MYSON

DÉCOR RADIATORS
H, V & TS MODELS

TECHNICAL GUIDE JULY 17

EXTENDED RANGE

COMPLETE HEATING SOLUTIONS

Quick Order Guide & Checklist

DÉCOR Vertical (Type V)	DÉCOR Horizontal (Type H)	DÉCOR TS/TD (Type T)
1 Choose which type of radiator you prefer from range. **PAGE 5**	1 Choose which type of radiator you prefer from range. **PAGE 5**	1 Choose which type of radiator you prefer from range. **PAGE 5**
2 Choose height/width according to output requirements. **PAGE 8/9**	2 Choose height/width according to output requirements. **PAGE 14-19**	2 Choose height/width according to output requirements. **PAGE 24-27**
3 Choose connection option. **PAGE 11**	3 Choose connection option. **PAGE 21**	3 Choose connection option. **PAGE 29**
4 Choose fixing system. **PAGE 12/13**	4 Choose fixing system. **PAGE 22/23**	4 Choose fixing system. **PAGE 30/31**
5 Choose colour (if required). **PAGE 34**	5 Choose colour (if required). **PAGE 34**	5 Choose colour (if required). **PAGE 34**

For further information please call Customer Services on **0845 402 3434** or visit **www.myson.co.uk**

General Specifications

Approval and Certification

All **MYSON DÉCOR** radiators are manufactured and tested to EN 442.

All **MYSON DÉCOR** radiators carry a ten year guarantee from date of installation against defects caused by faulty materials or manufacture.

Paint Finish

Every **DÉCOR** radiator undergoes a multi-stage pre-treatment process followed by an epoxy polyester primer coating. A stoved epoxy polyester powder coat in white (RAL 9016) is applied to all front and rear surfaces allowing the **MYSON DÉCOR** to be fitted without further painting. Other colours are available, please see page 34.

Manufacture

All **MYSON DÉCOR** radiators are pressure tested to 5.2 Bar during manufacture. Maximum working pressure 4 Bar.

Application

MYSON DÉCOR radiators are for use on two pipe, pumped, indirect, domestic and commercial central heating installations, with a maximum working temperature of 100°C for **DÉCOR**. The system should be designed in accordance with BS EN 12828:2003 or BS EN 12831:2003 as appropriate, with particular care taken to avoid air entry or water discharge.

We do not recommend the use of single feed indirect cylinders, as the possibility of aeration due to water interchange may lead to corrosion.

The installation work must be carried out in accordance with recognised good practice, and precautions taken to avoid contamination which could lead to corrosion. A corrosion inhibitor or other water treatment should be used and the Manufacturer's Instructions must be strictly followed.

The recommendations of BS 7593, Code of Practice for treatment of water in domestic central heating systems, should be observed.

All systems must be designed with suitable pipe sizing (15mm or 22mm minimum depending on the length of run) and with a pump or adequate pump head. Failure to do this may lead to trapped air and cold spots because insufficient pressure and water flow will not drive the air from the radiator. The taller and more tubes a radiator has, the more likely this is to happen.

Safety Precautions

Radiators are hot when in use, and as such, present a risk of burns to users on prolonged contact. The temperature of a radiator is dependent on the temperature of the system water, as set by the system installer or user. Installers and users should ensure that those who may come into close proximity to hot radiators are aware of the risk of burns. Installers and users should take all necessary steps to minimise the risks of burns. If the risk is significant, consideration should be given to installing low surface temperature radiators, or to placing guards in front of the radiators.

Tube Dimensions

Headers - Triangular 51mm x 42mm x 42mm header: thickness 1.5mm
Heating tubes - Flat 70mm x 11mm: thickness 1.25mm

Heat Output

The heat outputs for all **MYSON DÉCOR** radiators can be found on pages 8, 9, 14 - 19 and 24 - 27. The tabulated figures are quoted in accordance with EN442 for a mean water to air temperature of 50°C. When the difference is not 50°C, the output should be multiplied by the appropriate factor from the table on page 32.

Stocked Range

A stock range is available on a number of products (see pages 6 & 7). Other products are manufactured to order. Please call 0845 402 3434 for further details.

Fixings

All **MYSON DÉCOR** radiators are supplied with the appropriate standard brackets. Mounting feet for floor fixing and support for ceiling fixing are supplied separately to order.

For the correct installation of radiators it is essential that the fixing of the radiator is carried out in such a way that it is suitable for intended use AND predictable misuse. A number of elements need to be taken into consideration including the fixing method used to secure the radiator to the wall, the type and condition of the wall itself, and any additional potential forces or weights, prior to finalising installation. **IN ALL CASES IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

PLEASE NOTE: The fixing materials provided are only intended for installation on walls made of solid wood, bricks, concrete or on timber-frame stud walls where the fixing is into the timber. All walls being considered should have no more than a maximum of 3mm wall finishing. For walls made of other materials, for example hollow bricks, please consult your installer and/or specialist supplier. **ONCE AGAIN, IF YOU ARE UNSURE, IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

Lead Time

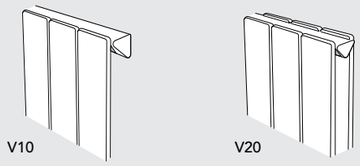
Stock = 3 days
Special = 6-8 weeks

CE Under the Construction Products Regulation, from 1st July 2013 all radiators listed in this technical guide will carry a CE mark.

Product Range

Vertical Product Range

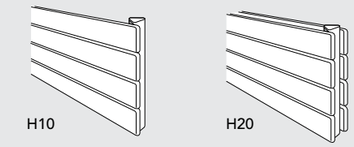
(without fins)



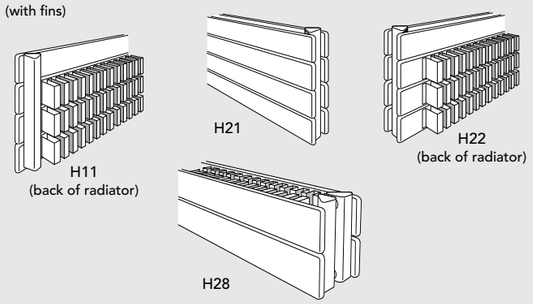
Model	Height (mm)	Length (mm)
V10 & V20	500 to 4000	155 to 1205
V10 (stock range)	2000	455 to 755
V20 (stock range)	600	605 to 1355

Horizontal Product Range

(without fins)

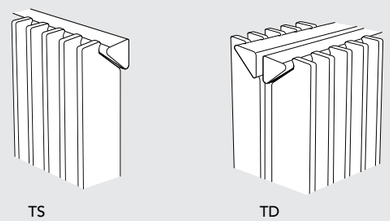


(with fins)



Model	Length (mm)	Height (mm)
H10 & H20	500 to 4000	155 to 1205
H11, H21 & H22	500 to 4000	155 to 905
H28	500 to 4000	155 to 305
H11 (stock range)	600 to 1800	305 to 755
H22 (stock range)	600 to 1800	455 to 755
H28 (stock range)	1000 to 2200	155 to 305

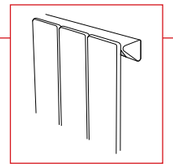
TS & TD Range



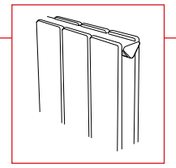
Model	Height (mm)	Length (mm)
TS4 & TD4 (40mm pitch between tubes)	500 to 4000	148 to 988
TS6 & TD6 (60mm pitch between tubes)	500 to 1200	148 to 1468
	500 to 4000	148 to 1168
TS4 (stock range)	600	588 to 1388
	2000	308 to 828

Calculation of DÉCOR dimensions

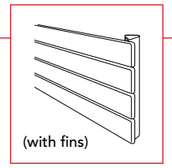
Length in mm of Verticals (V10 and V20) : (Number of tubes x 75) + 5mm
Height in mm of Horizontals (H10, H20, H11, H21 and H22) : (Number of tubes x 75) + 5mm
Height in mm of Plinths (H28) : (Number of tubes x 75) + 5mm
Length of TS/TD Range in mm, with a pitch of 40 and 60 : (Number of tubes - 1) x (pitch) + 28mm



