	5668
27	1268	648	837	1026	1215	1485	1566	1755	1944	2322	2862	3456	3834	4239	4860	5508	5886
28	1314	672	868	1064	1260	1540	1624	1820	2016	2408	2968	3584	3976	4396	5040	5712	6104
29	1360	696	899	1102	1305	1595	1682	1885	2088	2494	3074	3712	4118	4553	5220	5916	6322
30	1406	720	930	1140	1350	1650	1740	1950	2160	2580	3180	3840	4260	4710	5400	6120	6540
31	1452	744	961	1178	1395	1705	1798	2015	2232	2666	3286	3968	4402	4867	5580	6324	6758
32	1498	768	992	1216	1440	1760	1856	2080	2304	2752	3392	4096	4544	5024	5760	6528	6976
33	1544	792	1023	1254	1485	1815	1914	2145	2376	2838	3498	4224	4686	5181	5940	6732	7194
34	1590	816	1054	1292	1530	1870	1972	2210	2448	2924	3604	4352	4828	5338	6120	6936	7412
35	1636	840	1085	1330	1575	1925	2030	2275	2520	3010	3710	4480	4970	5495	6300	7140	7630
36	1682	864	1116	1368	1620	1980	2088	2340	2592	3096	3816	4608	5112	5652	6480	7344	7848

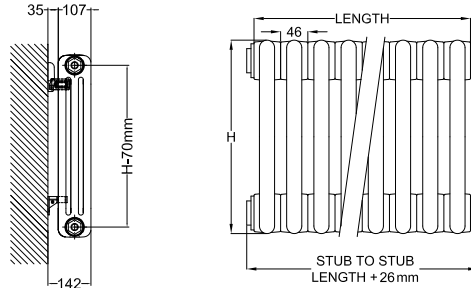
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

3 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	2.0	2.3	2.6	2.8	3.2	3.6	3.8
WEIGHT (KG) (PER ELEMENT)		0.7	0.9	1.2	1.4	1.7	1.8	2.1	2.3	2.7	3.3	4.0	4.4	4.8	5.3	6.0	6.4
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	66	84	104	122	150	158	176	194	232	288	348	388	428	492	558	604
3	164	99	126	156	183	225	237	264	291	348	432	522	582	642	738	837	906
4	210	132	168	208	244	300	316	352	388	464	576	696	776	856	984	1116	1208
5	256	165	210	260	305	375	395	440	485	580	720	870	970	1070	1230	1395	1510
6	302	198	252	312	366	450	474	528	582	696	864	1044	1164	1284	1476	1674	1812
7	348	231	294	364	427	525	553	616	679	812	1008	1218	1358	1498	1722	1953	2114
8	394	264	336	416	488	600	632	704	776	928	1152	1392	1552	1712	1968	2232	2416
9	440	297	378	468	549	675	711	792	873	1044	1296	1566	1746	1926	2214	2511	2718
10	486	330	420	520	610	750	790	880	970	1160	1440	1740	1940	2140	2460	2790	3020
11	532	363	462	572	671	825	869	968	1067	1276	1584	1914	2134	2354	2706	3069	3322
12	578	396	504	624	732	900	948	1056	1164	1392	1728	2088	2328	2568	2952	3348	3624
13	624	429	546	676	793	975	1027	1144	1261	1508	1872	2262	2522	2782	3198	3627	3926
14	670	462	588	728	854	1050	1106	1232	1358	1624	2016	2436	2716	2996	3444	3906	4228
15	716	495	630	780	915	1125	1185	1320	1455	1740	2160	2610	2910	3210	3690	4185	4530
16	762	528	672	832	976	1200	1264	1408	1552	1856	2304	2784	3104	3424	3936	4464	4832
17	808	561	714	884	1037	1275	1343	1496	1649	1972	2448	2958	3298	3638	4182	4743	5134
18	854	594	756	936	1098	1350	1422	1584	1746	2088	2592	3132	3492	3852	4428	5022	5436
19	900	627	798	988	1159	1425	1501	1672	1843	2204	2736	3306	3686	4066	4674	5301	5738
20	946	660	840	1040	1220	1500	1580	1760	1940	2320	2880	3480	3880	4280	4920	5580	6040
21	992	693	882	1092	1281	1575	1659	1848	2037	2436	3024	3654	4074	4494	5166	5859	6342
22	1038	726	924	1144	1342	1650	1738	1936	2134	2552	3168	3828	4268	4708	5412	6138	6644
23	1084	759	966	1196	1403	1725	1817	2024	2231	2668	3312	4002	4462	4922	5658	6417	6946
24	1130	792	1008	1248	1464	1800	1896	2112	2328	2784	3456	4176	4656	5136	5904	6696	7248
25	1176	825	1050	1300	1525	1875	1975	2200	2425	2900	3600	4350	4850	5350	6150	6975	7550
26	1222	858	1092	1352	1586	1950	2054	2288	2522	3016	3744	4524	5044	5564	6396	7254	7852
27	1268	891	1134	1404	1647	2025	2133	2376	2619	3132	3888	4698	5238	5778	6642	7533	8154
28	1314	924	1176	1456	1708	2100	2212	2464	2716	3248	4032	4872	5432	5992	6888	7812	8456
29	1360	957	1218	1508	1769	2175	2291	2552	2813	3364	4176	5046	5626	6206	7134	8091	8758
30	1406	990	1260	1560	1830	2250	2370	2640	2910	3480	4320	5220	5820	6420	7380	8370	9060
31	1452	1023	1302	1612	1891	2325	2449	2728	3007	3596	4464	5394	6014	6634	7626	8649	9362
32	1498	1056	1344	1664	1952	2400	2528	2816	3104	3712	4608	5568	6208	6848	7872	8928	9664
33	1544	1089	1386	1716	2013	2475	2607	2904	3201	3828	4752	5742	6402	7062	8118	9207	9966
34	1590	1122	1428	1768	2074	2550	2686	2992	3298	3944	4896	5916	6596	7276	8364	9486	10268
35	1636	1155	1470	1820	2135	2625	2765	3080	3395	4060	5040	6090	6790	7490	8610	9765	10570
36	1682	1188	1512	1872	2196	2700	2844	3168	3492	4176	5184	6264	6984	7704	8856	10044	10872

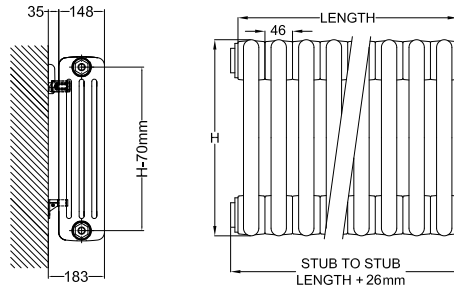
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

