



# DONOHUE HEATING SERVICES

## HORIZONTAL & VERTICAL COLUMNS DATA SHEETS



# What does Merriott stand for?

We strive to provide bespoke heating and cooling solutions that are the better choice for commercial applications across the UK and Ireland.

This means investing in world-class production facilities, and manufacturing products of the very highest standard – backed by revolutionary technology, rigorous testing and stringent quality control.

As a company, we have an unwavering commitment to innovation and sustainability, pioneering products that lead the way in design, performance and energy efficiency.

Underpinning all of this is our relationship with our customers: ensuring they can rely on best-in-class service and support, from specification right through to delivery.



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# Range Overview

## Product Description

Merriott's Profile radiators offer outputs ranging from 490 watts to 8250 watts per metre at  $\Delta T50^{\circ}\text{C}$ . Comprehensive sizing and output charts are included in this brochure.

The height of the radiator increases in increments of 100mm, from a minimum of 300mm through to 3000mm, for both double and single columns. For Profile radiators with lengths exceeding 900mm, the height is limited to 900mm.

The Profile's length increases in increments of either 1 or 2 elements, depending on the model. Available lengths begin with a minimum of 4 elements to a maximum of 86, or 140mm to 3010mm. For radiators with a height exceeding 900mm, length is limited to 900mm. Where columns are joined, special joiner pieces are available to give the visual effect of one column. One joiner piece will add 20mm to the overall length of the joined radiators. Please contact the your local Merriott contact for further details.

## Outputs

All Merriott radiators are manufactured and tested in accordance with BS EN 442 and the NF quality mark requirements in its state of the art BS EN ISO 9001:2008 accredited manufacturing facility in Newport, Wales.

## Finish

Every Merriott Profile 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 oven baked. 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  $1/2"$  (15mm) Bottom/Bottom Opposite Ends (BBOE) with  $1/2"$  (15mm) air vent at A & C. Other combinations including TBSE, TBOE, BOE, TOE & TTOE. Alternative connection of  $3/4"$  is available upon request.

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

## Testing

The standard test pressure is 7 bar, giving a maximum operating pressure of 5.38 Bar. Other operating pressures are available upon request.

## Brackets and Feet

The Profile can be supplied with welded, extended or retrofit feet at an extra cost.

All Merriott Profile radiators are supplied with wall mounting brackets as standard. Left hand and right hand brackets are used for mounting the S35, S70 and D35 types. The D70 requires a wider bracket.

## Dimensional Tolerances

Dimensional tolerances are in accordance with **EN442**.

## Materials

Merriott's Profile radiators are manufactured from flat steel tube, 70mm x 11mm x 1.5mm or 35mm x 11mm x 1.25mm.

## Element Pitch

An element pitch of 40mm or 50mm is available for 70mm tubes. An element pitch of 35mm is standard on 35mm tubes. For special instructions, please contact your local Merriott contact.

## Baffle Placement

Vertical Profile radiators that are connection TTOE, BBOE, TOE or BOE will have a fully sealed baffle in the flow/return header. Installation sheets are sent with each radiator to show the baffle location.

## 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.

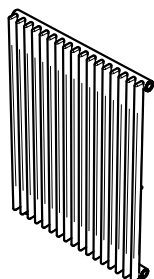
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# Model Options - Horizontal

## S35

**Heights:** from 300-900mm in increments of 100mm

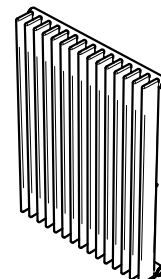
**Lengths:** from 140mm - 3010mm in increments of 35mm



## S70

**Heights:** from 300-900mm in increments of 100mm

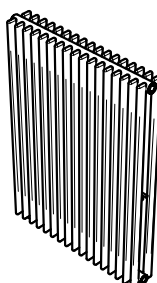
**Lengths:** from 160mm - 3000mm in increments of 40mm OR from 150mm - 3000mm in increments of 50mm (The pitch must be specified at the point of order)



## D35

**Heights:** from 300-900mm in increments of 100mm

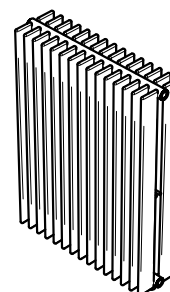
**Lengths:** from 140mm - 3010mm in increments of 35mm



## D70

**Heights:** from 300-900mm in increments of 100mm

**Lengths:** from 160mm - 3000mm in increments of 40mm OR 150mm - 3000mm in increments of 50mm (The pitch must be specified at the point of order)



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### Technical data per element

Style:	S35		D35		S70		D70	
Height mm	Water Content (l)	Dry Weight (kg)	Water Content (l)	Dry Weight (kg)	Water Content (l)	Dry Weight (kg)	Water Content (l)	Dry Weight (kg)
300	0.14	0.34	0.22	0.55	0.21	0.58	0.38	1.18
400	0.16	0.42	0.27	0.74	0.26	0.74	0.48	1.54
500	0.19	0.50	0.33	0.97	0.31	0.90	0.59	1.93
600	0.21	0.58	0.38	1.15	0.36	1.06	0.69	2.29
700	0.23	0.66	0.43	1.32	0.40	1.22	0.80	2.64
800	0.26	0.74	0.48	1.50	0.45	1.38	0.90	3.00
900	0.28	0.82	0.53	1.67	0.50	1.54	1.00	3.36

# Horizontal - S35 / D35

Heat Outputs To BS EN442 Certification

Height 300mm

Height 400mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		16.9	25.6	21.6	34.0
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	68	102	86	136
6	210	101	154	130	204
8	280	135	205	173	272
10	350	169	256	216	340
12	420	203	307	259	408
14	490	237	358	302	476
16	560	270	410	346	544
18	630	304	461	389	612
20	700	338	512	432	680
22	770	372	563	475	748
24	840	406	614	518	816
26	910	439	666	562	884
28	980	473	717	605	952
30	1050	507	768	648	1020
32	1120	541	819	691	1088
34	1190	575	870	734	1156
36	1260	608	922	778	1224
38	1330	642	973	821	1292
40	1400	676	1024	864	1360
42	1470	710	1075	907	1428
44	1540	744	1126	950	1496
46	1610	777	1178	994	1564
48	1680	811	1229	1037	1632
50	1750	845	1280	1080	1700
52	1820	879	1331	1123	1768
54	1890	913	1382	1166	1836
56	1960	946	1434	1210	1904
58	2030	980	1485	1253	1972
60	2100	1014	1536	1296	2040
62	2170	1048	1587	1339	2108
64	2240	1082	1638	1382	2176
66	2310	1115	1690	1426	2244
68	2380	1149	1741	1469	2312
70	2450	1183	1792	1512	2380
72	2520	1217	1843	1555	2448
74	2590	1251	1894	1598	2516
76	2660	1284	1946	1642	2584
78	2730	1318	1997	1685	2652
80	2800	1352	2048	1728	2720
82	2870	1386	2099	1771	2788
84	2940	1420	2150	1814	2856
86	3010	1453	2202	1858	2924

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# Horizontal - S35 / D35

Heat Outputs To BS EN442 Certification

Height 500mm

Height 600mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		26.1	42.2	30.5	49.6
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	104	169	122	198
6	210	157	253	183	298
8	280	209	338	244	397
10	350	261	422	305	496
12	420	313	506	366	595
14	490	365	591	427	694
16	560	418	675	488	794
18	630	470	760	549	893
20	700	522	844	610	992
22	770	574	928	671	1091
24	840	626	1013	732	1190
26	910	679	1097	793	1290
28	980	731	1182	854	1389
30	1050	783	1266	915	1488
32	1120	835	1350	976	1587
34	1190	887	1435	1037	1686
36	1260	940	1519	1098	1786
38	1330	992	1604	1159	1885
40	1400	1044	1688	1220	1984
42	1470	1096	1772	1281	2083
44	1540	1148	1857	1342	2182
46	1610	1201	1941	1403	2282
48	1680	1253	2026	1464	2381
50	1750	1305	2110	1525	2480
52	1820	1357	2194	1586	2579
54	1890	1409	2279	1647	2678
56	1960	1462	2363	1708	2778
58	2030	1514	2448	1769	2877
60	2100	1566	2532	1830	2976
62	2170	1618	2616	1891	3075
64	2240	1670	2701	1952	3174
66	2310	1723	2785	2013	3274
68	2380	1775	2870	2074	3373
70	2450	1827	2954	2135	3472
72	2520	1879	3038	2196	3571
74	2590	1931	3123	2257	3670
76	2660	1984	3207	2318	3770
78	2730	2036	3292	2379	3869
80	2800	2088	3376	2440	3968
82	2870	2140	3460	2501	4067
84	2940	2192	3545	2562	4166
86	3010	2245	3629	2623	4266