DÉCOR V10

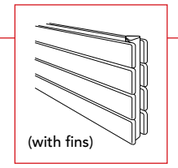


DÉCOR V20

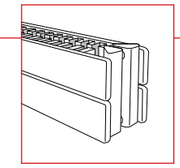


DÉCOR H11

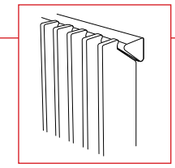
All products on pages 6 & 7 are available from stock for immediate delivery



DÉCOR H22



DÉCOR H28



DÉCOR TS4

DÉCOR V10 VERTICAL

Nominal Height	Nominal Length (mm)	No. of Tubes	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
			Watts	Btu/h	Watts	Btu/h	
1600mm	605	8	1056	3603	534	1822	8V10160
1800mm	455	6	892	3044	451	1539	6V10180
	605	8	1190	4060	602	2054	8V10180
	755	10	1487	5074	752	2566	10V10180
2000mm	455	6	991	3381	504	1720	6V10200
	605	8	1322	4511	672	2293	8V10200
	755	10	1652	5637	840	2866	10V10200

DÉCOR V20 VERTICAL

1600mm	605	8	1606	5480	817	2788	8V20160
1800mm	455	6	1339	4569	682	2327	6V20180
	605	8	1786	6094	909	3102	8V20180
	755	10	2232	7616	1136	3876	10V20180
2000mm	455	6	1474	5029	750	2559	6V20200
	605	8	1965	6705	1000	3412	8V20200
	755	10	2456	8380	1250	4265	10V20200

DÉCOR H11 HORIZONTAL

455mm	600	6	478	1631	251	856	6H11060
	700	6	558	1904	293	1000	6H11070
	800	6	638	2177	335	1143	6H11080
	900	6	717	2446	376	1283	6H11090
	1000	6	797	2719	419	1430	6H11100
	1200	6	956	3262	503	1716	6H11120
	1400	6	1116	3808	587	2003	6H11140
	1600	6	1275	4350	670	2286	6H11160
	1800	6	1435	4896	754	2573	6H11180
	2000	6	1594	5439	838	2859	6H11200
605mm	600	8	602	2054	317	1082	8H11060
	700	8	702	2395	370	1262	8H11070
	800	8	802	2736	422	1440	8H11080
	900	8	903	3081	475	1621	8H11090
	1000	8	1003	3422	528	1802	8H11100
	1200	8	1204	4108	634	2163	8H11120
	1400	8	1404	4790	739	2521	8H11140
	1600	8	1605	5476	845	2883	8H11160
	1800	8	1805	6159	950	3241	8H11180
	2000	8	2006	6844	1056	3603	8H11200
755mm	600	10	721	2460	379	1293	10H11060
	700	10	841	2869	442	1508	10H11070
	800	10	962	3282	506	1726	10H11080
	900	10	1082	3692	569	1941	10H11090
	1000	10	1202	4101	632	2156	10H11100
	1200	10	1442	4920	758	2586	10H11120
	1400	10	1683	5742	885	3020	10H11140
	1600	10	1923	6561	1011	3450	10H11160
	1800	10	2164	7384	1138	3883	10H11180
	2000	10	2404	8202	1264	4313	10H11200

DÉCOR H22 HORIZONTAL

Nominal Height	Nominal Length (mm)	No. of Tubes	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Order Code
			Watts	Btu/h	Watts	Btu/h	
455mm	600	6	833	2842	433	1477	6H22060
	700	6	972	3316	505	1723	6H22070
	800	6	1110	3787	578	1972	6H22080
	900	6	1249	4262	650	2218	6H22090
	1000	6	1388	4736	722	2463	6H22100
	1200	6	1666	5684	866	2955	6H22120
	1400	6	1943	6630	1011	3450	6H22140
	1600	6	2221	7578	1155	3941	6H22160
	1800	6	2498	8523	1300	4436	6H22180
	2000	6	2776	9472	1444	4927	6H22200
605mm	600	8	1027	3504	534	1822	8H22060
	700	8	1198	4088	623	2126	8H22070
	800	8	1369	4671	712	2429	8H22080
	900	8	1540	5254	801	2733	8H22090
	1000	8	1711	5838	890	3037	8H22100
	1200	8	2053	7005	1068	3644	8H22120
	1400	8	2395	8172	1246	4251	8H22140
	1600	8	2738	9342	1424	4859	8H22160
	1800	8	3080	10509	1602	5466	8H22180
	2000	8	3422	11676	1780	6073	8H22200
755mm	600	10	1206	4115	628	2143	10H22060
	700	10	1407	4801	732	2498	10H22070
	800	10	1608	5486	837	2856	10H22080
	900	10	1809	6172	941	3211	10H22090
	1000	10	2010	6858	1046	3569	10H22100
	1200	10	2412	8230	1255	4282	10H22120
	1400	10	2814	9601	1464	4995	10H22140
	1600	10	3216	10973	1674	5712	10H22160
	1800	10	3618	12345	1883	6425	10H22180
	2000	10	4020	13716	2092	7138	10H22200

DÉCOR H28 FLOOR

155mm	1000	2	682	2327	366	1249	2H28100
	1400	2	955	3258	512	1747	2H28140
	1800	2	1228	4190	659	2249	2H28180
	2200	2	1500	5118	805	2747	2H28220
305mm	1000	4	1195	4077	641	2187	4H28100
	1400	4	1673	5708	897	3061	4H28140
	1800	4	2151	7339	1154	3937	4H28180
	2200	4	2629	8970	1410	4811	4H28220

DÉCOR H28 WALL

305mm	1000	4	1195	4077	641	2187	4H28100
	1400	4	1673	5708	897	3061	4H28140
	1800	4	2151	7339	1154	3937	4H28180
	2200	4	2629	8970	1410	4811	4H28220

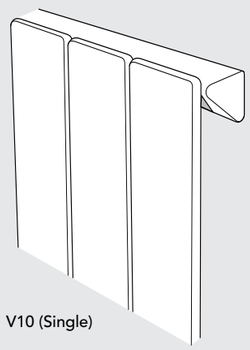
DÉCOR TS4

1800mm	308	8	832	2839	423	1443	8TS4180
	428	11	1144	3903	581	1982	11TS4180
	508	13	1352	4613	687	2344	13TS4180
	628	16	1664	5678	845	2883	16TS4180
2000mm	308	8	936	3194	480	1638	8TS4200
	428	11	1287	4391	660	2252	11TS4200
	508	13	1521	5190	780	2661	13TS4200
	628	16	1872	6387	960	3276	16TS4200

For choice of colours, please refer to page 34.

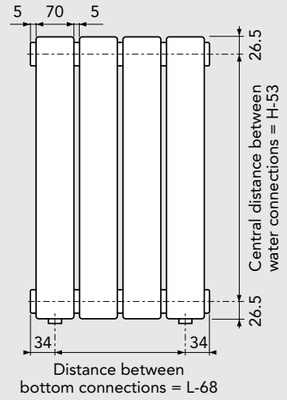
DÉCOR RADIATORS H, V & TS MODELS TECHNICAL GUIDE
01.07.2017

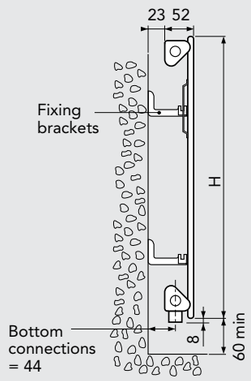
DÉCOR V10 Range



Model	Length (mm)	Height (mm)
V10	From 155 to 1205	From 500 to 4000

DÉCOR V10 Connection Dimensions (mm)





H = Height (mm)
L = Length (mm)

DÉCOR V10 Correction Factors for ∆t other than 50

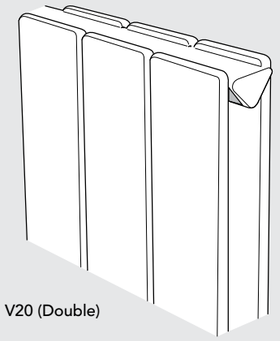
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.295	0.315	0.335	0.355	0.376	0.397	0.418	0.440	0.462	0.484
30°C	0.506	0.529	0.551	0.575	0.598	0.621	0.645	0.669	0.694	0.718
40°C	0.743	0.767	0.793	0.818	0.843	0.869	0.895	0.921	0.947	0.973
50°C	1.000	1.027	1.054	1.081	1.108	1.136	1.163	1.191	1.219	1.247
60°C	1.275	1.304	1.332	1.361	1.390	1.419	1.448	1.477	1.507	1.536
70°C	1.566	1.596	1.626	1.656	1.687	1.717	1.748	1.779	1.809	1.840