4 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.8	0.9	1.1	1.2	1.5	1.6	1.7	1.9	2.2	2.7	3.1	3.4	3.8	4.2	4.7	5.0
WEIGHT (KG) (PER ELEMENT)		0.9	1.2	1.5	1.8	2.2	2.4	2.6	2.9	3.5	4.4	5.3	5.8	6.3	7.1	7.8	8.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	84	112	136	162	200	212	238	264	314	388	464	516	568	644	724	776
3	164	126	168	204	243	300	318	357	396	471	582	696	774	852	966	1086	1164
4	210	168	224	272	324	400	424	476	528	628	776	928	1032	1136	1288	1448	1552
5	256	210	280	340	405	500	530	595	660	785	970	1160	1290	1420	1610	1810	1940
6	302	252	336	408	486	600	636	714	792	942	1164	1392	1548	1704	1932	2172	2328
7	348	294	392	476	567	700	742	833	924	1099	1358	1624	1806	1988	2254	2534	2716
8	394	336	448	544	648	800	848	952	1056	1256	1552	1856	2064	2272	2576	2896	3104
9	440	378	504	612	729	900	954	1071	1188	1413	1746	2088	2322	2556	2898	3258	3492
10	486	420	560	680	810	1000	1060	1190	1320	1570	1940	2320	2580	2840	3220	3620	3880
11	532	462	616	748	891	1100	1166	1309	1452	1727	2134	2552	2838	3124	3542	3982	4268
12	578	504	672	816	972	1200	1272	1428	1584	1884	2328	2784	3096	3408	3864	4344	4656
13	624	546	728	884	1053	1300	1378	1547	1716	2041	2522	3016	3354	3692	4186	4706	5044
14	670	588	784	952	1134	1400	1484	1666	1848	2198	2716	3248	3612	3976	4508	5068	5432
15	716	630	840	1020	1215	1500	1590	1785	1980	2355	2910	3480	3870	4260	4830	5430	5820
16	762	672	896	1088	1296	1600	1696	1904	2112	2512	3104	3712	4128	4544	5152	5792	6208
17	808	714	952	1156	1377	1700	1802	2023	2244	2669	3298	3944	4386	4828	5474	6154	6596
18	854	756	1008	1224	1458	1800	1908	2142	2376	2826	3492	4176	4644	5112	5796	6516	6984
19	900	798	1064	1292	1539	1900	2014	2261	2508	2983	3686	4408	4902	5396	6118	6878	7372
20	946	840	1120	1360	1620	2000	2120	2380	2640	3140	3880	4640	5160	5680	6440	7240	7760
21	992	882	1176	1428	1701	2100	2226	2499	2772	3297	4074	4872	5418	5964	6762	7602	8148
22	1038	924	1232	1496	1782	2200	2332	2618	2904	3454	4268	5104	5676	6248	7084	7964	8536
23	1084	966	1288	1564	1863	2300	2438	2737	3036	3611	4462	5336	5934	6532	7406	8326	8924
24	1130	1008	1344	1632	1944	2400	2544	2856	3168	3768	4656	5568	6192	6816	7728	8688	9312
25	1176	1050	1400	1700	2025	2500	2650	2975	3300	3925	4850	5800	6450	7100	8050	9050	9700
26	1222	1092	1456	1768	2106	2600	2756	3094	3432	4082	5044	6032	6708	7384	8372	9412	10088
27	1268	1134	1512	1836	2187	2700	2862	3213	3564	4239	5238	6264	6966	7668	8694	9774	10476
28	1314	1176	1568	1904	2268	2800	2968	3332	3696	4396	5432	6496	7224	7952	9016	10136	10864
29	1360	1218	1624	1972	2349	2900	3074	3451	3828	4553	5626	6728	7482	8236	9338	10498	11252
30	1406	1260	1680	2040	2430	3000	3180	3570	3960	4710	5820	6960	7740	8520	9660	10860	11640
31	1452	1302	1736	2108	2511	3100	3286	3689	4092	4867	6014	7192	7998	8804	9982	11222	12028
32	1498	1344	1792	2176	2592	3200	3392	3808	4224	5024	6208	7424	8256	9088	10304	11584	12416
33	1544	1386	1848	2244	2673	3300	3498	3927	4356	5181	6402	7656	8514	9372	10626	11946	12804
34	1590	1428	1904	2312	2754	3400	3604	4046	4488	5338	6596	7888	8772	9656	10948	12308	13192
35	1636	1470	1960	2380	2835	3500	3710	4165	4620	5495	6790	8120	9030	9940	11270	12670	13580
36	1682	1512	2016	2448	2916	3600	3816	4284	4752	5652	6984	8352	9288	10224	11592	13032	13968

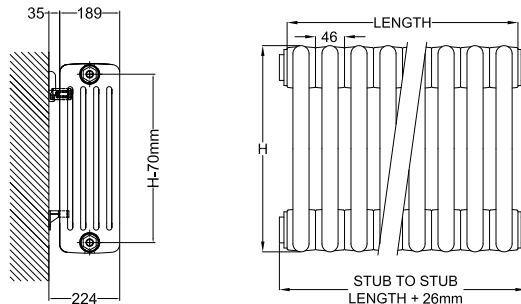
Greyed out sizes indicate weight of over 100kg

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

5 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.7	3.3	3.9	4.3	4.7	5.3	5.9	6.2
WEIGHT (KG) (PER ELEMENT)		1.2	1.6	1.9	2.3	2.8	3.1	3.3	3.7	4.4	5.5	6.5	7.2	7.9	9.0	10.1	10.8
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	104	134	164	194	238	252	282	310	370	456	546	606	666	760	854	918
3	164	156	201	246	291	357	378	423	465	555	684	819	909	999	1140	1281	1377
4	210	208	268	328	388	476	504	564	620	740	912	1092	1212	1332	1520	1708	1836
5	256	260	335	410	485	595	630	705	775	925	1140	1365	1515	1665	1900	2135	2295
6	302	312	402	492	582	714	756	846	930	1110	1368	1638	1818	1998	2280	2562	2754
7	348	364	469	574	679	833	882	987	1085	1295	1596	1911	2121	2331	2660	2989	3213
8	394	416	536	656	776	952	1008	1128	1240	1480	1824	2184	2424	2664	3040	3416	3672
9	440	468	603	738	873	1071	1134	1269	1395	1665	2052	2457	2727	2997	3420	3843	4131
10	486	520	670	820	970	1190	1260	1410	1550	1850	2280	2730	3030	3330	3800	4270	4590
11	532	572	737	902	1067	1309	1386	1551	1705	2035	2508	3003	3333	3663	4180	4697	5049
12	578	624	804	984	1164	1428	1512	1692	1860	2220	2736	3276	3636	3996	4560	5124	5508
13	624	676	871	1066	1261	1547	1638	1833	2015	2405	2964	3549	3939	4329	4940	5551	5967
14	670	728	938	1148	1358	1666	1764	1974	2170	2590	3192	3822	4242	4662	5320	5978	6426
15	716	780	1005	1230	1455	1785	1890	2115	2325	2775	3420	4095	4545	4995	5700	6405	6885
16	762	832	1072	1312	1552	1904	2016	2256	2480	2960	3648	4368	4848	5328	6080	6832	7344
17	808	884	1139	1394	1649	2023	2142	2397	2635	3145	3876	4641	5151	5661	6460	7259	7803
18	854	936	1206	1476	1746	2142	2268	2538	2790	3330	4104	4914	5454	5994	6840	7686	8262
19	900	988	1273	1558	1843	2261	2394	2679	2945	3515	4332	5187	5757	6327	7220	8113	8721
20	946	1040	1340	1640	1940	2380	2520	2820	3100	3700	4560	5460	6060	6660	7600	8540	9180
21	992	1092	1407	1722	2037	2499	2646	2961	3255	3885	4788	5733	6363	6993	7980	8967	9639
22	1038	1144	1474	1804	2134	2618	2772	3102	3410	4070	5016	6006	6666	7326	8360	9394	10098
23	1084	1196	1541	1886	2231	2737	2898	3243	3565	4255	5244	6279	6969	7659	8740	9821	10557
24	1130	1248	1608	1968	2328	2856	3024	3384	3720	4440	5472	6552	7272	7992	9120	10248	11016
25	1176	1300	1675	2050	2425	2975	3150	3525	3875	4625	5700	6825	7575	8325	9500	10675	11475
26	1222	1352	1742	2132	2522	3094	3276	3666	4030	4810	5928	7098	7878	8658	9880	11102	11934
27	1268	1404	1809	2214	2619	3213	3402	3807	4185	4995	6156	7371	8181	8991	10260	11529	12393
28	1314	1456	1876	2296	2716	3332	3528	3948	4340	5180	6384	7644	8484	9324	10640	11956	12852
29	1360	1508	1943	2378	2813	3451	3654	4089	4495	5365	6612	7917	8787	9657	11020	12383	13311
30	1406	1560	2010	2460	2910	3570	3780	4230	4650	5550	6840	8190	9090	9990	11400	12810	13770
31	1452	1612	2077	2542	3007	3689	3906	4371	4805	5735	7068	8463	9393	10323	11780	13237	14229
32	1498	1664	2144	2624	3104	3808	4032	4512	4960	5920	7296	8736	9696	10656	12160	13664	14688
33	1544	1716	2211	2706	3201	3927	4158	4653	5115	6105	7524	9009	9999	10989	12540	14091	15147
34	1590	1768	2278	2788	3298	4046	4284	4794	5270	6290	7752	9282	10302	11322	12920	14518	15606
35	1636	1820	2345	2870	3395	4165	4410	4935	5425	6475	7980	9555	10605	11655	13300	14945	16065
36	1682	1872	2412	2952	3492	4284	4536	5076	5580	6660	8208	9828	10908	11988	13680	15372	16524