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# Horizontal - S35 / D35

Heat Outputs To BS EN442 Certification

Height 700mm

Height 800mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		34.8	56.8	39.1	63.7
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	139	227	156	255
6	210	209	341	235	382
8	280	278	454	313	510
10	350	348	568	391	637
12	420	418	682	469	764
14	490	487	795	547	892
16	560	557	909	626	1019
18	630	626	1022	704	1147
20	700	696	1136	782	1274
22	770	766	1250	860	1401
24	840	835	1363	938	1529
26	910	905	1477	1017	1656
28	980	974	1590	1095	1784
30	1050	1044	1704	1173	1911
32	1120	1114	1818	1251	2038
34	1190	1183	1931	1329	2166
36	1260	1253	2045	1408	2293
38	1330	1322	2158	1486	2421
40	1400	1392	2272	1564	2548
42	1470	1462	2386	1642	2675
44	1540	1531	2499	1720	2803
46	1610	1601	2613	1799	2930
48	1680	1670	2726	1877	3058
50	1750	1740	2840	1955	3185
52	1820	1810	2954	2033	3312
54	1890	1879	3067	2111	3440
56	1960	1949	3181	2190	3567
58	2030	2018	3294	2268	3695
60	2100	2088	3408	2346	3822
62	2170	2158	3522	2424	3949
64	2240	2227	3635	2502	4077
66	2310	2297	3749	2581	4204
68	2380	2366	3862	2659	4332
70	2450	2436	3976	2737	4459
72	2520	2506	4090	2815	4586
74	2590	2575	4203	2893	4714
76	2660	2645	4317	2972	4841
78	2730	2714	4430	3050	4969
80	2800	2784	4544	3128	5096
82	2870	2854	4658	3206	5223
84	2940	2923	4771	3284	5351
86	3010	2993	4885	3363	5478

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# Horizontal - S35 / D35

Heat Outputs To BS EN442 Certification

Height 900mm

S35



D35



Style: Pitch: Watts/element:		S35 35mm 43.4	D35 35mm 70.4
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	140	174	282
6	210	260	422
8	280	347	563
10	350	434	704
12	420	521	845
14	490	608	986
16	560	694	1126
18	630	781	1267
20	700	868	1408
22	770	955	1549
24	840	1042	1690
26	910	1128	1830
28	980	1215	1971
30	1050	1302	2112
32	1120	1389	2253
34	1190	1476	2394
36	1260	1562	2534
38	1330	1649	2675
40	1400	1736	2816
42	1470	1823	2957
44	1540	1910	3098
46	1610	1996	3238
48	1680	2083	3379
50	1750	2170	3520
52	1820	2257	3661
54	1890	2344	3802
56	1960	2430	3942
58	2030	2517	4083
60	2100	2604	4224
62	2170	2691	4365
64	2240	2778	4506
66	2310	2864	4646
68	2380	2951	4787
70	2450	3038	4928
72	2520	3125	5069
74	2590	3212	5210
76	2660	3298	5350
78	2730	3385	5491
80	2800	3472	5632
82	2870	3559	5773
84	2940	3646	5914
86	3010	3732	6054

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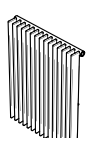
# Horizontal - S70 / D70

Heat Outputs To BS EN442 Certification

Height 300mm

S70

D70

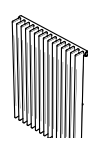


Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		25	35.4
No. of elements	Length (mm)	ΔT50	ΔT50
4	160	100	142
6	240	150	212
8	320	200	283
10	400	250	354
12	480	300	425
14	560	350	496
16	640	400	566
18	720	450	637
20	800	500	708
22	880	550	779
24	960	600	850
26	1040	650	920
28	1120	700	991
30	1200	750	1062
32	1280	800	1133
34	1360	850	1204
36	1440	900	1274
38	1520	950	1345
40	1600	1000	1416
42	1680	1050	1487
44	1760	1100	1558
46	1840	1150	1628
48	1920	1200	1699
50	2000	1250	1770
52	2080	1300	1841
54	2160	1350	1912
56	2240	1400	1982
58	2320	1450	2053
60	2400	1500	2124
62	2480	1550	2195
64	2560	1600	2266
66	2640	1650	2336
68	2720	1700	2407
70	2800	1750	2478
72	2880	1800	2549
74	2960	1850	2620
75	3000	1875	2655

Height 400mm

S70

D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		31.7	47.2
No. of elements	Length (mm)	ΔT50	ΔT50
4	160	127	189
6	240	190	283
8	320	254	378
10	400	317	472
12	480	380	566
14	560	444	661
16	640	507	755
18	720	571	850
20	800	634	944
22	880	697	1038
24	960	761	1133
26	1040	824	1227
28	1120	888	1322
30	1200	951	1416
32	1280	1014	1510
34	1360	1078	1605
36	1440	1141	1699
38	1520	1205	1794
40	1600	1268	1888
42	1680	1331	1982
44	1760	1395	2077
46	1840	1458	2171
48	1920	1522	2266
50	2000	1585	2360
52	2080	1648	2454
54	2160	1712	2549
56	2240	1775	2643
58	2320	1839	2738
60	2400	1902	2832
62	2480	1965	2926
64	2560	2029	3021
66	2640	2092	3115
68	2720	2156	3210
70	2800	2219	3304
72	2880	2282	3398
74	2960	2346	3493
75	3000	2378	3540

# Horizontal - S70 / D70

## Heat Outputs To BS EN442 Certification

Height 500mm

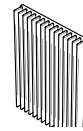
Height 600mm

S70

D70

S70

D70



Style: Pitch: Watts/element:		S70 40mm 38.2	D70 40mm 65.3
No. of elements	Length (mm)	$\Delta T_{50}$	$\Delta T_{50}$
4	160	153	261
6	240	229	392
8	320	306	522
10	400	382	653
12	480	459	784
14	560	535	914
16	640	611	1045
18	720	688	1175
20	800	764	1306
22	880	841	1437
24	960	917	1567
26	1040	993	1698
28	1120	1070	1828
30	1200	1146	1959
32	1280	1223	2090
34	1360	1299	2220
36	1440	1375	2351
38	1520	1452	2481
40	1600	1528	2612
42	1680	1605	2743
44	1760	1681	2873
46	1840	1757	3004
48	1920	1834	3134
50	2000	1910	3265
52	2080	1987	3396
54	2160	2063	3526
56	2240	2139	3657
58	2320	2216	3787
60	2400	2292	3918
62	2480	2369	4049
64	2560	2445	4179
66	2640	2521	4310
68	2720	2598	4440
70	2800	2674	4571
72	2880	2751	4702
74	2960	2827	4832
75	3000	2865	4898

Style: Pitch: Watts/element:		S70 40mm 44.6	D70 40mm 76.1
No. of elements	Length (mm)	$\Delta T_{50}$	$\Delta T_{50}$
4	160	178	304
6	240	268	457
8	320	357	609
10	400	446	761
12	480	535	913
14	560	624	1065
16	640	714	1218
18	720	803	1370
20	800	892	1522
22	880	981	1674
24	960	1070	1826
26	1040	1160	1979
28	1120	1249	2131
30	1200	1338	2283
32	1280	1427	2435
34	1360	1516	2587
36	1440	1606	2740
38	1520	1695	2892
40	1600	1784	3044
42	1680	1873	3196
44	1760	1962	3348
46	1840	2052	3501
48	1920	2141	3653
50	2000	2230	3805
52	2080	2319	3957
54	2160	2408	4109
56	2240	2498	4262
58	2320	2587	4414
60	2400	2676	4566
62	2480	2765	4718
64	2560	2854	4870
66	2640	2944	5023
68	2720	3033	5175
70	2800	3122	5327
72	2880	3211	5479
74	2960	3300	5631
75	3000	3345	5708

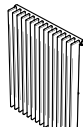
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# Horizontal - S70 / D70