DÉCOR V10 Heat Outputs - Watts @ ∆t 50

Height (mm)	No. of Tubes - Length (mm)														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	155	230	305	380	455	530	605	680	755	830	905	980	1055	1130	1205
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	94	142	189	236	283	330	378	425	472	519	566	614	661	708	755
600	110	165	220	275	330	385	440	495	550	605	660	715	770	825	880
700	125	188	251	314	376	439	502	564	627	690	752	815	878	941	1003
800	141	211	282	352	422	493	563	634	704	774	845	915	986	1056	1126
900	156	234	312	390	468	546	624	702	780	858	936	1014	1092	1170	1248
1000	171	257	343	429	514	600	686	771	857	943	1028	1114	1200	1286	1371
1100	187	280	373	467	560	653	746	840	933	1026	1120	1213	1306	1400	1493
1200	202	303	404	505	606	707	808	909	1010	1111	1212	1313	1414	1515	1616
1300	218	326	435	544	653	762	870	979	1088	1197	1306	1414	1523	1632	1741
1400	233	350	466	583	700	816	933	1049	1166	1283	1399	1516	1632	1749	1866
1500	249	374	498	623	747	872	996	1121	1245	1370	1494	1619	1743	1868	1992
1600	264	396	528	660	792	924	1056	1188	1320	1452	1584	1716	1848	1980	2112
1700	281	422	562	703	843	984	1124	1265	1405	1546	1686	1827	1967	2108	2248
1800	297	446	595	744	892	1041	1190	1338	1487	1636	1784	1933	2082	2231	2379
1900	314	471	628	785	941	1098	1255	1412	1569	1726	1883	2040	2197	2354	2510
2000	330	496	661	826	991	1156	1322	1487	1652	1817	1982	2148	2313	2478	2643
2100	347	521	695	869	1042	1216	1390	1563	1737	1911	2084	2258	2432	2606	2779
2200	365	547	729	912	1094	1276	1458	1641	1823	2005	2188	2370	2552	2735	2917
2300	382	573	764	955	1146	1337	1528	1719	1910	2101	2292	2483	2674	2865	3056
2400	400	599	799	999	1199	1399	1598	1798	1998	2198	2398	2597	2797	2997	3197
2500	417	626	835	1044	1252	1461	1670	1878	2087	2296	2504	2713	2922	3131	3339
2600	436	653	871	1089	1307	1525	1742	1960	2178	2396	2614	2831	3049	3267	3485
2800	473	709	945	1182	1418	1654	1890	2127	2363	2599	2836	3072	3308	3545	3781
3000	511	766	1022	1277	1532	1788	2043	2299	2554	2809	3065	3320	3576	3831	4086
3200	550	826	1101	1376	1651	1926	2202	2477	2752	3027	3302	3578	3853	4128	4403
3400	591	887	1182	1478	1773	2069	2364	2660	2955	3251	3546	3842	4137	4433	4728
3600	633	950	1266	1583	1899	2216	2532	2849	3165	3482	3798	4115	4431	4748	5064
3800	676	1015	1353	1691	2029	2367	2706	3044	3382	3720	4058	4397	4735	5073	5411
4000	721	1082	1443	1804	2164	2525	2886	3246	3607	3968	4328	4689	5050	5411	5771

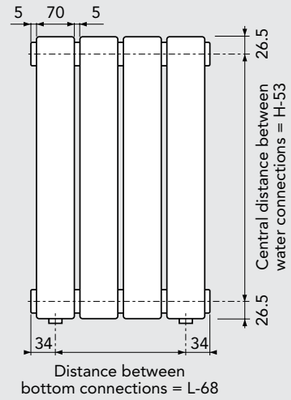
NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

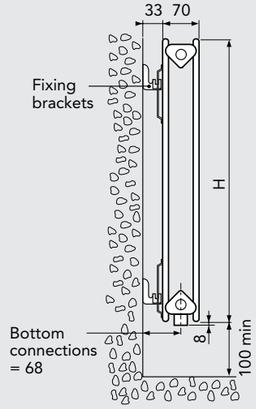
DÉCOR V20 Range

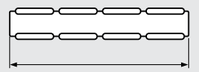


Model	Length (mm)	Height (mm)
V20	From 155 to 1205	From 500 to 4000

DÉCOR V20 Connection Dimensions (mm)







H = Height (mm)
L = Length (mm)

DÉCOR V20 Correction Factors for ∆t other than 50

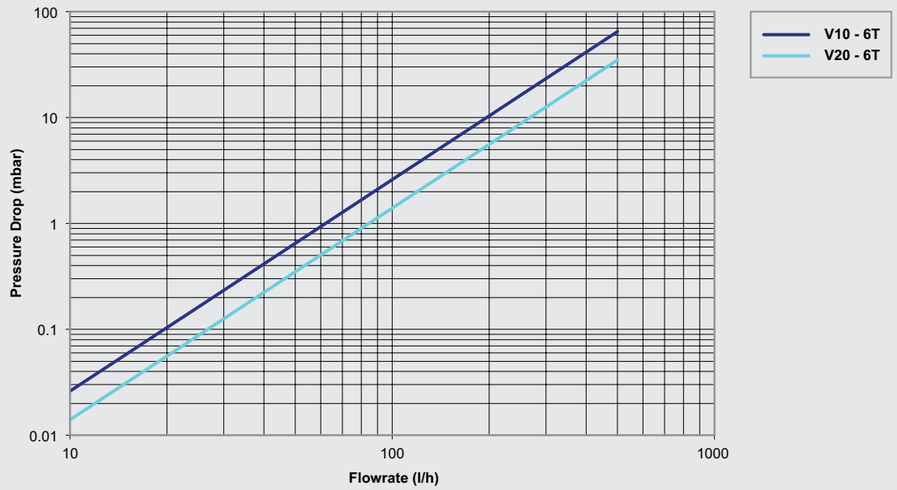
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.297	0.317	0.337	0.358	0.378	0.399	0.421	0.442	0.464	0.486
30°C	0.509	0.531	0.554	0.577	0.600	0.624	0.648	0.672	0.696	0.720
40°C	0.744	0.769	0.794	0.819	0.844	0.870	0.896	0.921	0.947	0.974
50°C	1.000	1.027	1.053	1.080	1.107	1.134	1.162	1.189	1.217	1.245
60°C	1.273	1.301	1.329	1.358	1.386	1.415	1.444	1.473	1.502	1.531
70°C	1.560	1.590	1.620	1.650	1.679	1.710	1.740	1.770	1.801	1.831