Greyed out sizes indicate weight of over 100kg

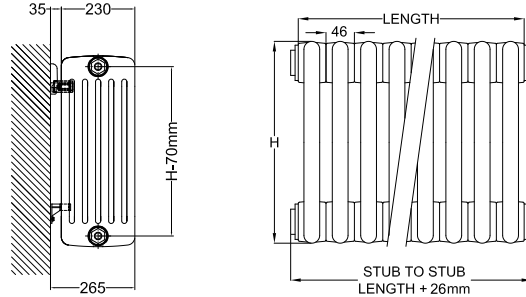
06/

Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

6 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.1	1.3	1.6	1.8	2.2	2.3	2.5	2.8	3.3	4.0	4.7	5.2	5.7	6.4	7.2	7.7
WEIGHT (KG) (PER ELEMENT)		1.5	1.9	2.3	2.7	3.4	3.8	4.0	4.4	5.2	6.5	7.7	8.6	9.5	10.8	12.1	13.3
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	124	162	198	236	288	306	342	378	448	552	658	728	798	904	1012	1084
3	164	186	243	297	354	432	459	513	567	672	828	987	1092	1197	1356	1518	1626
4	210	248	324	396	472	576	612	684	756	896	1104	1316	1456	1596	1808	2024	2168
5	256	310	405	495	590	720	765	855	945	1120	1380	1645	1820	1995	2260	2530	2710
6	302	372	486	594	708	864	918	1026	1134	1344	1656	1974	2184	2394	2712	3036	3252
7	348	434	567	693	826	1008	1071	1197	1323	1568	1932	2303	2548	2793	3164	3542	3794
8	394	496	648	792	944	1152	1224	1368	1512	1792	2208	2632	2912	3192	3616	4048	4336
9	440	558	729	891	1062	1296	1377	1539	1701	2016	2484	2961	3276	3591	4068	4554	4878
10	486	620	810	990	1180	1440	1530	1710	1890	2240	2760	3290	3640	3990	4520	5060	5420
11	532	682	891	1089	1298	1584	1683	1881	2079	2464	3036	3619	4004	4389	4972	5566	5962
12	578	744	972	1188	1416	1728	1836	2052	2268	2688	3312	3948	4368	4788	5424	6072	6504
13	624	806	1053	1287	1534	1872	1989	2223	2457	2912	3588	4277	4732	5187	5876	6578	7046
14	670	868	1134	1386	1652	2016	2142	2394	2646	3136	3864	4606	5096	5586	6328	7084	7588
15	716	930	1215	1485	1770	2160	2295	2565	2835	3360	4140	4935	5460	5985	6780	7590	8130
16	762	992	1296	1584	1888	2304	2448	2736	3024	3584	4416	5264	5824	6384	7232	8096	8672
17	808	1054	1377	1683	2006	2448	2601	2907	3213	3808	4692	5593	6188	6783	7684	8602	9214
18	854	1116	1458	1782	2124	2592	2754	3078	3402	4032	4968	5922	6552	7182	8136	9108	9756
19	900	1178	1539	1881	2242	2736	2907	3249	3591	4256	5244	6251	6916	7581	8588	9614	10298
20	946	1240	1620	1980	2360	2880	3060	3420	3780	4480	5520	6580	7280	7980	9040	10120	10840
21	992	1302	1701	2079	2478	3024	3213	3591	3969	4704	5796	6909	7644	8379	9492	10626	11382
22	1038	1364	1782	2178	2596	3168	3366	3762	4158	4928	6072	7238	8008	8778	9944	11132	11924
23	1084	1426	1863	2277	2714	3312	3519	3933	4347	5152	6348	7567	8372	9177	10396	11638	12466
24	1130	1488	1944	2376	2832	3456	3672	4104	4536	5376	6624	7896	8736	9576	10848	12144	13008
25	1176	1550	2025	2475	2950	3600	3825	4275	4725	5600	6900	8225	9100	9975	11300	12650	13550
26	1222	1612	2106	2574	3068	3744	3978	4446	4914	5824	7176	8554	9464	10374	11752	13156	14092
27	1268	1674	2187	2673	3186	3888	4131	4617	5103	6048	7452	8883	9828	10773	12204	13662	14634
28	1314	1736	2268	2772	3304	4032	4284	4788	5292	6272	7728	9212	10192	11172	12656	14168	15176
29	1360	1798	2349	2871	3422	4176	4437	4959	5481	6496	8004	9541	10556	11571	13108	14674	15718
30	1406	1860	2430	2970	3540	4320	4590	5130	5670	6720	8280	9870	10920	11970	13560	15180	16260
31	1452	1922	2511	3069	3658	4464	4743	5301	5859	6944	8556	10199	11284	12369	14012	15686	16802
32	1498	1984	2592	3168	3776	4608	4896	5472	6048	7168	8832	10528	11648	12768	14464	16192	17344
33	1544	2046	2673	3267	3894	4752	5049	5643	6237	7392	9108	10857	12012	13167	14916	16698	17886
34	1590	2108	2754	3366	4012	4896	5202	5814	6426	7616	9384	11186	12376	13566	15368	17204	18428
35	1636	2170	2835	3465	4130	5040	5355	5985	6615	7840	9660	11515	12740	13965	15820	17710	18970
36	1682	2232	2916	3564	4248	5184	5508	6156	6804	8064	9936	11844	13104	14364	16272	18216	19512