Heat Outputs To BS EN442 Certification

S70

D70



S70

D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		50.8	86.7
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	203	347
6	240	305	520
8	320	406	694
10	400	508	867
12	480	610	1040
14	560	711	1214
16	640	813	1387
18	720	914	1561
20	800	1016	1734
22	880	1118	1907
24	960	1219	2081
26	1040	1321	2254
28	1120	1422	2428
30	1200	1524	2601
32	1280	1626	2774
34	1360	1727	2948
36	1440	1829	3121
38	1520	1930	3295
40	1600	2032	3468
42	1680	2134	3641
44	1760	2235	3815
46	1840	2337	3988
48	1920	2438	4162
50	2000	2540	4335
52	2080	2642	4508
54	2160	2743	4682
56	2240	2845	4855
58	2320	2946	5029
60	2400	3048	5202
62	2480	3150	5375
64	2560	3251	5549
66	2640	3353	5722
68	2720	3454	5896
70	2800	3556	6069
72	2880	3658	6242
74	2960	3759	6416
75	3000	3810	6503

Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		56.9	97.2
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	228	389
6	240	341	583
8	320	455	778
10	400	569	972
12	480	683	1166
14	560	797	1361
16	640	910	1555
18	720	1024	1750
20	800	1138	1944
22	880	1252	2138
24	960	1366	2333
26	1040	1479	2527
28	1120	1593	2722
30	1200	1707	2916
32	1280	1821	3110
34	1360	1935	3305
36	1440	2048	3499
38	1520	2162	3694
40	1600	2276	3888
42	1680	2390	4082
44	1760	2504	4277
46	1840	2617	4471
48	1920	2731	4666
50	2000	2845	4860
52	2080	2959	5054
54	2160	3073	5249
56	2240	3186	5443
58	2320	3300	5638
60	2400	3414	5832
62	2480	3528	6026
64	2560	3642	6221
66	2640	3755	6415
68	2720	3869	6610
70	2800	3983	6804
72	2880	4097	6998
74	2960	4211	7193
75	3000	4268	7290

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# Horizontal - S70 / D70

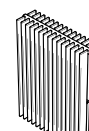
Heat Outputs To BS EN442 Certification

Height 900mm

S70



D70



Style: Pitch: Watts/element:		S70 40mm 63	D70 40mm 108
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	252	432
6	240	378	648
8	320	504	864
10	400	630	1080
12	480	756	1296
14	560	882	1512
16	640	1008	1728
18	720	1134	1944
20	800	1260	2160
22	880	1386	2376
24	960	1512	2592
26	1040	1638	2808
28	1120	1764	3024
30	1200	1890	3240
32	1280	2016	3456
34	1360	2142	3672
36	1440	2268	3888
38	1520	2394	4104
40	1600	2520	4320
42	1680	2646	4536
44	1760	2772	4752
46	1840	2898	4968
48	1920	3024	5184
50	2000	3150	5400
52	2080	3276	5616
54	2160	3402	5832
56	2240	3528	6048
58	2320	3654	6264
60	2400	3780	6480
62	2480	3906	6696
64	2560	4032	6912
66	2640	4158	7128
68	2720	4284	7344
70	2800	4410	7560
72	2880	4536	7776
74	2960	4662	7992
75	3000	4725	8100

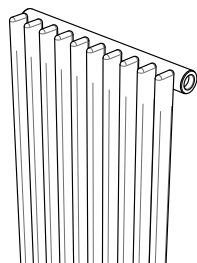
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# Model Options - Vertical

## S35

**Heights:** from 1000mm - 3000mm  
in increments of 100mm

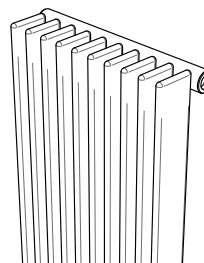
**Lengths:** from 140mm - 980mm  
in increments of 35mm



## S70

**Heights:** from 1000mm - 3000mm  
in increments of 100mm

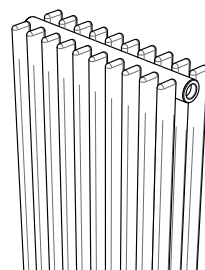
**Lengths:** from 160mm - 960mm  
in increments of 40mm OR from  
150mm - 950mm in increments  
of 50mm (The pitch must be  
specified at the point of order)



## D35

**Heights:** from 1000mm - 3000mm  
in increments of 100mm

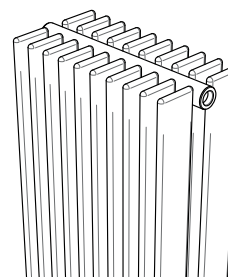
**Lengths:** from 140mm - 980mm  
in increments of 35mm



## D70

**Heights:** from 1000mm - 3000mm  
in increments of 100mm

**Lengths:** from 160mm - 960mm  
in increments of 40mm OR from  
150mm - 950mm in increments  
of 50mm (The pitch must be  
specified at the point of order)



### Technical data per element

Style:	S35		D35		S70		D70	
Height mm	Water Content (l)	Dry Weight (kg)	Water Content (l)	Dry Weight (kg)	Water Content (l)	Dry Weight (kg)	Water Content (l)	Dry Weight (kg)
1000	0.31	0.90	0.59	1.85	0.55	1.70	1.11	3.72
1100	0.33	0.98	0.64	2.08	0.60	1.86	1.21	4.08
1200	0.36	1.06	0.69	2.32	0.65	2.02	1.32	4.45
1300	0.38	1.14	0.74	2.42	0.69	2.18	1.42	4.81
1400	0.40	1.22	0.80	2.52	0.74	2.34	1.53	5.18
1500	0.43	1.30	0.85	2.70	0.79	2.50	1.63	5.54
1600	0.45	1.38	0.90	2.88	0.84	2.66	1.74	5.91
1700	0.48	1.46	0.95	3.11	0.89	2.82	1.84	6.27
1800	0.50	1.54	1.00	3.35	0.94	2.98	1.94	6.64
1900	0.52	1.62	1.06	3.57	0.98	3.14	2.05	7.01
2000	0.55	1.70	1.11	3.80	1.03	3.30	2.15	7.38
2100	0.57	1.78	1.16	3.97	1.08	3.46	2.26	7.74
2200	0.60	1.86	1.21	4.15	1.13	3.62	2.36	8.11
2300	0.62	1.94	1.27	4.32	1.18	3.78	2.47	8.48
2400	0.65	2.02	1.32	4.50	1.23	3.94	2.57	8.85
2500	0.67	2.10	1.37	4.70	1.28	4.10	2.68	9.21
2600	0.69	2.18	1.42	4.90	1.32	4.26	2.78	9.56
2700	0.72	2.26	1.47	5.10	1.37	4.42	2.89	9.93
2800	0.74	2.34	1.53	5.24	1.42	4.58	2.99	10.29
2900	0.77	2.42	1.58	5.43	1.47	4.74	3.09	10.66
3000	0.79	2.50	1.63	5.62	1.52	4.90	3.20	11.02

# Vertical - S35 / D35

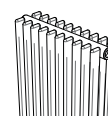
Heat Outputs To BS EN442 Certification

Height 1000mm

S35



D35



Style: Pitch: Watts/element:		S35 35mm 477	D35 35mm 770
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	140	191	308
5	175	239	385
6	210	286	462
7	245	334	539
8	280	382	616
9	315	429	693
10	350	477	770
11	385	525	847
12	420	572	924
13	455	620	1001
14	490	668	1078
15	525	716	1155
16	560	763	1232
17	595	811	1309
18	630	859	1386
19	665	906	1463
20	700	954	1540
21	735	1002	1617
22	770	1049	1694
23	805	1097	1771
24	840	1145	1848
25	875	1193	1925



# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 1100mm

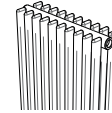
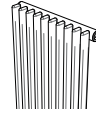
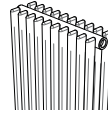
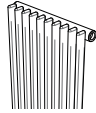
Height 1200mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		51.65	83.2	56.2	89.4
No. of elements	Length (mm)	$\Delta T_{50}$	$\Delta T_{50}$	$\Delta T_{50}$	$\Delta T_{50}$
4	140	207	333	225	358
5	175	258	416	281	447
6	210	310	499	337	536
7	245	362	582	393	626
8	280	413	666	450	715
9	315	465	749	506	805
10	350	517	832	562	894
11	385	568	915	618	983
12	420	620	998	674	1073
13	455	671	1082	731	1162
14	490	723	1165	787	1252
15	525	775	1248	843	1341
16	560	826	1331	899	1430
17	595	878	1414	955	1520
18	630	930	1498	1012	1609
19	665	981	1581	1068	1699
20	700	1033	1664	1124	1788
21	735	1085	1747	1180	1877
22	770	1136	1830	1236	1967
23	805	1188	1914	1293	2056
24	840	1240	1997	1349	2146
25	875	1291	2080	1405	2235

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# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 1300mm