DÉCOR V20 Heat Outputs - Watts @ ∆t 50

Height (mm)	No. of Tubes - Length (mm)														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	155	230	305	380	455	530	605	680	755	830	905	980	1055	1130	1205
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	145	218	290	363	436	508	581	653	726	799	871	944	1016	1089	1162
600	170	255	340	425	510	595	680	765	850	935	1020	1105	1190	1275	1360
700	194	291	388	486	583	680	777	874	971	1068	1165	1262	1359	1457	1554
800	218	327	436	545	654	763	872	981	1090	1199	1308	1417	1526	1635	1744
900	242	362	483	604	725	846	966	1087	1208	1329	1450	1570	1691	1812	1933
1000	265	397	530	662	794	927	1059	1192	1324	1456	1589	1721	1854	1986	2118
1100	288	432	576	720	864	1008	1152	1296	1440	1584	1728	1872	2016	2160	2304
1200	311	466	622	777	932	1088	1243	1399	1554	1709	1865	2020	2176	2331	2486
1300	334	500	667	834	1001	1168	1334	1501	1668	1835	2002	2168	2335	2502	2669
1400	356	535	713	891	1069	1247	1426	1604	1782	1960	2138	2317	2495	2673	2851
1500	379	569	758	948	1137	1327	1516	1706	1895	2085	2274	2464	2653	2843	3032
1600	402	602	803	1004	1205	1406	1606	1807	2008	2209	2410	2610	2811	3012	3213
1700	424	636	848	1060	1272	1484	1696	1908	2120	2332	2544	2756	2968	3180	3392
1800	446	670	893	1116	1339	1562	1786	2009	2232	2455	2678	2902	3125	3348	3571
1900	469	703	938	1172	1406	1641	1875	2110	2344	2578	2813	3047	3282	3516	3750
2000	491	737	982	1228	1474	1719	1965	2210	2456	2702	2947	3193	3438	3684	3930
2100	514	770	1027	1284	1541	1798	2054	2311	2568	2825	3082	3338	3595	3852	4109
2200	536	804	1072	1340	1607	1875	2143	2411	2679	2947	3215	3483	3751	4019	4286
2300	558	837	1116	1396	1675	1954	2233	2512	2791	3070	3349	3628	3907	4187	4466
2400	581	871	1161	1452	1742	2032	2322	2613	2903	3193	3484	3774	4064	4355	4645
2500	603	905	1206	1508	1809	2111	2412	2714	3015	3317	3618	3920	4221	4523	4824
2600	625	938	1251	1564	1876	2189	2502	2814	3127	3440	3752	4065	4378	4691	5003
2800	670	1005	1340	1676	2011	2346	2681	3016	3351	3686	4021	4356	4691	5027	5362
3000	715	1073	1430	1788	2145	2503	2860	3218	3575	3933	4290	4648	5005	5363	5720
3200	760	1140	1520	1901	2281	2661	3041	3421	3801	4181	4561	4941	5321	5702	6082
3400	806	1208	1611	2014	2417	2820	3222	3625	4028	4431	4834	5236	5639	6042	6445
3600	851	1277	1702	2128	2553	2979	3404	3830	4255	4681	5106	5532	5957	6383	6808
3800	897	1345	1794	2242	2690	3139	3587	4036	4484	4932	5381	5829	6278	6726	7174
4000	943	1414	1886	2357	2828	3300	3771	4243	4714	5185	5657	6128	6600	7071	7542

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

V10 & V20 Pressure Drop Chart



NB: The chart above shows the standard stock range pressure drop in mbar.

Vertical Panels Pressure Drop

Models	Connections	Number of Tubes														
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
V10	Uni	2.3	1.6	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
	17 & 18	11.0	7.3	3.5	2.8	2.6	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
V20	Uni	1.3	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	17 & 18	3.5	2.6	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

NB: The table shows pressure drop in mbar for 100 l/h flow rate.

Pressure Drop Correction Factors in Relation to Flow Rate (l/h)

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
0	0	0.003	0.010	0.023	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72	0.81	0.90
100	1.00	1.10	1.21	1.32	1.44	1.56	1.69	1.82	1.96	2.10	2.25	2.40	2.56	2.72	2.89	3.06	3.24	3.42	3.61	3.80
200	4.00	4.20	4.41	4.62	4.84	5.06	5.29	5.52	5.76	6.00	6.25	6.50	6.76	7.02	7.29	7.56	7.84	8.12	8.41	8.70
300	9.00	9.30	9.61	9.92	10.24	10.56	10.89	11.22	11.56	11.90	12.25	12.60	12.96	13.32	13.69	14.06	14.44	14.82	15.21	15.60
400	16.00	16.40	16.81	17.22	17.64	18.06	18.49	18.92	19.36	19.80	20.25	20.70	21.16	21.62	22.09	22.56	23.04	23.52	24.01	24.50

Example: For a flow rate of 150 l/h, the pressure drop is multiplied by 2.25 compared to 100 l/h.

Note: The above values were determined with a tube length of 2m, but the actual tube length has a very limited effect on pressure drop.

Important: We draw your attention to the pressure drop on certain models which must be taken into consideration before designing the installation.

Connection in series: this has its limitations and proper steps must be taken to avoid under-sizing of radiators.

System Design & Commissioning

All systems must be designed with suitable pipe sizing (15 or 22mm minimum depending on the length of run) and with a pump of adequate pump head.

Failure to do this may lead to trapped air and cold spots because there is insufficient pressure and water flow to drive the air from the radiator. The taller the radiator, and the more tubes a radiator has, the more likely this is to happen.

In instances where pipe-work and/or pumps have not been upgraded, and there is trapped air inside the radiators, closing down all other radiators in the system to promote circulation through the radiator may help to clear the air. Once the air is clear, the system should be properly balanced to maintain flow through the radiator.

If there is still trapped air the following procedure may also be used:

- Isolate radiator and drain down
- With the inlet valve closed and air vent open, backfill slowly via the outlet valve
- If no drain-off facility exists, slacken the valve coupling on the inlet side with the inlet valve still closed and allow water to flow freely out of the radiator into a suitable receptacle for a few minutes before retightening the valve coupling (Suitable drain-off facilities are advantageous)
- Open the inlet valve and bleed the radiator from the vent in the normal manner
- Balance the system.

Vertical Panels Weight and Water Contents per Tube

Model	Weight (kg) Water (l)	Height (mm)												
		600	800	1000	1200	1400	1600	1800	2000	2200	2400	3000	3500	4000
V10	Weight	1.13	1.43	1.73	2.03	2.33	2.63	2.93	3.23	3.53	3.83	4.73	5.48	6.23
	Water	0.52	0.63	0.74	0.85	0.96	1.08	1.19	1.30	1.41	1.52	1.86	2.14	2.42
V20	Weight	2.03	2.63	3.23	3.83	4.43	5.03	5.63	6.23	6.83	7.43	9.23	10.73	12.23
	Water	0.85	1.08	1.30	1.52	1.75	1.97	2.20	2.42	2.64	2.87	3.54	4.10	4.66

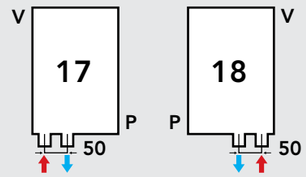
NB: Weight and water content of intermediate heights can be calculated pro-rata from the values in the table.

Vertical Connection Options

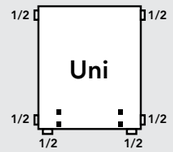
V10 and V20 Standard Stock Connections*

This connection is only available on the standard stock radiators and not as a special order.

50mm Connection Spacing*



Universal Connection

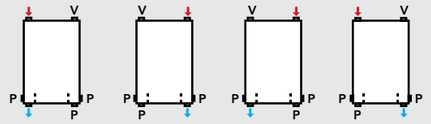


For radiator heights smaller than or equal to 1200mm

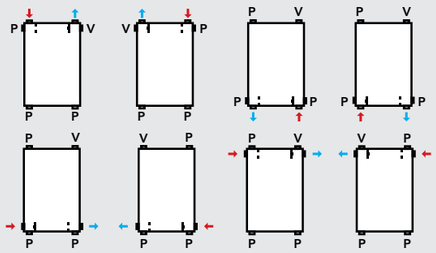
For radiator heights greater than 1200mm

In order for the flow water to circulate around the radiator effectively, it is advised that you fit the "insert" into the radiator baffle in certain connection options.

Connection Options without the need for an Insert



Connection Options which require an Insert

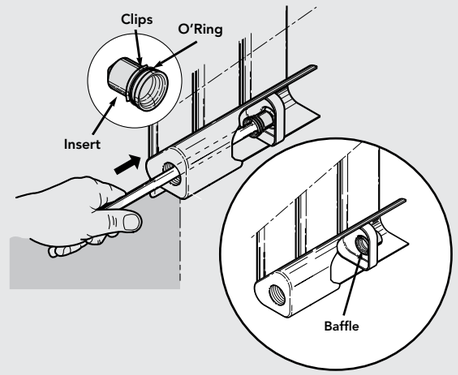


Key

- Flow Water Inlet
- Return Water Outlet
- V Air Vent
- P Plug
- Baffle Without Insert
- Baffle With Insert (manual insertion required on universal connections- see below)

(Please refer to page 33 for a list of accessories supplied with the universal connection).