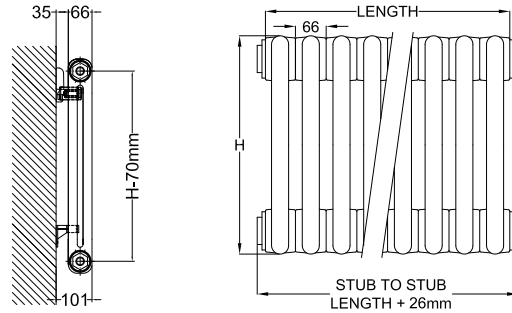
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

2 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.5	1.7	1.8	2.1	2.2	2.4	2.5
WEIGHT (KG) (PER ELEMENT)		0.6	0.7	0.9	1.0	1.2	1.2	1.5	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	54	68	82	96	118	126	142	158	190	238	288	324	360	414	470	506
3	164	81	102	123	144	177	189	213	237	285	357	432	486	540	621	705	759
4	210	108	136	164	192	236	252	284	316	380	476	576	648	720	828	940	1012
5	256	135	170	205	240	295	315	355	395	475	595	720	810	900	1035	1175	1265
6	302	162	204	246	288	354	378	426	474	570	714	864	972	1080	1242	1410	1518
7	348	189	238	287	336	413	441	497	553	665	833	1008	1134	1260	1449	1645	1771
8	394	216	272	328	384	472	504	568	632	760	952	1152	1296	1440	1656	1880	2024
9	440	243	306	369	432	531	567	639	711	855	1071	1296	1458	1620	1863	2115	2277
10	486	270	340	410	480	590	630	710	790	950	1190	1440	1620	1800	2070	2350	2530
11	532	297	374	451	528	649	693	781	869	1045	1309	1584	1782	1980	2277	2585	2783
12	578	324	408	492	576	708	756	852	948	1140	1428	1728	1944	2160	2484	2820	3036
13	624	351	442	533	624	767	819	923	1027	1235	1547	1872	2106	2340	2691	3055	3289
14	670	378	476	574	672	826	882	994	1106	1330	1666	2016	2268	2520	2898	3290	3542
15	716	405	510	615	720	885	945	1065	1185	1425	1785	2160	2430	2700	3105	3525	3795
16	762	432	544	656	768	944	1008	1136	1264	1520	1904	2304	2592	2880	3312	3760	4048
17	808	459	578	697	816	1003	1071	1207	1343	1615	2023	2448	2754	3060	3519	3995	4301
18	854	486	612	738	864	1062	1134	1278	1422	1710	2142	2592	2916	3240	3726	4230	4554
19	900	513	646	779	912	1121	1197	1349	1501	1805	2261	2736	3078	3420	3933	4465	4807
20	946	540	680	820	960	1180	1260	1420	1580	1900	2380	2880	3240	3600	4140	4700	5060
21	992	567	714	861	1008	1239	1323	1491	1659	1995	2499	3024	3402	3780	4347	4935	5313
22	1038	594	748	902	1056	1298	1386	1562	1738	2090	2618	3168	3564	3960	4554	5170	5566
23	1084	621	782	943	1104	1357	1449	1633	1817	2185	2737	3312	3726	4140	4761	5405	5819
24	1130	648	816	984	1152	1416	1512	1704	1896	2280	2856	3456	3888	4320	4968	5640	6072
25	1176	675	850	1025	1200	1475	1575	1775	1975	2375	2975	3600	4050	4500	5175	5875	6325
26	1222	702	884	1066	1248	1534	1638	1846	2054	2470	3094	3744	4212	4680	5382	6110	6578
27	1268	729	918	1107	1296	1593	1701	1917	2133	2565	3213	3888	4374	4860	5589	6345	6831
28	1314	756	952	1148	1344	1652	1764	1988	2212	2660	3332	4032	4536	5040	5796	6580	7084
29	1360	783	986	1189	1392	1711	1827	2059	2291	2755	3451	4176	4698	5220	6003	6815	7337
30	1406	810	1020	1230	1440	1770	1890	2130	2370	2850	3570	4320	4860	5400	6210	7050	7590
31	1452	837	1054	1271	1488	1829	1953	2201	2449	2945	3689	4464	5022	5580	6417	7285	7843
32	1498	864	1088	1312	1536	1888	2016	2272	2528	3040	3808	4608	5184	5760	6624	7520	8096
33	1544	891	1122	1353	1584	1947	2079	2343	2607	3135	3927	4752	5346	5940	6831	7755	8349
34	1590	918	1156	1394	1632	2006	2142	2414	2686	3230	4046	4896	5508	6120	7038	7990	8602
35	1636	945	1190	1435	1680	2065	2205	2485	2765	3325	4165	5040	5670	6300	7245	8225	8855
36	1682	972	1224	1476	1728	2124	2268	2556	2844	3420	4284	5184	5832	6480	7452	8460	9108

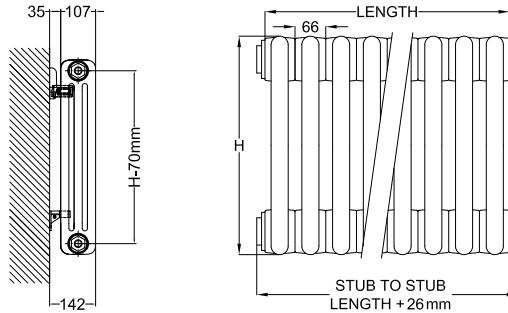
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