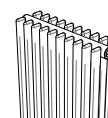
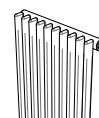
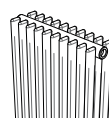
Height 1400mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		60.45	95.2	65	101
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	242	381	260	404
5	175	302	476	325	505
6	210	363	571	390	606
7	245	423	666	455	707
8	280	484	762	520	808
9	315	544	857	585	909
10	350	605	952	650	1010
11	385	665	1047	715	1111
12	420	725	1142	780	1212
13	455	786	1238	845	1313
14	490	846	1333	910	1414
15	525	907	1428	975	1515
16	560	967	1523	1040	1616
17	595	1028	1618	1105	1717
18	630	1088	1714	1170	1818
19	665	1149	1809	1235	1919
20	700	1209	1904	1300	2020
21	735	1269	1999	1365	2121
22	770	1330	2094	1430	2222
23	805	1390	2190	1495	2323
24	840	1451	2285	1560	2424
25	875	1511	2380	1625	2525

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# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 1500mm

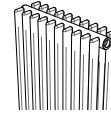
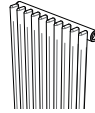
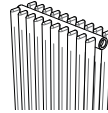
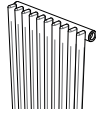
Height 1600mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		69	107	73.3	112
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	276	428	293	448
5	175	345	535	367	560
6	210	414	642	440	672
7	245	483	749	513	784
8	280	552	856	586	896
9	315	621	963	660	1008
10	350	690	1070	733	1120
11	385	759	1177	806	1232
12	420	828	1284	880	1344
13	455	897	1391	953	1456
14	490	966	1498	1026	1568
15	525	1035	1605	1100	1680
16	560	1104	1712	1173	1792
17	595	1173	1819	1246	1904
18	630	1242	1926	1319	2016
19	665	1311	2033	1393	2128
20	700	1380	2140	1466	2240
21	735	1449	2247	1539	2352
22	770	1518	2354	1613	2464
23	805	1587	2461	1686	2576
24	840	1656	2568	1759	2688
25	875	1725	2675	1833	2800

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# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 1700mm

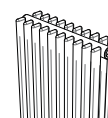
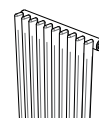
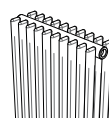
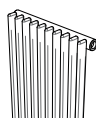
Height 1800mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		77.6	117.5	81.9	123
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	310	470	328	492
5	175	388	588	410	615
6	210	466	705	491	738
7	245	543	823	573	861
8	280	621	940	655	984
9	315	698	1058	737	1107
10	350	776	1175	819	1230
11	385	854	1293	901	1353
12	420	931	1410	983	1476
13	455	1009	1528	1065	1599
14	490	1086	1645	1147	1722
15	525	1164	1763	1229	1845
16	560	1242	1880	1310	1968
17	595	1319	1998	1392	2091
18	630	1397	2115	1474	2214
19	665	1474	2233	1556	2337
20	700	1552	2350	1638	2460
21	735	1630	2468	1720	2583
22	770	1707	2585	1802	2706
23	805	1785	2703	1884	2829
24	840	1862	2820	1966	2952
25	875	1940	2938	2048	3075

# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 1900mm

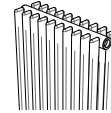
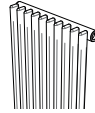
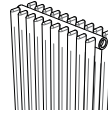
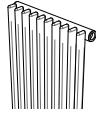
Height 2000mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		86.3	128	90.7	133
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	345	512	363	532
5	175	432	640	454	665
6	210	518	768	544	798
7	245	604	896	635	931
8	280	690	1024	726	1064
9	315	777	1152	816	1197
10	350	863	1280	907	1330
11	385	949	1408	998	1463
12	420	1036	1536	1088	1596
13	455	1122	1664	1179	1729
14	490	1208	1792	1270	1862
15	525	1295	1920	1361	1995
16	560	1381	2048	1451	2128
17	595	1467	2176	1542	2261
18	630	1553	2304	1633	2394
19	665	1640	2432	1723	2527
20	700	1726	2560	1814	2660
21	735	1812	2688	1905	2793
22	770	1899	2816	1995	2926
23	805	1985	2944	2086	3059
24	840	2071	3072	2177	3192
25	875	2158	3200	2268	3325

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# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 2100mm

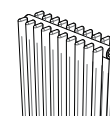
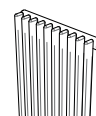
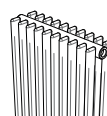
Height 2200mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		95.1	137.5	99.5	142
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	380	550	398	568
5	175	476	688	498	710
6	210	571	825	597	852
7	245	666	963	697	994
8	280	761	1100	796	1136
9	315	856	1238	896	1278
10	350	951	1375	995	1420
11	385	1046	1513	1095	1562
12	420	1141	1650	1194	1704
13	455	1236	1788	1294	1846
14	490	1331	1925	1393	1988
15	525	1427	2063	1493	2130
16	560	1522	2200	1592	2272
17	595	1617	2338	1692	2414
18	630	1712	2475	1791	2556
19	665	1807	2613	1891	2698
20	700	1902	2750	1990	2840
21	735	1997	2888	2090	2982
22	770	2092	3025	2189	3124
23	805	2187	3163	2289	3266
24	840	2282	3300	2388	3408
25	875	2378	3438	2488	3550

# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 2300mm

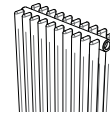
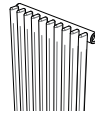
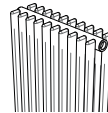
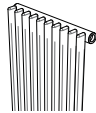
Height 2400mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		104.25	146.5	109	151
No. of elements	Length (mm)	$\Delta T_{50}$	$\Delta T_{50}$	$\Delta T_{50}$	$\Delta T_{50}$
4	140	417	586	436	604
5	175	521	733	545	755
6	210	626	879	654	906
7	245	730	1026	763	1057
8	280	834	1172	872	1208
9	315	938	1319	981	1359
10	350	1043	1465	1090	1510
11	385	1147	1612	1199	1661
12	420	1251	1758	1308	1812
13	455	1355	1905	1417	1963
14	490	1460	2051	1526	2114
15	525	1564	2198	1635	2265
16	560	1668	2344	1744	2416
17	595	1772	2491	1853	2567
18	630	1877	2637	1962	2718
19	665	1981	2784	2071	2869
20	700	2085	2930	2180	3020
21	735	2189	3077	2289	3171
22	770	2294	3223	2398	3322
23	805	2398	3370	2507	3473
24	840	2502	3516	2616	3624
25	875	2606	3663	2725	3775

20 /

# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 2500mm

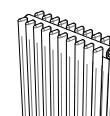
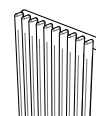
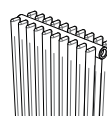
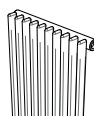
Height 2600mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		113	155	117.5	161.2
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	452	620	470	645
5	175	565	775	588	806
6	210	678	930	705	967
7	245	791	1085	823	1128
8	280	904	1240	940	1290
9	315	1017	1395	1058	1451
10	350	1130	1550	1175	1612
11	385	1243	1705	1293	1773
12	420	1356	1860	1410	1934
13	455	1469	2015	1528	2096
14	490	1582	2170	1645	2257
15	525	1695	2325	1763	2418
16	560	1808	2480	1880	2579
17	595	1921	2635	1998	2740
18	630	2034	2790	2115	2902
19	665	2147	2945	2233	3063
20	700	2260	3100	2350	3224
21	735	2373	3255	2468	3385
22	770	2486	3410	2585	3546
23	805	2599	3565	2703	3708
24	840	2712	3720	2820	3869
25	875	2825	3875	2938	4030

# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 2700mm

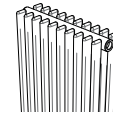
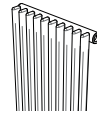
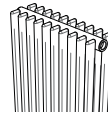
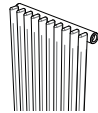
Height 2800mm

S35

D35

S35

D35



Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		122.1	167.4	126.6	173.6
No. of elements	Length (mm)	$\Delta T_{50}$	$\Delta T_{50}$	$\Delta T_{50}$	$\Delta T_{50}$
4	140	488	670	506	694
5	175	611	837	633	868
6	210	733	1004	760	1042
7	245	855	1172	886	1215
8	280	977	1339	1013	1389
9	315	1099	1507	1139	1562
10	350	1221	1674	1266	1736
11	385	1343	1841	1393	1910
12	420	1465	2009	1519	2083
13	455	1587	2176	1646	2257
14	490	1709	2344	1772	2430
15	525	1832	2511	1899	2604
16	560	1954	2678	2026	2778
17	595	2076	2846	2152	2951
18	630	2198	3013	2279	3125
19	665	2320	3181	2405	3298
20	700	2442	3348	2532	3472
21	735	2564	3515	2659	3646
22	770	2686	3683	2785	3819
23	805	2808	3850	2912	3993
24	840	2930	4018	3038	4166
25	875	3053	4185	3165	4340