Fitting the Insert into Baffle
(where indicated on the diagram opposite with a)

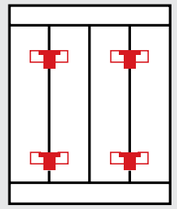


*For factory fitted baffle locations, please contact customer services 0845 402 3434

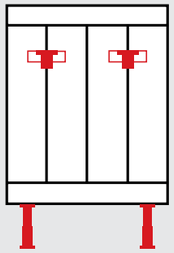
Dimension Possibilities (by number of tubes)

Model	Connections	Fixing Ref 001		Fixing Ref 002 and 012		Fixing Ref 003 and 013	
		Height (mm)		Height (mm)		Height (mm)	
		500 to 1200	1300 to 4000	500 to 1200	1300 to 4000	500 to 1200	1300 to 4000
All	Uni	2 to 16	2 to 16	3 to 16	3 to 16	3 to 16	3 to 16
	17 & 18	2 to 16	2 to 16	5 to 16	5 to 16	5 to 16	5 to 16

V10 & V20 (V Range)

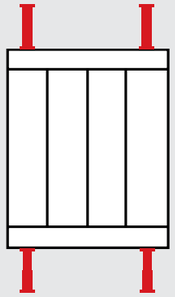


REF. 001
Wall mounted
(= standard fixing system)



REF. 002
Wall mounted with adjustable feet
90 to 120mm

REF. 012
Wall mounted with adjustable feet
120 to 150mm



REF. 003
90 to 120mm ceiling support
mounting and adjustable feet
90 to 120mm

REF. 013
90 to 120mm ceiling support
mounting and adjustable feet
120 to 150mm

Screw-fixing brackets included in the price of the stocked radiator.

Key: Bracket | Adjustable Foot | Ceiling Support

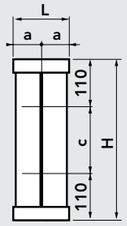
WARNING: Please specify at time of ordering a UNIVERSAL CONNECTION with either fixing ref 002 or 012 if the connections are to be at the top or bottom.

Please Note: No modification can be made after manufacture.

Fixing System REF. 001 (V Range)

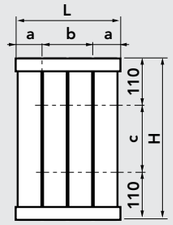
Height 500 to 2400mm

(2 Brackets)



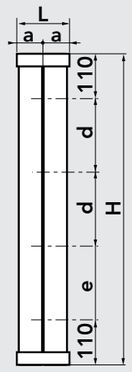
2 and 3 Tubes

(4 Brackets)

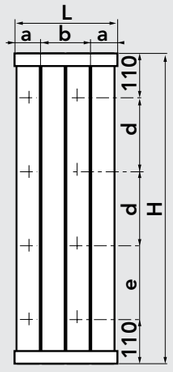


4 to 16 Tubes

Height 2500 to 4000mm



2 and 3 Tubes



4 to 16 Tubes

Number of Tubes	a
2	77.5
3	115.0
4 to 16	77.5

	H								
	2500	2600	2800	3000	3200	3400	3600	3800	4000
d	730	765	830	900	965	1030	1100	1165	1230
e	820	850	920	980	1050	1120	1180	1250	1320

b = L - (2 x a)

c = H - 220

L = (Number of tubes x 75) + 5mm

Measurements ‘a’ and ‘b’ are identical to those of heights 500 to 2400mm.

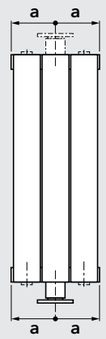
H = Height

L = Length

All dimensions are quoted in mm

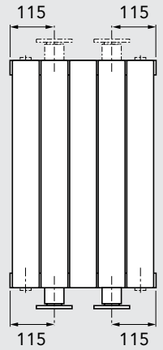
DÉCOR RADIATORS H, V & TS MODELS TECHNICAL GUIDE
01.07.2017

Fixing System REF. 002, 003, 012, 013 (V Range)



No. of Tubes	Height
3 and 4	500 to 4000

a = Length / 2

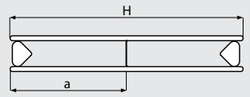


No. of Tubes	Height
5 to 16	500 to 4000

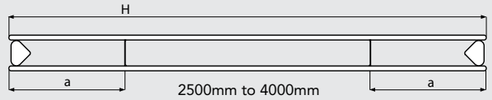
These measurements are not valid for connections 17-18. Please enquire.

V20 Range

Radiators higher than 1300mm have factory fitted spacer bars



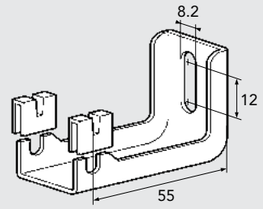
1300mm to 2400mm



2500mm to 4000mm

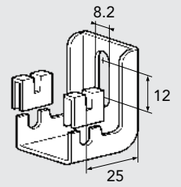
Height	a	Height	a	Height	a	Height	a
1300	570	2000	930	2700	870	3400	1110
1400	630	2100	970	2800	910	3500	1150
1500	670	2200	1030	2900	950	3600	1170
1600	730	2300	1070	3000	970	3700	1210
1700	770	2400	1130	3100	1010	3800	1250
1800	830	2500	810	3200	1050	3900	1270
1900	870	2600	850	3300	1070	4000	1310

Screw-Fixing Brackets



Reference:
Screw-Fixing Bracket
(60mm)

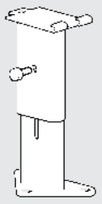
For Model: V10



Reference:
Screw-Fixing Bracket
(30mm)

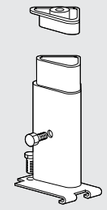
For Model: V20

Feet & Supports



Adjustable Foot

Height: 90-120mm
120-150mm

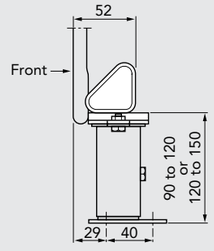


Ceiling Support

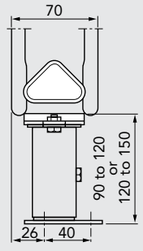
Height: 90-120mm

Adjustable Feet

V10



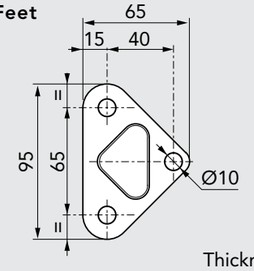
V20



PLEASE NOTE: Type of fixing must be specified at the time of order.

Floor Plate

For use with Adjustable Feet

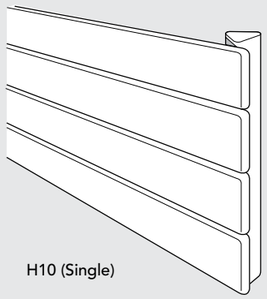


Thickness = 2.5mm

All dimensions are quoted in mm

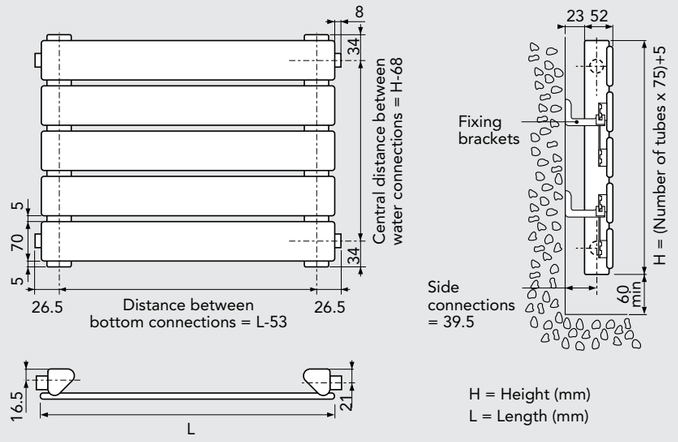
DÉCOR RADIATORS H, V & TS MODELS TECHNICAL GUIDE
01.07.2017

DÉCOR H10 Range



Model	Height (mm)	Length (mm)
H10	From 155 to 1205	From 500 to 4000

DÉCOR H10 Connection Dimensions (mm)