3 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.7	0.8	0.9	1.0	1.2	1.2	1.4	1.5	1.7	2.1	2.4	2.6	2.9	3.3	3.7	3.9
WEIGHT (KG) (PER ELEMENT)		0.8	1.0	1.3	1.5	1.8	1.8	2.2	2.4	2.8	3.4	4.1	4.5	4.9	5.4	6.1	6.5
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	74	94	112	130	160	170	192	214	258	324	392	442	490	566	644	700
3	164	111	141	168	195	240	255	288	321	387	486	588	663	735	849	966	1050
4	210	148	188	224	260	320	340	384	428	516	648	784	884	980	1132	1288	1400
5	256	185	235	280	325	400	425	480	535	645	810	980	1105	1225	1415	1610	1750
6	302	222	282	336	390	480	510	576	642	774	972	1176	1326	1470	1698	1932	2100
7	348	259	329	392	455	560	595	672	749	903	1134	1372	1547	1715	1981	2254	2450
8	394	296	376	448	520	640	680	768	856	1032	1296	1568	1768	1960	2264	2576	2800
9	440	333	423	504	585	720	765	864	963	1161	1458	1764	1989	2205	2547	2898	3150
10	486	370	470	560	650	800	850	960	1070	1290	1620	1960	2210	2450	2830	3220	3500
11	532	407	517	616	715	880	935	1056	1177	1419	1782	2156	2431	2695	3113	3542	3850
12	578	444	564	672	780	960	1020	1152	1284	1548	1944	2352	2652	2940	3396	3864	4200
13	624	481	611	728	845	1040	1105	1248	1391	1677	2106	2548	2873	3185	3679	4186	4550
14	670	518	658	784	910	1120	1190	1344	1498	1806	2268	2744	3094	3430	3962	4508	4900
15	716	555	705	840	975	1200	1275	1440	1605	1935	2430	2940	3315	3675	4245	4830	5250
16	762	592	752	896	1040	1280	1360	1536	1712	2064	2592	3136	3536	3920	4528	5152	5600
17	808	629	799	952	1105	1360	1445	1632	1819	2193	2754	3332	3757	4165	4811	5474	5950
18	854	666	846	1008	1170	1440	1530	1728	1926	2322	2916	3528	3978	4410	5094	5796	6300
19	900	703	893	1064	1235	1520	1615	1824	2033	2451	3078	3724	4199	4655	5377	6118	6650
20	946	740	940	1120	1300	1600	1700	1920	2140	2580	3240	3920	4420	4900	5660	6440	7000
21	992	777	987	1176	1365	1680	1785	2016	2247	2709	3402	4116	4641	5145	5943	6762	7350
22	1038	814	1034	1232	1430	1760	1870	2112	2354	2838	3564	4312	4862	5390	6226	7084	7700
23	1084	851	1081	1288	1495	1840	1955	2208	2461	2967	3726	4508	5083	5635	6509	7406	8050
24	1130	888	1128	1344	1560	1920	2040	2304	2568	3096	3888	4704	5304	5880	6792	7728	8400
25	1176	925	1175	1400	1625	2000	2125	2400	2675	3225	4050	4900	5525	6125	7075	8050	8750
26	1222	962	1222	1456	1690	2080	2210	2496	2782	3354	4212	5096	5746	6370	7358	8372	9100
27	1268	999	1269	1512	1755	2160	2295	2592	2889	3483	4374	5292	5967	6615	7641	8694	9450
28	1314	1036	1316	1568	1820	2240	2380	2688	2996	3612	4536	5488	6188	6860	7924	9016	9800
29	1360	1073	1363	1624	1885	2320	2465	2784	3103	3741	4698	5684	6409	7105	8207	9338	10150
30	1406	1110	1410	1680	1950	2400	2550	2880	3210	3870	4860	5880	6630	7350	8490	9660	10500
31	1452	1147	1457	1736	2015	2480	2635	2976	3317	3999	5022	6076	6851	7595	8773	9982	10850
32	1498	1184	1504	1792	2080	2560	2720	3072	3424	4128	5184	6272	7072	7840	9056	10304	11200
33	1544	1221	1551	1848	2145	2640	2805	3168	3531	4257	5346	6468	7293	8085	9339	10626	11550
34	1590	1258	1598	1904	2210	2720	2890	3264	3638	4386	5508	6664	7514	8330	9622	10948	11900
35	1636	1295	1645	1960	2275	2800	2975	3360	3745	4515	5670	6860	7735	8575	9905	11270	12250
36	1682	1332	1692	2016	2340	2880	3060	3456	3852	4644	5832	7056	7956	8820	10188	11592	12600

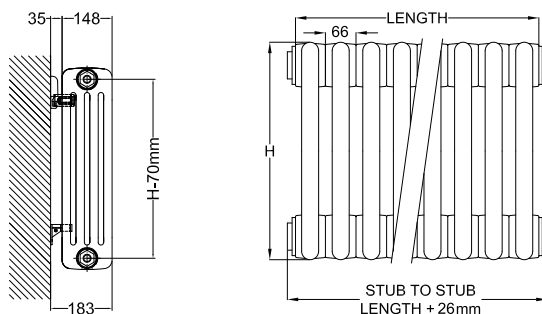
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

4 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		0.9	1.0	1.2	1.3	1.6	1.6	1.8	2.0	2.3	2.8	3.2	3.5	3.8	4.3	4.8	5.1
WEIGHT (KG) (PER ELEMENT)		1.0	1.3	1.6	1.9	2.3	2.4	2.7	3.0	3.6	4.5	5.4	5.9	6.4	7.2	7.9	8.5
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	92	120	148	174	214	230	260	290	348	436	524	588	650	742	836	900
3	164	138	180	222	261	321	345	390	435	522	654	786	882	975	1113	1254	1350
4	210	184	240	296	348	428	460	520	580	696	872	1048	1176	1300	1484	1672	1800
5	256	230	300	370	435	535	575	650	725	870	1090	1310	1470	1625	1855	2090	2250
6	302	276	360	444	522	642	690	780	870	1044	1308	1572	1764	1950	2226	2508	2700
7	348	322	420	518	609	749	805	910	1015	1218	1526	1834	2058	2275	2597	2926	3150
8	394	368	480	592	696	856	920	1040	1160	1392	1744	2096	2352	2600	2968	3344	3600
9	440	414	540	666	783	963	1035	1170	1305	1566	1962	2358	2646	2925	3339	3762	4050
10	486	460	600	740	870	1070	1150	1300	1450	1740	2180	2620	2940	3250	3710	4180	4500
11	532	506	660	814	957	1177	1265	1430	1595	1914	2398	2882	3234	3575	4081	4598	4950
12	578	552	720	888	1044	1284	1380	1560	1740	2088	2616	3144	3528	3900	4452	5016	5400
13	624	598	780	962	1131	1391	1495	1690	1885	2262	2834	3406	3822	4225	4823	5434	5850
14	670	644	840	1036	1218	1498	1610	1820	2030	2436	3052	3668	4116	4550	5194	5852	6300
15	716	690	900	1110	1305	1605	1725	1950	2175	2610	3270	3930	4410	4875	5565	6270	6750
16	762	736	960	1184	1392	1712	1840	2080	2320	2784	3488	4192	4704	5200	5936	6688	7200
17	808	782	1020	1258	1479	1819	1955	2210	2465	2958	3706	4454	4998	5525	6307	7106	7650
18	854	828	1080	1332	1566	1926	2070	2340	2610	3132	3924	4716	5292	5850	6678	7524	8100
19	900	874	1140	1406	1653	2033	2185	2470	2755	3306	4142	4978	5586	6175	7049	7942	8550
20	946	920	1200	1480	1740	2140	2300	2600	2900	3480	4360	5240	5880	6500	7420	8360	9000
21	992	966	1260	1554	1827	2247	2415	2730	3045	3654	4578	5502	6174	6825	7791	8778	9450
22	1038	1012	1320	1628	1914	2354	2530	2860	3190	3828	4796	5764	6468	7150	8162	9196	9900
23	1084	1058	1380	1702	2001	2461	2645	2990	3335	4002	5014	6026	6762	7475	8533	9614	10350
24	1130	1104	1440	1776	2088	2568	2760	3120	3480	4176	5232	6288	7056	7800	8904	10032	10800
25	1176	1150	1500	1850	2175	2675	2875	3250	3625	4350	5450	6550	7350	8125	9275	10450	11250
26	1222	1196	1560	1924	2262	2782	2990	3380	3770	4524	5668	6812	7644	8450	9646	10868	11700
27	1268	1242	1620	1998	2349	2889	3105	3510	3915	4698	5886	7074	7938	8775	10017	11286	12150
28	1314	1288	1680	2072	2436	2996	3220	3640	4060	4872	6104	7336	8232	9100	10388	11704	12600
29	1360	1334	1740	2146	2523	3103	3335	3770	4205	5046	6322	7598	8526	9425	10759	12122	13050
30	1406	1380	1800	2220	2610	3210	3450	3900	4350	5220	6540	7860	8820	9750	11130	12540	13500
31	1452	1426	1860	2294	2697	3317	3565	4030	4495	5394	6758	8122	9114	10075	11501	12958	13950
32	1498	1472	1920	2368	2784	3424	3680	4160	4640	5568	6976	8384	9408	10400	11872	13376	14400
33	1544	1518	1980	2442	2871	3531	3795	4290	4785	5742	7194	8646	9702	10725	12243	13794	14850
34	1590	1564	2040	2516	2958	3638	3910	4420	4930	5916	7412	8908	9996	11050	12614	14212	15300
35	1636	1610	2100	2590	3045	3745	4025	4550	5075	6090	7630	9170	10290	11375	12985	14630	15750
36	1682	1656	2160	2664	3132	3852	4140	4680	5220	6264	7848	9432	10584	11700	13356	15048	16200