# Vertical - S35 / D35

Heat Outputs To BS EN442 Certification

Height 2900mm

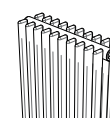
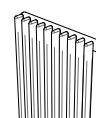
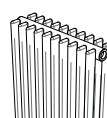
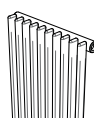
Height 3000mm

S35

D35

S35

D35



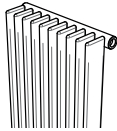
Style:		S35	D35	S35	D35
Pitch:		35mm	35mm	35mm	35mm
Watts/element:		131.1	179.8	135.6	186
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$	$\Delta T50$	$\Delta T50$
4	140	524	719	542	744
5	175	656	899	678	930
6	210	787	1079	814	1116
7	245	918	1259	949	1302
8	280	1049	1438	1085	1488
9	315	1180	1618	1220	1674
10	350	1311	1798	1356	1860
11	385	1442	1978	1492	2046
12	420	1573	2158	1627	2232
13	455	1704	2337	1763	2418
14	490	1835	2517	1898	2604
15	525	1967	2697	2034	2790
16	560	2098	2877	2170	2976
17	595	2229	3057	2305	3162
18	630	2360	3236	2441	3348
19	665	2491	3416	2576	3534
20	700	2622	3596	2712	3720
21	735	2753	3776	2848	3906
22	770	2884	3956	2983	4092
23	805	3015	4135	3119	4278
24	840	3146	4315	3254	4464
25	875	3278	4495	3390	4650

# Vertical - S70 / D70

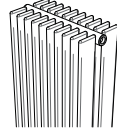
Heat Outputs To BS EN442 Certification

Height 1000mm

S70

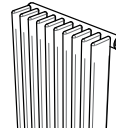


D70

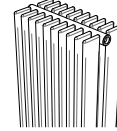


Height 1100mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		69.1	118
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	276	472
5	200	346	590
6	240	415	708
7	280	484	826
8	320	553	944
9	360	622	1062
10	400	691	1180
11	440	760	1298
12	480	829	1416
13	520	898	1534
14	560	967	1652
15	600	1037	1770
16	640	1106	1888
17	680	1175	2006
18	720	1244	2124
19	760	1313	2242
20	800	1382	2360
21	840	1451	2478
22	880	1520	2596

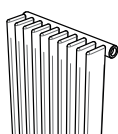
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		75.15	128.5
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	301	514
5	200	376	643
6	240	451	771
7	280	526	900
8	320	601	1028
9	360	676	1157
10	400	752	1285
11	440	827	1414
12	480	902	1542
13	520	977	1671
14	560	1052	1799
15	600	1127	1928
16	640	1202	2056
17	680	1278	2185
18	720	1353	2313
19	760	1428	2442
20	800	1503	2570
21	840	1578	2699
22	880	1653	2827

# Vertical - S70 / D70

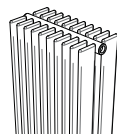
Heat Outputs To BS EN442 Certification

Height 1200mm

S70

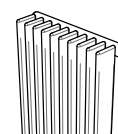


D70



Height 1300mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		81.2	139
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	325	556
5	200	406	695
6	240	487	834
7	280	568	973
8	320	650	1112
9	360	731	1251
10	400	812	1390
11	440	893	1529
12	480	974	1668
13	520	1056	1807
14	560	1137	1946
15	600	1218	2085
16	640	1299	2224
17	680	1380	2363
18	720	1462	2502
19	760	1543	2641
20	800	1624	2780
21	840	1705	2919
22	880	1786	3058

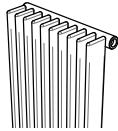
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		87.25	149
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	349	596
5	200	436	745
6	240	524	894
7	280	611	1043
8	320	698	1192
9	360	785	1341
10	400	873	1490
11	440	960	1639
12	480	1047	1788
13	520	1134	1937
14	560	1222	2086
15	600	1309	2235
16	640	1396	2384
17	680	1483	2533
18	720	1571	2682
19	760	1658	2831
20	800	1745	2980
21	840	1832	3129
22	880	1920	3278

# Vertical - S70 / D70

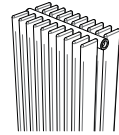
Heat Outputs To BS EN442 Certification

Height 1400mm

S70

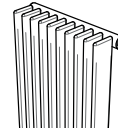


D70

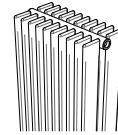


Height 1500mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		93.3	159
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	373	636
5	200	467	795
6	240	560	954
7	280	653	1113
8	320	746	1272
9	360	840	1431
10	400	933	1590
11	440	1026	1749
12	480	1120	1908
13	520	1213	2067
14	560	1306	2226
15	600	1400	2385
16	640	1493	2544
17	680	1586	2703
18	720	1679	2862
19	760	1773	3021
20	800	1866	3180
21	840	1959	3339
22	880	2053	3498

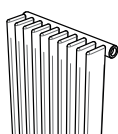
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		99.15	169.5
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	397	678
5	200	496	848
6	240	595	1017
7	280	694	1187
8	320	793	1356
9	360	892	1526
10	400	992	1695
11	440	1091	1865
12	480	1190	2034
13	520	1289	2204
14	560	1388	2373
15	600	1487	2543
16	640	1586	2712
17	680	1686	2882
18	720	1785	3051
19	760	1884	3221
20	800	1983	3390
21	840	2082	3560
22	880	2181	3729

# Vertical - S70 / D70

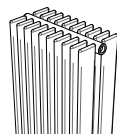
Heat Outputs To BS EN442 Certification

Height 1600mm

S70

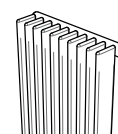


D70



Height 1700mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		105	180
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	420	720
5	200	525	900
6	240	630	1080
7	280	735	1260
8	320	840	1440
9	360	945	1620
10	400	1050	1800
11	440	1155	1980
12	480	1260	2160
13	520	1365	2340
14	560	1470	2520
15	600	1575	2700
16	640	1680	2880
17	680	1785	3060
18	720	1890	3240
19	760	1995	3420
20	800	2100	3600
21	840	2205	3780
22	880	2310	3960

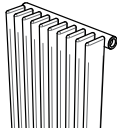
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		111.5	190.5
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	446	762
5	200	558	953
6	240	669	1143
7	280	781	1334
8	320	892	1524
9	360	1004	1715
10	400	1115	1905
11	440	1227	2096
12	480	1338	2286
13	520	1450	2477
14	560	1561	2667
15	600	1673	2858
16	640	1784	3048
17	680	1896	3239
18	720	2007	3429
19	760	2119	3620
20	800	2230	3810
21	840	2342	4001
22	880	2453	4191

# Vertical - S70 / D70

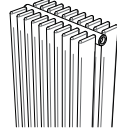
Heat Outputs To BS EN442 Certification

Height 1800mm

S70

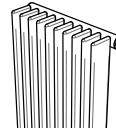


D70

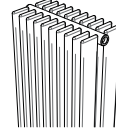


Height 1900mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		118	201
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	472	804
5	200	590	1005
6	240	708	1206
7	280	826	1407
8	320	944	1608
9	360	1062	1809
10	400	1180	2010
11	440	1298	2211
12	480	1416	2412
13	520	1534	2613
14	560	1652	2814
15	600	1770	3015
16	640	1888	3216
17	680	2006	3417
18	720	2124	3618
19	760	2242	3819
20	800	2360	4020
21	840	2478	4221
22	880	2596	4422

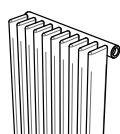
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		124	211.5
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	496	846
5	200	620	1058
6	240	744	1269
7	280	868	1481
8	320	992	1692
9	360	1116	1904
10	400	1240	2115
11	440	1364	2327
12	480	1488	2538
13	520	1612	2750
14	560	1736	2961
15	600	1860	3173
16	640	1984	3384
17	680	2108	3596
18	720	2232	3807
19	760	2356	4019
20	800	2480	4230
21	840	2604	4442
22	880	2728	4653