DÉCOR H10 Correction Factors for Δt other than 50

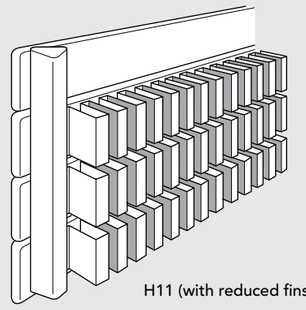
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.318	0.338	0.358	0.379	0.400	0.420	0.442	0.463	0.484	0.506
30°C	0.529	0.551	0.573	0.595	0.618	0.641	0.664	0.687	0.710	0.733
40°C	0.757	0.781	0.804	0.828	0.853	0.877	0.901	0.926	0.950	0.975
50°C	1.000	1.025	1.050	1.075	1.101	1.126	1.152	1.178	1.204	1.230
60°C	1.256	1.282	1.308	1.334	1.361	1.388	1.414	1.441	1.468	1.495
70°C	1.522	1.549	1.576	1.604	1.631	1.659	1.687	1.714	1.742	1.770

DÉCOR H10 Heat Outputs - Watts @ Δt 50

Length (mm)	No. of Tubes - Height (mm)														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	155	230	305	380	455	530	605	680	755	830	905	980	1055	1130	1205
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	92	132	172	211	250	288	327	365	404	442	481	520	559	598	637
600	110	158	206	253	299	346	392	438	484	530	577	623	670	717	764
700	128	185	240	295	349	403	457	511	565	619	673	727	782	837	892
800	146	211	274	337	399	461	522	584	646	707	769	831	894	956	1019
900	165	238	309	379	449	518	588	657	726	796	865	935	1005	1076	1147
1000	183	264	343	421	499	576	653	730	807	884	961	1039	1117	1195	1274
1100	201	290	377	463	549	634	718	803	888	972	1057	1143	1229	1315	1401
1200	220	317	412	505	599	691	784	876	968	1061	1153	1247	1340	1434	1529
1300	238	343	446	547	649	749	849	949	1049	1149	1249	1351	1452	1554	1656
1400	256	370	480	589	699	806	914	1022	1130	1238	1345	1455	1564	1673	1784
1500	275	396	515	632	749	864	980	1095	1211	1326	1442	1559	1676	1793	1911
1600	293	422	549	674	798	922	1045	1168	1291	1414	1538	1662	1787	1912	2038
1700	311	449	583	716	848	979	1110	1241	1372	1503	1634	1766	1899	2032	2166
1800	329	475	617	758	898	1037	1175	1314	1453	1591	1730	1870	2011	2151	2293
1900	348	502	652	800	948	1094	1241	1387	1533	1680	1826	1974	2122	2271	2421
2000	366	528	686	842	998	1152	1306	1460	1614	1768	1922	2078	2234	2390	2548
2100	384	554	720	884	1048	1210	1371	1533	1695	1856	2018	2182	2346	2510	2675
2200	403	581	755	926	1098	1267	1437	1606	1775	1945	2114	2286	2457	2629	2803
2300	421	607	789	968	1148	1325	1502	1679	1856	2033	2210	2390	2569	2749	2930
2400	439	634	823	1010	1198	1382	1567	1752	1937	2122	2306	2494	2681	2868	3058
2500	458	660	858	1053	1248	1440	1633	1825	2018	2210	2403	2598	2793	2988	3185
2600	476	686	892	1095	1297	1498	1698	1898	2098	2298	2499	2701	2904	3107	3312
2700	494	713	926	1137	1347	1555	1763	1971	2179	2387	2595	2805	3016	3227	3440
2800	512	739	960	1179	1397	1613	1828	2044	2260	2475	2691	2909	3128	3346	3567
2900	531	766	995	1221	1447	1670	1894	2117	2340	2564	2787	3013	3239	3466	3695
3000	549	792	1029	1263	1497	1728	1959	2190	2421	2652	2883	3117	3351	3585	3822
3100	567	818	1063	1305	1547	1786	2024	2263	2502	2740	2979	3221	3463	3705	3949
3200	586	845	1098	1347	1597	1843	2090	2336	2582	2829	3075	3325	3574	3824	4077
3300	604	871	1132	1389	1647	1901	2155	2409	2663	2917	3171	3429	3686	3944	4204
3400	622	898	1166	1431	1697	1958	2220	2482	2744	3006	3267	3533	3798	4063	4332
3500	641	924	1201	1474	1747	2016	2286	2555	2825	3094	3364	3637	3910	4183	4459
3600	659	950	1235	1516	1796	2074	2351	2628	2905	3182	3460	3740	4021	4302	4586
3700	677	977	1269	1558	1846	2131	2416	2701	2986	3271	3556	3844	4133	4422	4714
3800	695	1003	1303	1600	1896	2189	2481	2774	3067	3359	3652	3948	4245	4541	4841
3900	714	1030	1338	1642	1946	2246	2547	2847	3147	3448	3748	4052	4356	4661	4969
4000	732	1056	1372	1684	1996	2304	2612	2920	3228	3536	3844	4156	4468	4780	5096

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

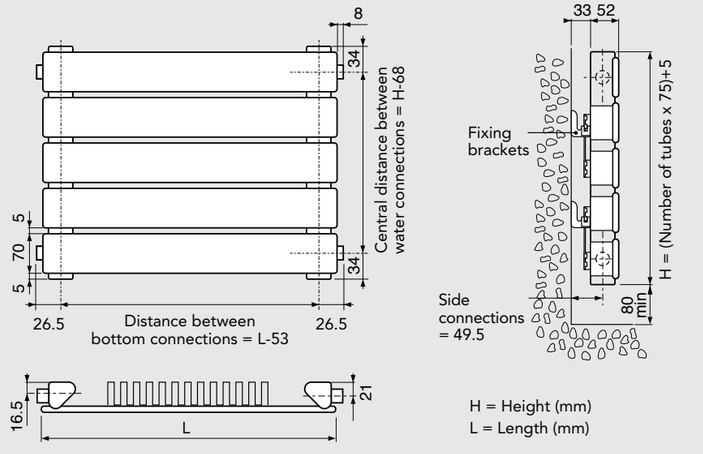
DÉCOR H11 Range



The number of tubes with fins is equal to the number of tubes - 1

Model	Height (mm)	Length (mm)
H11	From 155 to 905	From 500 to 4000

DÉCOR H11 Connection Dimensions (mm)



DÉCOR H11 Correction Factors for Δt other than 50

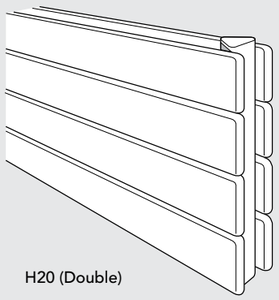
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.315	0.335	0.356	0.376	0.397	0.418	0.439	0.460	0.482	0.504
30°C	0.526	0.548	0.571	0.593	0.616	0.639	0.662	0.685	0.708	0.732
40°C	0.755	0.779	0.803	0.827	0.852	0.876	0.900	0.925	0.950	0.975
50°C	1.000	1.025	1.051	1.076	1.102	1.127	1.153	1.179	1.205	1.231
60°C	1.258	1.284	1.311	1.337	1.364	1.391	1.418	1.445	1.472	1.499
70°C	1.527	1.554	1.582	1.609	1.637	1.665	1.693	1.721	1.749	1.777