Greyed out sizes indicate weight of over 100kg

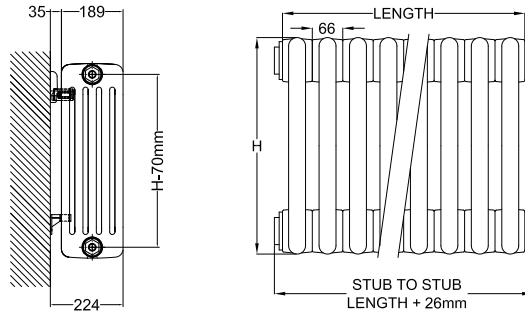
10 /

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

5 Column



		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.1	1.3	1.5	1.7	1.9	1.9	2.2	2.4	2.8	3.4	4.0	4.4	4.8	5.4	6.0	6.3
WEIGHT (KG) (PER ELEMENT)		1.3	1.7	2.0	2.4	2.9	3.1	3.4	3.8	4.5	5.6	6.6	7.3	8.0	9.1	10.2	10.9
SECTIONS	LENGTH	O/P @ ΔT50°C (W)															
2	118	110	144	176	208	254	272	308	342	410	512	616	690	764	874	986	1066
3	164	165	216	264	312	381	408	462	513	615	768	924	1035	1146	1311	1479	1599
4	210	220	288	352	416	508	544	616	684	820	1024	1232	1380	1528	1748	1972	2132
5	256	275	360	440	520	635	680	770	855	1025	1280	1540	1725	1910	2185	2465	2665
6	302	330	432	528	624	762	816	924	1026	1230	1536	1848	2070	2292	2622	2958	3198
7	348	385	504	616	728	889	952	1078	1197	1435	1792	2156	2415	2674	3059	3451	3731
8	394	440	576	704	832	1016	1088	1232	1368	1640	2048	2464	2760	3056	3496	3944	4264
9	440	495	648	792	936	1143	1224	1386	1539	1845	2304	2772	3105	3438	3933	4437	4797
10	486	550	720	880	1040	1270	1360	1540	1710	2050	2560	3080	3450	3820	4370	4930	5330
11	532	605	792	968	1144	1397	1496	1694	1881	2255	2816	3388	3795	4202	4807	5423	5863
12	578	660	864	1056	1248	1524	1632	1848	2052	2460	3072	3696	4140	4584	5244	5916	6396
13	624	715	936	1144	1352	1651	1768	2002	2223	2665	3328	4004	4485	4966	5681	6409	6929
14	670	770	1008	1232	1456	1778	1904	2156	2394	2870	3584	4312	4830	5348	6118	6902	7462
15	716	825	1080	1320	1560	1905	2040	2310	2565	3075	3840	4620	5175	5730	6555	7395	7995
16	762	880	1152	1408	1664	2032	2176	2464	2736	3280	4096	4928	5520	6112	6992	7888	8528
17	808	935	1224	1496	1768	2159	2312	2618	2907	3485	4352	5236	5865	6494	7429	8381	9061
18	854	990	1296	1584	1872	2286	2448	2772	3078	3690	4608	5544	6210	6876	7866	8874	9594
19	900	1045	1368	1672	1976	2413	2584	2926	3249	3895	4864	5852	6555	7258	8303	9367	10127
20	946	1100	1440	1760	2080	2540	2720	3080	3420	4100	5120	6160	6900	7640	8740	9860	10660
21	992	1155	1512	1848	2184	2667	2856	3234	3591	4305	5376	6468	7245	8022	9177	10353	11193
22	1038	1210	1584	1936	2288	2794	2992	3388	3762	4510	5632	6776	7590	8404	9614	10846	11726
23	1084	1265	1656	2024	2392	2921	3128	3542	3933	4715	5888	7084	7935	8786	10051	11339	12259
24	1130	1320	1728	2112	2496	3048	3264	3696	4104	4920	6144	7392	8280	9168	10488	11832	12792
25	1176	1375	1800	2200	2600	3175	3400	3850	4275	5125	6400	7700	8625	9550	10925	12325	13325
26	1222	1430	1872	2288	2704	3302	3536	4004	4446	5330	6656	8008	8970	9932	11362	12818	13858
27	1268	1485	1944	2376	2808	3429	3672	4158	4617	5535	6912	8316	9315	10314	11799	13311	14391
28	1314	1540	2016	2464	2912	3556	3808	4312	4788	5740	7168	8624	9660	10696	12236	13804	14924
29	1360	1595	2088	2552	3016	3683	3944	4466	4959	5945	7424	8932	10005	11078	12673	14297	15457
30	1406	1650	2160	2640	3120	3810	4080	4620	5130	6150	7680	9240	10350	11460	13110	14790	15990
31	1452	1705	2232	2728	3224	3937	4216	4774	5301	6355	7936	9548	10695	11842	13547	15283	16523
32	1498	1760	2304	2816	3328	4064	4352	4928	5472	6560	8192	9856	11040	12224	13984	15776	17056
33	1544	1815	2376	2904	3432	4191	4488	5082	5643	6765	8448	10164	11385	12606	14421	16269	17589
34	1590	1870	2448	2992	3536	4318	4624	5236	5814	6970	8704	10472	11730	12988	14858	16762	18122
35	1636	1925	2520	3080	3640	4445	4760	5390	5985	7175	8960	10780	12075	13370	15295	17255	18655
36	1682	1980	2592	3168	3744	4572	4896	5544	6156	7380	9216	11088	12420	13752	15732	17748	19188

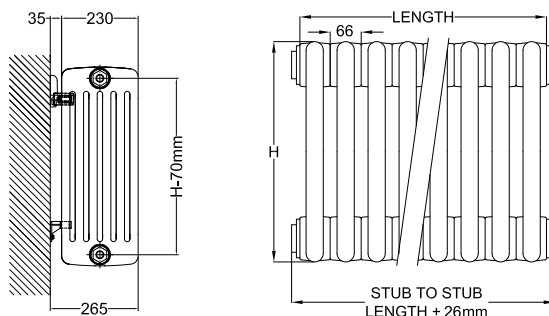
Greyed out sizes indicate weight of over 100kg

Pitch Plus Multicolumns

Heat Outputs To BS EN442 Certification

*Outputs based on per section/element.