# Vertical - S70 / D70

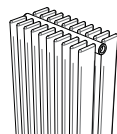
Heat Outputs To BS EN442 Certification

Height 2000mm

S70

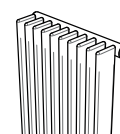


D70



Height 2100mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		130	222
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	520	888
5	200	650	1110
6	240	780	1332
7	280	910	1554
8	320	1040	1776
9	360	1170	1998
10	400	1300	2220
11	440	1430	2442
12	480	1560	2664
13	520	1690	2886
14	560	1820	3108
15	600	1950	3330
16	640	2080	3552
17	680	2210	3774
18	720	2340	3996
19	760	2470	4218
20	800	2600	4440
21	840	2730	4662
22	880	2860	4884

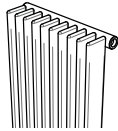
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		136.5	233
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	546	932
5	200	683	1165
6	240	819	1398
7	280	956	1631
8	320	1092	1864
9	360	1229	2097
10	400	1365	2330
11	440	1502	2563
12	480	1638	2796
13	520	1775	3029
14	560	1911	3262
15	600	2048	3495
16	640	2184	3728
17	680	2321	3961
18	720	2457	4194
19	760	2594	4427
20	800	2730	4660
21	840	2867	4893
22	880	3003	5126

# Vertical - S70 / D70

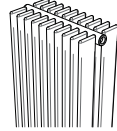
Heat Outputs To BS EN442 Certification

Height 2200mm

S70

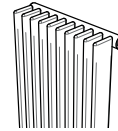


D70

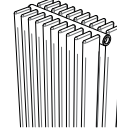


Height 2300mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		143	244
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	572	976
5	200	715	1220
6	240	858	1464
7	280	1001	1708
8	320	1144	1952
9	360	1287	2196
10	400	1430	2440
11	440	1573	2684
12	480	1716	2928
13	520	1859	3172
14	560	2002	3416
15	600	2145	3660
16	640	2288	3904
17	680	2431	4148
18	720	2574	4392
19	760	2717	4636
20	800	2860	4880
21	840	3003	5124
22	880	3146	5368

Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		149	254.5
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	596	1018
5	200	745	1273
6	240	894	1527
7	280	1043	1782
8	320	1192	2036
9	360	1341	2291
10	400	1490	2545
11	440	1639	2800
12	480	1788	3054
13	520	1937	3309
14	560	2086	3563
15	600	2235	3818
16	640	2384	4072
17	680	2533	4327
18	720	2682	4581
19	760	2831	4836
20	800	2980	5090
21	840	3129	5345
22	880	3278	5599

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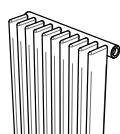


# Vertical - S70 / D70

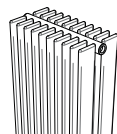
Heat Outputs To BS EN442 Certification

Height 2400mm

S70

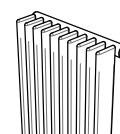


D70



Height 2500mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		155	265
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	620	1060
5	200	775	1325
6	240	930	1590
7	280	1085	1855
8	320	1240	2120
9	360	1395	2385
10	400	1550	2650
11	440	1705	2915
12	480	1860	3180
13	520	2015	3445
14	560	2170	3710
15	600	2325	3975
16	640	2480	4240
17	680	2635	4505
18	720	2790	4770
19	760	2945	5035
20	800	3100	5300
21	840	3255	5565
22	880	3410	5830

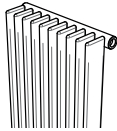
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		162	276
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	648	1104
5	200	810	1380
6	240	972	1656
7	280	1134	1932
8	320	1296	2208
9	360	1458	2484
10	400	1620	2760
11	440	1782	3036
12	480	1944	3312
13	520	2106	3588
14	560	2268	3864
15	600	2430	4140
16	640	2592	4416
17	680	2754	4692
18	720	2916	4968
19	760	3078	5244
20	800	3240	5520
21	840	3402	5796
22	880	3564	6072

# Vertical - S70 / D70

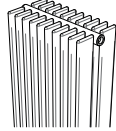
Heat Outputs To BS EN442 Certification

Height 2600mm

S70

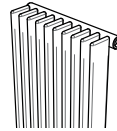


D70

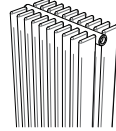


Height 2700mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		169	287
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	676	1148
5	200	845	1435
6	240	1014	1722
7	280	1183	2009
8	320	1352	2296
9	360	1521	2583
10	400	1690	2870
11	440	1859	3157
12	480	2028	3444
13	520	2197	3731
14	560	2366	4018
15	600	2535	4305
16	640	2704	4592
17	680	2873	4879
18	720	3042	5166
19	760	3211	5453
20	800	3380	5740
21	840	3549	6027
22	880	3718	6314

Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		175.5	297
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	702	1188
5	200	878	1485
6	240	1053	1782
7	280	1229	2079
8	320	1404	2376
9	360	1580	2673
10	400	1755	2970
11	440	1931	3267
12	480	2106	3564
13	520	2282	3861
14	560	2457	4158
15	600	2633	4455
16	640	2808	4752
17	680	2984	5049
18	720	3159	5346
19	760	3335	5643
20	800	3510	5940
21	840	3686	6237
22	880	3861	6534

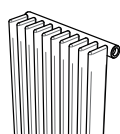
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# Vertical - S70 / D70

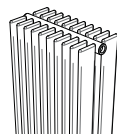
Heat Outputs To BS EN442 Certification

Height 2800mm

S70

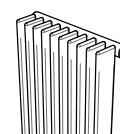


D70



Height 2900mm

S70



D70



Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		182	308
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	728	1232
5	200	910	1540
6	240	1092	1848
7	280	1274	2156
8	320	1456	2464
9	360	1638	2772
10	400	1820	3080
11	440	2002	3388
12	480	2184	3696
13	520	2366	4004
14	560	2548	4312
15	600	2730	4620
16	640	2912	4928
17	680	3094	5236
18	720	3276	5544
19	760	3458	5852
20	800	3640	6160
21	840	3822	6468
22	880	4004	6776

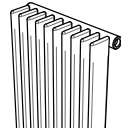
Style:		S70	D70
Pitch:		40mm	40mm
Watts/element:		188.5	319
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	754	1276
5	200	943	1595
6	240	1131	1914
7	280	1320	2233
8	320	1508	2552
9	360	1697	2871
10	400	1885	3190
11	440	2074	3509
12	480	2262	3828
13	520	2451	4147
14	560	2639	4466
15	600	2828	4785
16	640	3016	5104
17	680	3205	5423
18	720	3393	5742
19	760	3582	6061
20	800	3770	6380
21	840	3959	6699
22	880	4147	7018

# Vertical - S70 / D70

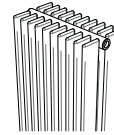
Heat Outputs To BS EN442 Certification

Height 3000mm

S70



D70

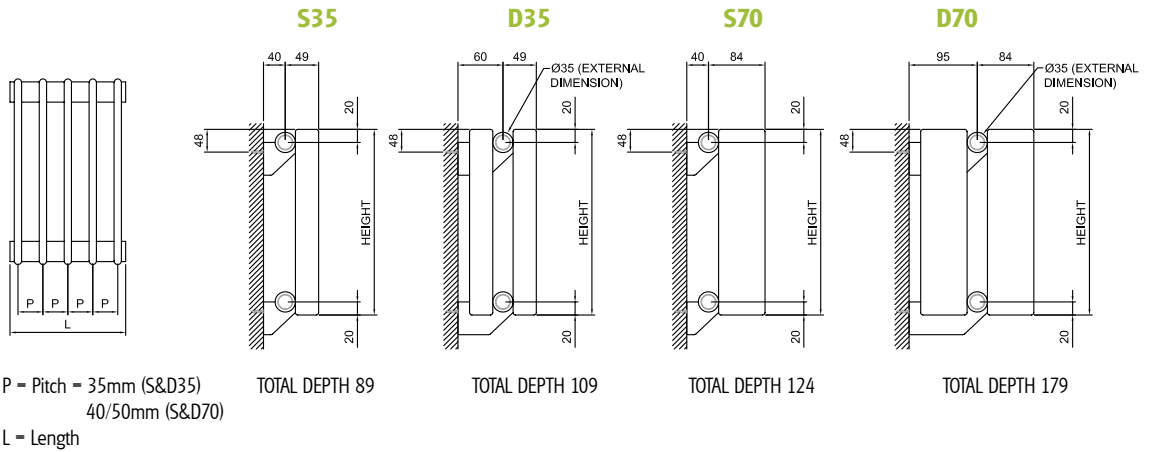


Style: Pitch: Watts/element:		S70 40mm 195	D70 40mm 330
No. of elements	Length (mm)	$\Delta T50$	$\Delta T50$
4	160	780	1320
5	200	975	1650
6	240	1170	1980
7	280	1365	2310
8	320	1560	2640
9	360	1755	2970
10	400	1950	3300
11	440	2145	3630
12	480	2340	3960
13	520	2535	4290
14	560	2730	4620
15	600	2925	4950
16	640	3120	5280
17	680	3315	5610
18	720	3510	5940
19	760	3705	6270
20	800	3900	6600
21	840	4095	6930
22	880	4290	7260