DÉCOR H11 Heat Outputs - Watts @ Δt 50

Length (mm)	No. of Tubes - Height (mm)										
	2	3	4	5	6	7	8	9	10	11	12
	155	230	305	380	455	530	605	680	755	830	905
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	144	216	289	346	399	451	502	552	601	650	699
600	172	259	347	415	478	541	602	662	721	780	838
700	201	302	405	484	558	631	702	772	841	910	978
800	230	346	462	553	638	721	802	882	962	1040	1118
900	258	389	520	622	717	811	903	993	1082	1170	1257
1000	287	432	578	691	797	901	1003	1103	1202	1300	1397
1100	316	475	636	760	877	991	1103	1213	1322	1430	1537
1200	344	518	694	829	956	1081	1204	1324	1442	1560	1676
1300	373	562	751	898	1036	1171	1304	1434	1563	1690	1816
1400	402	605	809	967	1116	1261	1404	1544	1683	1820	1956
1500	431	648	867	1037	1196	1352	1505	1655	1803	1950	2096
1600	459	691	925	1106	1275	1442	1605	1765	1923	2080	2235
1700	488	734	983	1175	1355	1532	1705	1875	2043	2210	2375
1800	517	778	1040	1244	1435	1622	1805	1985	2164	2340	2515
1900	545	821	1098	1313	1514	1712	1906	2096	2284	2470	2654
2000	574	864	1156	1382	1594	1802	2006	2206	2404	2600	2794
2100	603	907	1214	1451	1674	1892	2106	2316	2524	2730	2934
2200	631	950	1272	1520	1753	1982	2207	2427	2644	2860	3073
2300	660	994	1329	1589	1833	2072	2307	2537	2765	2990	3213
2400	689	1037	1387	1658	1913	2162	2407	2647	2885	3120	3353
2500	718	1080	1445	1728	1993	2253	2508	2758	3005	3250	3493
2600	746	1123	1503	1797	2072	2343	2608	2868	3125	3380	3632
2700	775	1166	1561	1866	2152	2433	2708	2978	3245	3510	3772
2800	804	1210	1618	1935	2232	2523	2808	3088	3366	3640	3912
2900	832	1253	1676	2004	2311	2613	2909	3199	3486	3770	4051
3000	861	1296	1734	2073	2391	2703	3009	3309	3606	3900	4191
3100	890	1339	1792	2142	2471	2793	3109	3419	3726	4030	4331
3200	918	1382	1850	2211	2550	2883	3210	3530	3846	4160	4470
3300	947	1426	1907	2280	2630	2973	3310	3640	3967	4290	4610
3400	976	1469	1965	2349	2710	3063	3410	3750	4087	4420	4750
3500	1005	1512	2023	2419	2790	3154	3511	3861	4207	4550	4890
3600	1033	1555	2081	2488	2869	3244	3611	3971	4327	4680	5029
3700	1062	1598	2139	2557	2949	3334	3711	4081	4447	4810	5169
3800	1091	1642	2196	2626	3029	3424	3811	4191	4568	4940	5309
3900	1119	1685	2254	2695	3108	3514	3912	4302	4688	5070	5448
4000	1148	1728	2312	2764	3188	3604	4012	4412	4808	5200	5588

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

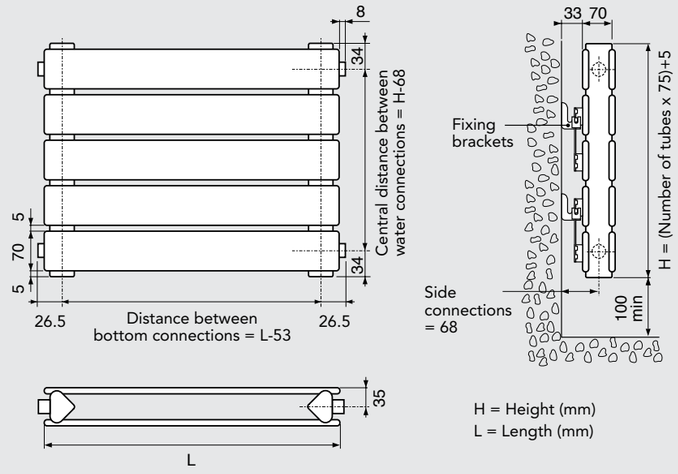
DÉCOR H20 Range



H20 (Double)

Model	Height (mm)	Length (mm)
H20	From 155 to 1205	From 500 to 4000

DÉCOR H20 Connection Dimensions (mm)



H = Height (mm)
L = Length (mm)

DÉCOR H20 Correction Factors for Δt other than 50

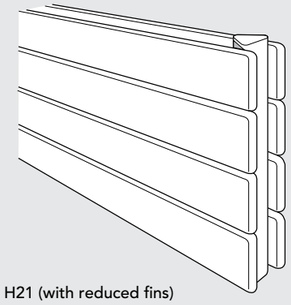
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.315	0.335	0.356	0.376	0.397	0.418	0.439	0.460	0.482	0.504
30°C	0.526	0.548	0.571	0.593	0.616	0.639	0.662	0.658	0.708	0.732
40°C	0.755	0.779	0.803	0.827	0.852	0.876	0.900	0.925	0.950	0.975
50°C	1.000	1.025	1.051	1.076	1.102	1.127	1.153	1.179	1.205	1.231
60°C	1.258	1.284	1.311	1.337	1.364	1.391	1.418	1.445	1.472	1.499
70°C	1.527	1.554	1.582	1.609	1.637	1.665	1.693	1.721	1.749	1.777

DÉCOR H20 Heat Outputs - Watts @ Δt 50

Length (mm)	No. of Tubes - Height (mm)														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	155	230	305	380	455	530	605	680	755	830	905	980	1055	1130	1205
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	170	246	320	391	461	529	595	660	724	787	848	908	968	1026	1083
600	204	295	384	469	553	634	714	792	869	944	1018	1090	1161	1231	1300
700	238	344	448	547	645	740	833	924	1014	1101	1187	1271	1355	1436	1516
800	272	394	512	626	738	846	952	1056	1158	1258	1357	1453	1548	1641	1733
900	306	443	576	704	830	951	1071	1188	1303	1416	1526	1634	1742	1846	1949
1000	340	492	640	782	922	1057	1190	1320	1448	1573	1696	1816	1935	2051	2166
1100	374	541	704	860	1014	1163	1309	1452	1593	1730	1866	1998	2129	2256	2383
1200	408	590	768	938	1106	1268	1428	1584	1738	1888	2035	2179	2322	2461	2599
1300	442	640	832	1017	1199	1374	1547	1716	1882	2045	2205	2361	2516	2666	2816
1400	476	689	896	1095	1291	1480	1666	1848	2027	2202	2374	2542	2709	2871	3032
1500	510	738	960	1173	1383	1586	1785	1980	2172	2360	2544	2724	2903	3077	3249
1600	544	787	1024	1251	1475	1691	1904	2112	2317	2517	2714	2906	3096	3282	3466
1700	578	836	1088	1329	1567	1797	2023	2244	2462	2674	2883	3087	3290	3487	3682
1800	612	886	1152	1408	1660	1903	2142	2376	2606	2831	3053	3269	3483	3692	3899
1900	646	935	1216	1486	1752	2008	2261	2508	2751	2989	3222	3450	3677	3897	4115
2000	680	984	1280	1564	1844	2114	2380	2640	2896	3146	3392	3632	3870	4102	4332
2100	714	1033	1344	1642	1936	2220	2499	2772	3041	3303	3562	3814	4064	4307	4549
2200	748	1082	1408	1720	2028	2325	2618	2904	3186	3461	3731	3995	4257	4512	4765
2300	782	1132	1472	1799	2121	2431	2737	3036	3330	3618	3901	4177	4451	4717	4982
2400	816	1181	1536	1877	2213	2537	2856	3168	3475	3775	4070	4358	4644	4922	5198
2500	850	1230	1600	1955	2305	2643	2975	3300	3620	3933	4240	4540	4838	5128	5415
2600	884	1279	1664	2033	2397	2748	3094	3432	3765	4090	4410	4722	5031	5333	5632
2700	918	1328	1728	2111	2489	2854	3213	3564	3910	4247	4579	4903	5225	5538	5848
2800	952	1378	1792	2190	2582	2960	3332	3696	4054	4404	4749	5085	5418	5743	6065
2900	986	1427	1856	2268	2674	3065	3451	3828	4199	4562	4918	5266	5612	5948	6281
3000	1020	1476	1920	2346	2766	3171	3570	3960	4344	4719	5088	5448	5805	6153	6498
3100	1054	1525	1984	2424	2858	3277	3689	4092	4489	4876	5258	5630	5999	6358	6715
3200	1088	1574	2048	2502	2950	3382	3808	4224	4634	5034	5427	5811	6192	6563	6931
3300	1122	1624	2112	2581	3043	3488	3927	4356	4778	5191	5597	5993	6386	6768	7148
3400	1156	1673	2176	2659	3135	3594	4046	4488	4923	5348	5766	6174	6579	6973	7364
3500	1245	1722	2240	2737	3227	3700	4165	4620	5068	5506	5936	6356	6773	7179	7581
3600	1224	1771	2304	2815	3319	3805	4284	4752	5213	5663	6106	6538	6966	7384	7798
3700	1258	1820	2368	2893	3411	3911	4403	4884	5358	5820	6275	6719	7160	7589	8014
3800	1292	1870	2432	2972	3504	4017	4552	5016	5502	5977	6445	6901	7353	7794	8231
3900	1326	1919	2496	3050	3596	4122	4641	5148	5647	6135	6614	7082	7547	7999	8447
4000	1360	1968	2560	3128	3688	4228	4760	5280	5792	6292	6784	7264	7740	8204	8664