6 Column

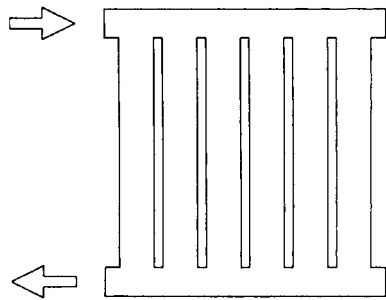


		HEIGHT															
		300	400	500	600	750	800	900	1000	1200	1500	1800	2000	2200	2500	2800	3000
CONTENT(L) (PER ELEMENT)		1.2	1.4	1.7	1.9	2.3	2.3	2.6	2.9	3.4	4.1	4.8	5.3	5.8	6.5	7.2	7.8
WEIGHT (KG) (PER ELEMENT)		1.6	2.0	2.4	2.8	3.5	3.8	4.1	4.5	5.3	6.6	7.8	8.7	9.6	10.9	12.2	13.4
SECTIONS	LENGTH	O/P @ $\Delta T50^{\circ}\text{C}$ (W)															
2	118	134	174	212	252	310	330	372	416	496	618	744	830	914	1040	1168	1258
3	164	201	261	318	378	465	495	558	624	744	927	1116	1245	1371	1560	1752	1887
4	210	268	348	424	504	620	660	744	832	992	1236	1488	1660	1828	2080	2336	2516
5	256	335	435	530	630	775	825	930	1040	1240	1545	1860	2075	2285	2600	2920	3145
6	302	402	522	636	756	930	990	1116	1248	1488	1854	2232	2490	2742	3120	3504	3774
7	348	469	609	742	882	1085	1155	1302	1456	1736	2163	2604	2905	3199	3640	4088	4403
8	394	536	696	848	1008	1240	1320	1488	1664	1984	2472	2976	3320	3656	4160	4672	5032
9	440	603	783	954	1134	1395	1485	1674	1872	2232	2781	3348	3735	4113	4680	5256	5661
10	486	670	870	1060	1260	1550	1650	1860	2080	2480	3090	3720	4150	4570	5200	5840	6290
11	532	737	957	1166	1386	1705	1815	2046	2288	2728	3399	4092	4565	5027	5720	6424	6919
12	578	804	1044	1272	1512	1860	1980	2232	2496	2976	3708	4464	4980	5484	6240	7008	7548
13	624	871	1131	1378	1638	2015	2145	2418	2704	3224	4017	4836	5395	5941	6760	7592	8177
14	670	938	1218	1484	1764	2170	2310	2604	2912	3472	4326	5208	5810	6398	7280	8176	8806
15	716	1005	1305	1590	1890	2325	2475	2790	3120	3720	4635	5580	6225	6855	7800	8760	9435
16	762	1072	1392	1696	2016	2480	2640	2976	3328	3968	4944	5952	6640	7312	8320	9344	10064
17	808	1139	1479	1802	2142	2635	2805	3162	3536	4216	5253	6324	7055	7769	8840	9928	10693
18	854	1206	1566	1908	2268	2790	2970	3348	3744	4464	5562	6696	7470	8226	9360	10512	11322
19	900	1273	1653	2014	2394	2945	3135	3534	3952	4712	5871	7068	7885	8683	9880	11096	11951
20	946	1340	1740	2120	2520	3100	3300	3720	4160	4960	6180	7440	8300	9140	10400	11680	12580
21	992	1407	1827	2226	2646	3255	3465	3906	4368	5208	6489	7812	8715	9597	10920	12264	13209
22	1038	1474	1914	2332	2772	3410	3630	4092	4576	5456	6798	8184	9130	10054	11440	12848	13838
23	1084	1541	2001	2438	2898	3565	3795	4278	4784	5704	7107	8556	9545	10511	11960	13432	14467
24	1130	1608	2088	2544	3024	3720	3960	4464	4992	5952	7416	8928	9960	10968	12480	14016	15096
25	1176	1675	2175	2650	3150	3875	4125	4650	5200	6200	7725	9300	10375	11425	13000	14600	15725
26	1222	1742	2262	2756	3276	4030	4290	4836	5408	6448	8034	9672	10790	11882	13520	15184	16354
27	1268	1809	2349	2862	3402	4185	4455	5022	5616	6696	8343	10044	11205	12339	14040	15768	16983
28	1314	1876	2436	2968	3528	4340	4620	5208	5824	6944	8652	10416	11620	12796	14560	16352	17612
29	1360	1943	2523	3074	3654	4495	4785	5394	6032	7192	8961	10788	12035	13253	15080	16936	18241
30	1406	2010	2610	3180	3780	4650	4950	5580	6240	7440	9270	11160	12450	13710	15600	17520	18870
31	1452	2077	2697	3286	3906	4805	5115	5766	6448	7688	9579	11532	12865	14167	16120	18104	19499
32	1498	2144	2784	3392	4032	4960	5280	5952	6656	7936	9888	11904	13280	14624	16640	18688	20128
33	1544	2211	2871	3498	4158	5115	5445	6138	6864	8184	10197	12276	13695	15081	17160	19272	20757
34	1590	2278	2958	3604	4284	5270	5610	6324	7072	8432	10506	12648	14110	15538	17680	19856	21386
35	1636	2345	3045	3710	4410	5425	5775	6510	7280	8680	10815	13020	14525	15995	18200	20440	22015
36	1682	2412	3132	3816	4536	5580	5940	6696	7488	8928	11124	13392	14940	16452	18720	21024	22644

Greyed out sizes indicate weight of over 100kg

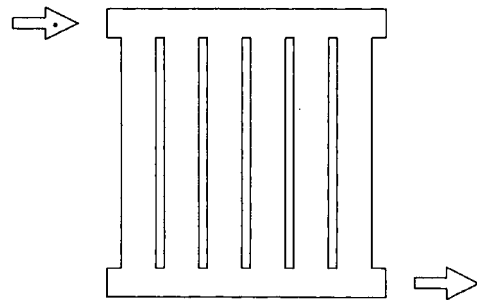
Connection Options

TBSE



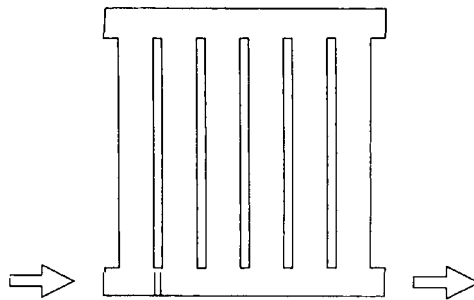
SIDE CONNECTIONS

TBOE



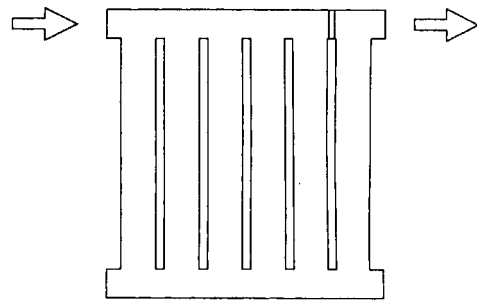
OPPOSITE CONNECTIONS

BOE (BD)



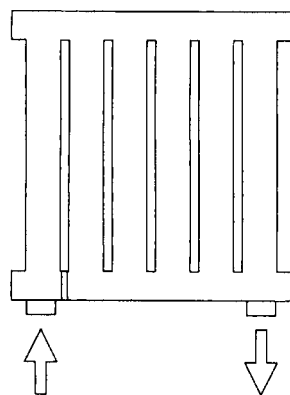
BOTTOM CONNECTIONS - LESS THAN 15 SECTIONS OR GREATER THAN 1 METRE HIGH WILL REQUIRE FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

TOE



TOP CONNECTIONS WITH FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

(BOE) (EF)