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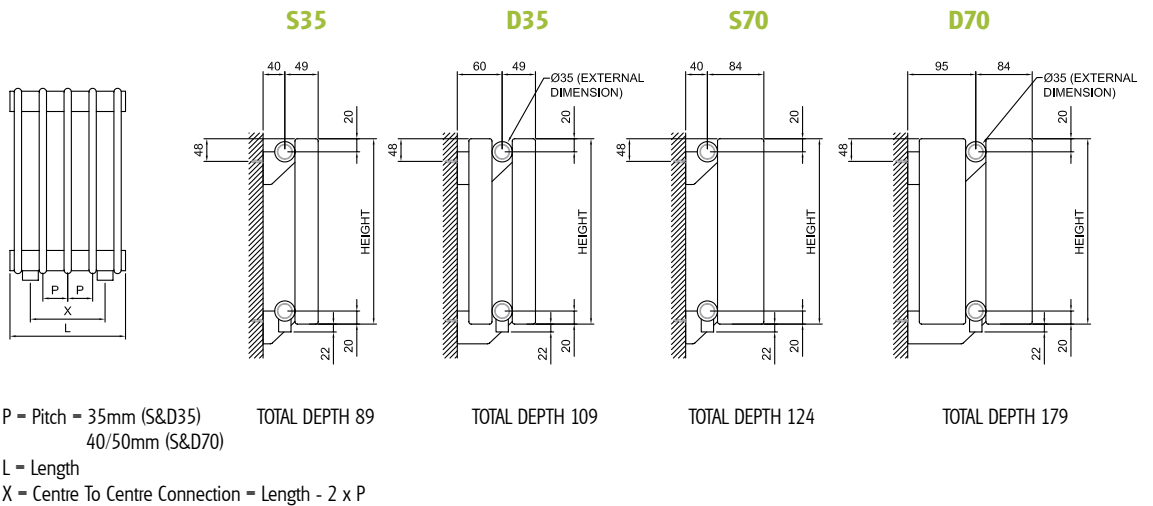
# Connection Details

## ABCD connections



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## EFGH connections



# Mounting Options

## Floor - Mounting

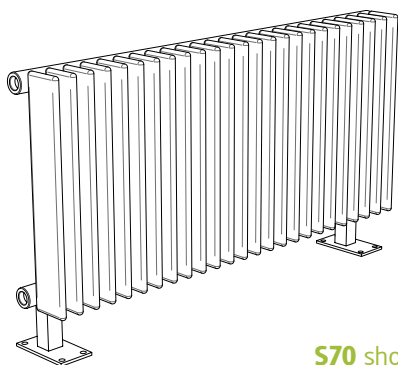
Floor-mounting brackets (feet) are available for all Merriott's Profile radiators, at an additional cost. The options for floor-mounting are:

- 1) Welded Feet
- 2) Extended Element Feet
- 3) Retrofit Feet

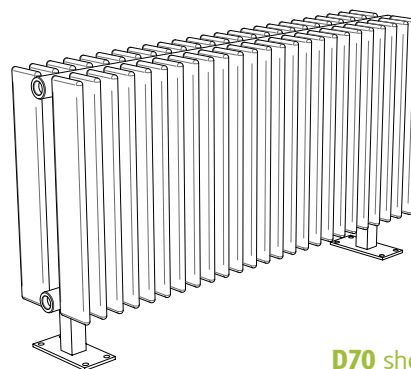
Option 1 can be fitted at the time of order, or can be retrofitted (Option 3). Option 2 can only be supplied as part of the radiator and must be specified at the time of order. For floor-mounted Profiles above 500mm high (radiator and feet included), it is strongly recommended to also add top supports to ensure stability. Please contact the Merriott Sales Office if additional information is required.

## Welded feet

Available for all types of Profile radiators



S70 shown

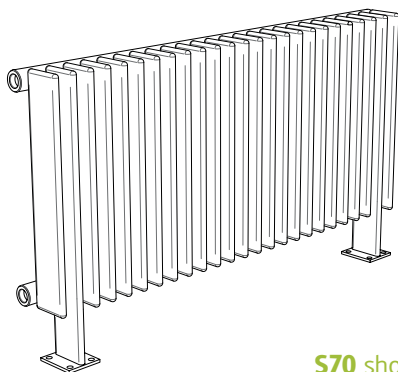


D70 shown

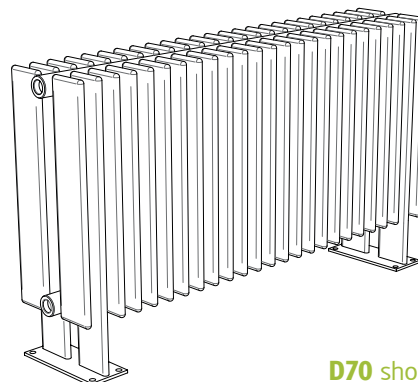
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## Extended element feet

Available for all types of Profile radiators



S70 shown



D70 shown

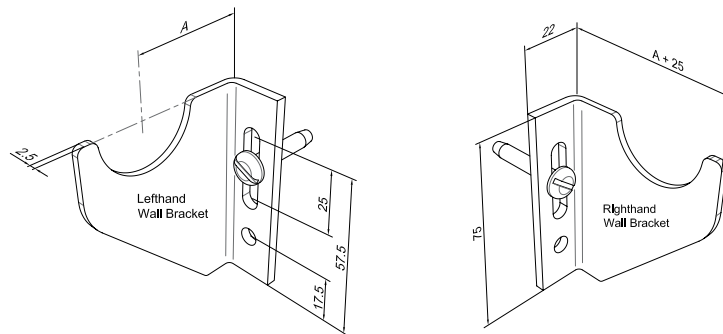


# Bracket Details

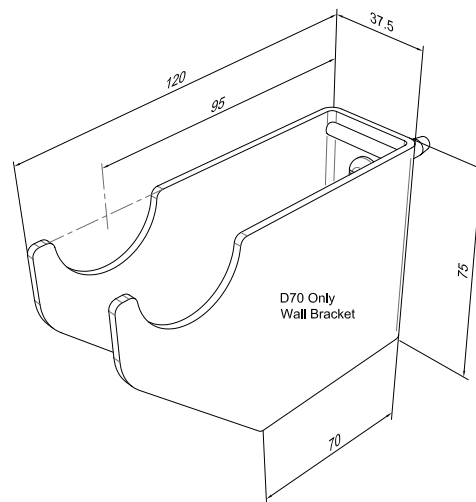
## Brackets

All Merriott's Profile radiators are supplied as standard with wall-mounting brackets. Lefthand and righthand brackets are used for mounting the S35, S70 and D35 types. The D70 requires a wider bracket.

## Brackets for S35, S70 & D35.



## Bracket for D70



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Type	Dimension A
<b>D35</b>	60mm
<b>S35</b>	40mm
<b>S70</b>	40mm