BOTTOM CONNECTIONS WITH 1/2" BUSHES
WITH FLOW DIVERTER (BAFFLE).
*ADDITIONAL COST FOR THESE CONNECTIONS

Connection sizes available

1/2" (15mm)

3/4" (20 mm)

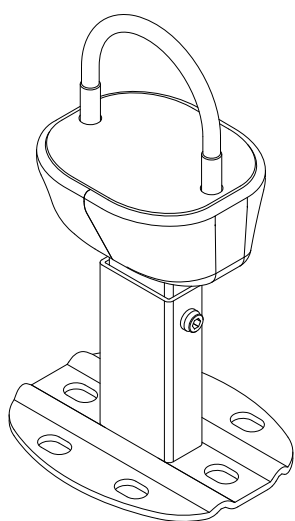
1" (25mm)

Note: Flow and return positions must be specified at point of order

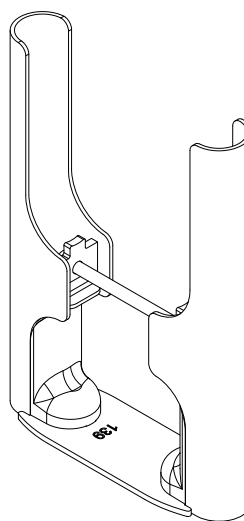
Mounting Options

Any feet must be specified at the time of order and are available at a minimum of 100mm high.

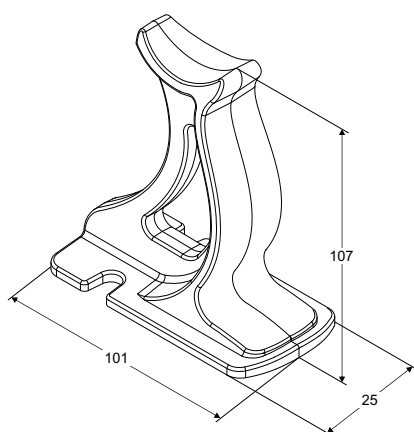
Multicolumn radiators mounted on feet cannot be freestanding when the total height including feet exceeds 500mm. For any further queries, please contact the Merriott Sales Office.



Loose foot



Double loose foot



Design foot

Correction Factors

The outputs quoted in this brochure are based on a ΔT of 50°C.

Listed below are the multiplying factors needed to calculate the output at other Delta Ts (ΔT s) between 10°C and 80°C. This is done by multiplying your heat output with the appropriate correction factor selected from the table below. Please note more detailed correction factors for multicolumn products are available from your local Merriott contact.

EXAMPLE:

Required Room Temperature = 21°C, Low Temperature = 86°C, Return Temperature = 72°C

SOLUTION:

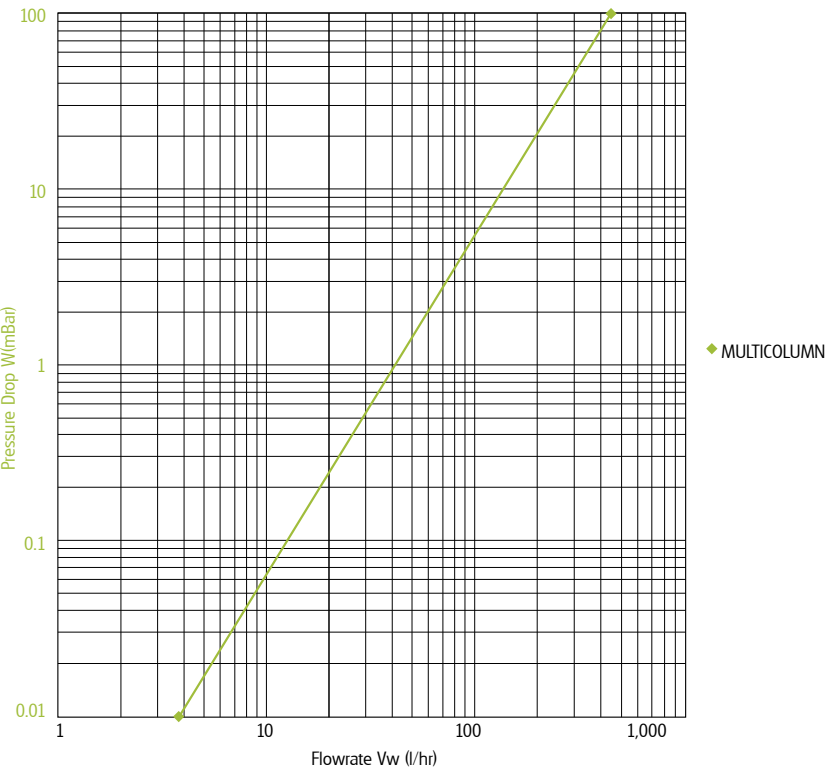
Mean Water Temperature = $(T_{\text{Flow}} + T_{\text{Return}}) / 2 = (86 + 72) / 2 = 79^\circ\text{C}$

$\Delta T = \text{Mean Water Temperature} - \text{Required Room Temperature} = 79 - 21 = 58^\circ\text{C}$

From the tables below, the output for a Multicolumn at $\Delta T 58^\circ\text{C}$ is 1.216 times the output stated at $\Delta T 50^\circ\text{C}$.

$\Delta T(^{\circ}\text{C})$	Based on $\Delta T50$	$\Delta T(^{\circ}\text{C})$	Based on $\Delta T50$
10	0.126	46	0.898
11	0.142	47	0.923
12	0.159	48	0.949
13	0.176	49	0.974
14	0.194	50	1.000
15	0.212	51	1.026
16	0.230	52	1.052
17	0.249	53	1.078
18	0.268	54	1.104
19	0.287	55	1.131
20	0.307	56	1.157
21	0.327	57	1.184
22	0.347	58	1.211
23	0.368	59	1.238
24	0.388	60	1.265
25	0.409	61	1.292
26	0.431	62	1.320
27	0.452	63	1.347
28	0.474	64	1.375
29	0.496	65	1.403
30	0.518	66	1.430
31	0.540	67	1.458
32	0.563	68	1.487
33	0.585	69	1.515
34	0.608	70	1.543
35	0.632	71	1.572
36	0.655	72	1.600
37	0.678	73	1.629
38	0.702	74	1.658
39	0.726	75	1.687
40	0.750	76	1.716
41	0.774	77	1.745
42	0.799	78	1.774
43	0.823	79	1.804
44	0.848	80	1.833
45	0.873		

Resistance Diagram



How to calculate the resistance of a Multicolumn at ΔT 50°C

Radiator type: MMC3 1012mm LONG x 600mm HIGH

Output @ ΔT 50°C: 1342W (flow/return – 75/65°C)

If the output is not at ΔT 50°C, please use the correction factor table on the previous page to get the correct output.

C –	Specific Heat Constant (always 4187 J/kg°C)			
Q –	(m)	x	(C)	x (ΔT)
Output –	(flow rate)	x	(Constant)	x (difference between flow and return temp)
Watts –	(l/s)		(J/kg°C)	(°C)
2703 –	(m)		(4187)	(10)

Therefore

- m - 1342 / ((4187) X (10))
- m - 0.0320515 (L/S)
- X 3600 (L/H)
- m - 115.4 L/H

Please refer to the resistance diagram which gives a value of approx 9.5mBar.