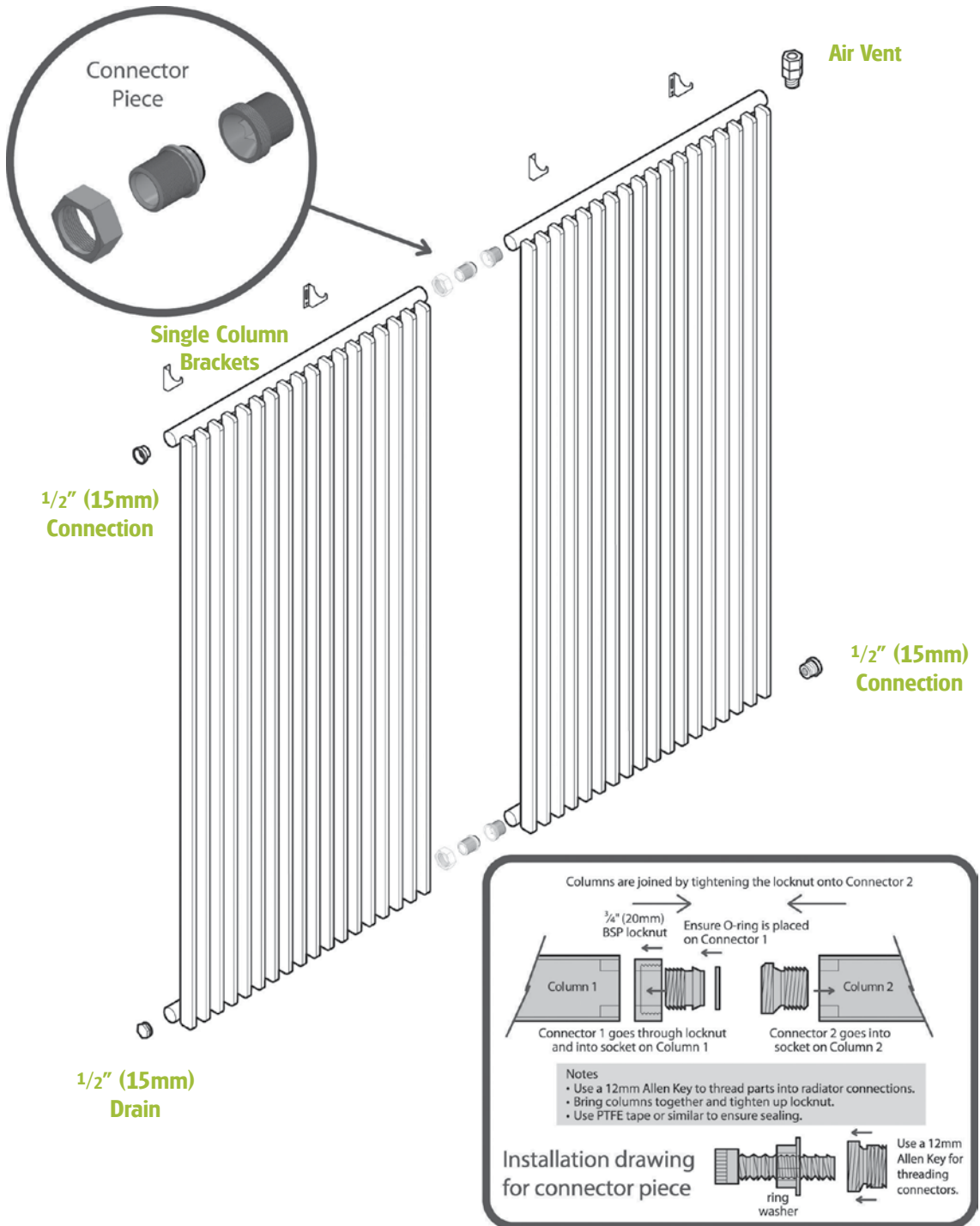
Other dimensions for A are available on request.

All dimensions are in millimetres.



# Joined Radiators

If a Profile radiator is ordered at a size greater than 900mm high AND 900mm long, it will be manufactured in 2 halves and installed on site as a single radiator. This will result in a 20mm gap between the radiators.





# Correction Factors

The outputs quoted in this brochure are based on a  $\Delta T$  of 50°C.

Listed below are the multiplying factors needed to calculate the output at other Delta Ts ( $\Delta T$ 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 Profile products are available from your local Merriott contact.

**EXAMPLE:**

Required Room Temperature - 20°C    Flow Temperature - 75°C    Return Temperature - 65°C

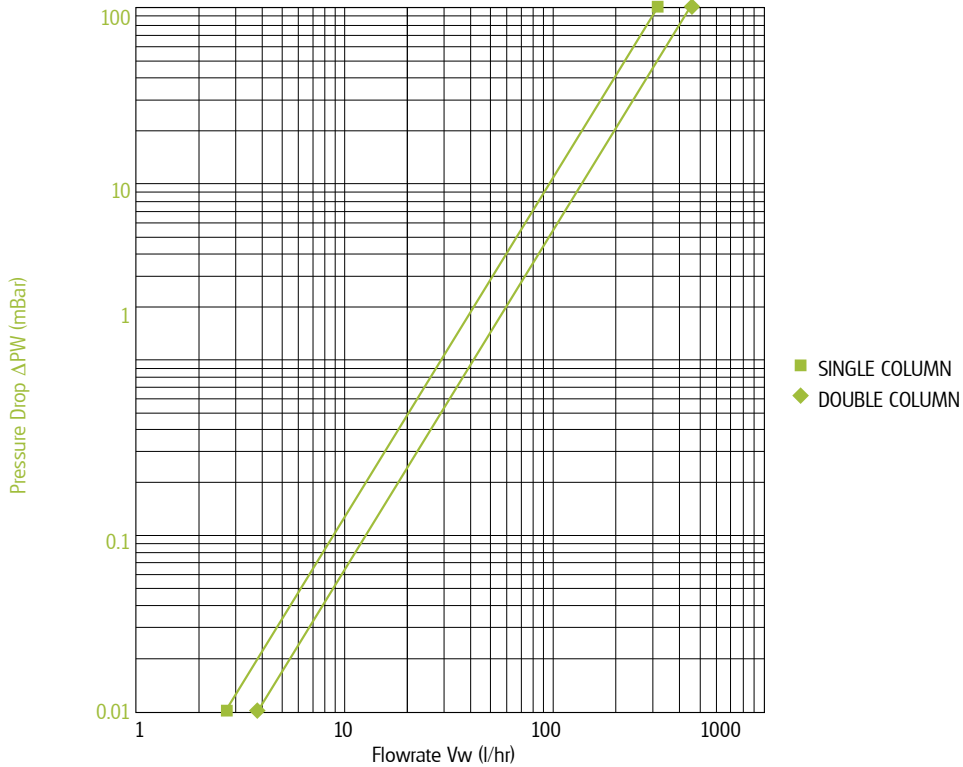
**SOLUTION:**

Mean Water Temperature -  $(T \text{ Flow} + T \text{ Return}) / 2 = (75+65)/2 = 70^\circ\text{C}$

$\Delta T = \text{Mean Water Temperature} - \text{Required Room Temperature} = 70^\circ\text{C} - 20^\circ\text{C} = \Delta T 50^\circ\text{C}$

$\Delta T(^{\circ}\text{C})$	Based on $\Delta T 50^{\circ}\text{C}$	$\Delta T(^{\circ}\text{C})$	Based on $\Delta T 50^{\circ}\text{C}$
10	0.134	46	0.901
11	0.151	47	0.926
12	0.168	48	0.950
13	0.186	49	0.975
14	0.204	50	1
15	0.222	51	1.025
16	0.241	52	1.050
17	0.260	53	1.076
18	0.279	54	1.101
19	0.298	55	1.127
20	0.318	56	1.152
21	0.338	57	1.178
22	0.358	58	1.204
23	0.379	59	1.230
24	0.400	60	1.256
25	0.420	61	1.282
26	0.442	62	1.309
27	0.463	63	1.335
28	0.484	64	1.361
29	0.506	65	1.388
30	0.528	66	1.415
31	0.550	67	1.442
32	0.572	68	1.469
33	0.595	69	1.496
34	0.617	70	1.523
35	0.640	71	1.550
36	0.663	72	1.577
37	0.686	73	1.605
38	0.710	74	1.632
39	0.733	75	1.660
40	0.757	76	1.688
41	0.780	77	1.716
42	0.804	78	1.743
43	0.828	79	1.771
44	0.852	80	1.799
45	0.877		

# Resistance



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## How to calculate the resistance of a Profile radiator ΔT 50°C

Radiator type: S70 (40mm pitch) 1520mm LONG x 600mm HIGH  
 Output @ ΔT 50°C: 1695W (flow/return – 75/65°C)

If the output is not at ΔT50°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)

<b>Q</b> –	(m)	x	(C)	x	(ΔT)
<b>Output</b> –	(flow rate)	x	(Constant)	x	(difference between flow and return temp)
<b>Watts</b> –	(l/s)		(J/kg°C)		(°C)
<b>1695</b> –	(m)		(4187)		(10)

### Therefore

<b>m</b> –	1695 / ((4187) X (10))
<b>m</b> –	0.0404824 (L/S)
	X 3600 (L/H)
<b>m</b> –	145.7 L/H

Please refer to the resistance diagram which gives a value of approximately 14.7mBar.

# How to Order

## **Merriott UK (Manufacturing Facility)**

Merriott, Imperial Park, Newport, Gwent, NP10 8FS

Tel: +44 (0) 1633 657 000

Fax: +44 (0) 1633 681 864

## **Merriott Ireland**

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For contact numbers please see below.

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Web: [www.merriottuk.com](http://www.merriottuk.com) / [www.merriott.ie](http://www.merriott.ie)

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