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

DÉCOR H21 Range

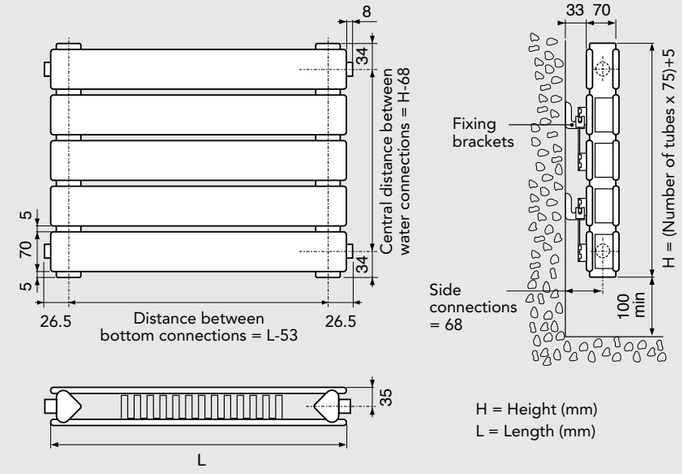


H21 (with reduced fins)

The number of tubes with fins is equal to the number of tubes - 1

Model	Height (mm)	Length (mm)
H21	From 155 to 905	From 500 to 4000

DÉCOR H21 Connection Dimensions (mm)



H = Height (mm)
L = Length (mm)

DÉCOR H21 Correction Factors for Δt other than 50

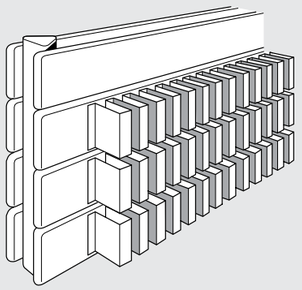
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.312	0.332	0.352	0.372	0.393	0.414	0.435	0.457	0.478	0.500
30°C	0.523	0.545	0.567	0.590	0.613	0.636	0.659	0.682	0.706	0.729
40°C	0.753	0.777	0.801	0.826	0.850	0.875	0.899	0.924	0.949	0.975
50°C	1.000	1.025	1.051	1.077	1.103	1.129	1.155	1.181	1.208	1.234
60°C	1.261	1.287	1.314	1.341	1.368	1.396	1.423	1.450	1.478	1.506
70°C	1.533	1.561	1.589	1.617	1.646	1.674	1.702	1.731	1.759	1.788

DÉCOR H21 Heat Outputs - Watts @ Δt 50

Length (mm)	No. of Tubes - Height (mm)										
	2	3	4	5	6	7	8	9	10	11	12
	155	230	305	380	455	530	605	680	755	830	905
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	240	328	420	496	565	631	694	756	815	873	930
600	287	393	504	595	678	757	833	907	978	1048	1115
700	335	459	588	694	791	883	972	1058	1141	1222	1301
800	383	524	672	794	904	1010	1110	1209	1304	1397	1487
900	431	590	756	893	1017	1136	1249	1360	1467	1571	1673
1000	479	655	840	992	1130	1262	1388	1511	1630	1746	1859
1100	527	721	924	1091	1243	1388	1527	1662	1793	1921	2045
1200	575	786	1008	1190	1356	1514	1666	1813	1956	2095	2231
1300	623	852	1092	1290	1469	1641	1804	1964	2119	2270	2417
1400	671	917	1176	1389	1582	1767	1943	2115	2282	2444	2603
1500	719	983	1260	1488	1695	1893	2082	2267	2445	2619	2789
1600	766	1048	1344	1587	1808	2019	2221	2418	2608	2794	2974
1700	814	1114	1428	1686	1921	2145	2360	2569	2771	2968	3160
1800	862	1179	1512	1786	2034	2272	2498	2720	2934	3143	3346
1900	910	1245	1596	1885	2147	2398	2637	2871	3097	3317	3532
2000	958	1310	1680	1984	2260	2524	2776	3022	3260	3492	3718
2100	1006	1376	1764	2083	2373	2650	2915	3173	3423	3667	3904
2200	1054	1441	1848	2182	2486	2776	3054	3324	3586	3841	4090
2300	1102	1507	1932	2282	2599	2903	3192	3475	3749	4016	4276
2400	1150	1572	2016	2381	2712	3029	3331	3626	3912	4190	4462
2500	1198	1638	2100	2480	2825	3155	3470	3778	4075	4365	4648
2600	1245	1703	2184	2579	2938	3281	3609	3929	4238	4540	4833
2700	1293	1769	2268	2678	3051	3407	3748	4080	4401	4714	5019
2800	1341	1834	2352	2778	3164	3534	3886	4231	4564	4889	5205
2900	1389	1900	2436	2877	3277	3660	4025	4382	4727	5063	5391
3000	1437	1965	2520	2976	3390	3786	4164	4533	4890	5238	5577
3100	1485	2031	2604	3075	3503	3912	4303	4684	5053	5413	5763
3200	1533	2096	2688	3174	3616	4038	4442	4835	5216	5587	5949
3300	1581	2162	2772	3274	3729	4165	4580	4986	5379	5762	6135
3400	1629	2227	2856	3373	3842	4291	4719	5137	5542	5936	6321
3500	1677	2293	2940	3472	3955	4417	4858	5289	5705	6111	6507
3600	1724	2358	3024	3571	4068	4543	4997	5440	5868	6286	6692
3700	1772	2424	3108	3670	4181	4669	5136	5591	6031	6460	6878
3800	1820	2489	3192	3770	4294	4796	5274	5742	6194	6635	7064
3900	1868	2555	3276	3869	4407	4922	5413	5893	6357	6809	7250
4000	1916	2620	3360	3968	4520	5048	5552	6044	6520	6984	7436

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

DÉCOR H22 Range

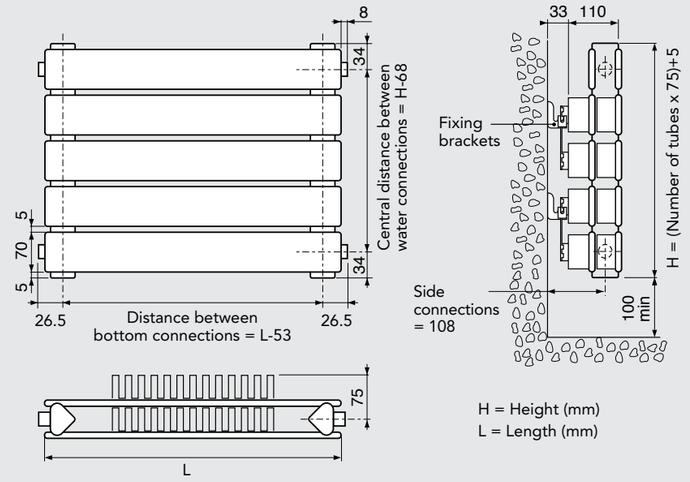


H22 (with reduced fins)

The number of tubes with fins is equal to the number of tubes - 1

Model	Height (mm)	Length (mm)
H22	From 155 to 905	From 500 to 4000

DÉCOR H22 Connection Dimensions (mm)



H = Height (mm)
L = Length (mm)

DÉCOR H22 Correction Factors for Δt other than 50

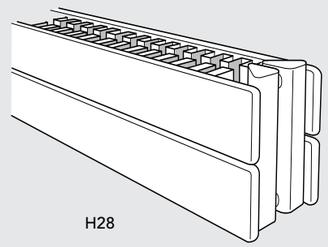
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.309	0.329	0.349	0.370	0.391	0.412	0.433	0.454	0.476	0.498
30°C	0.520	0.543	0.565	0.588	0.611	0.634	0.657	0.680	0.704	0.728
40°C	0.752	0.776	0.800	0.825	0.849	0.874	0.899	0.924	0.949	0.974
50°C	1.000	1.026	1.051	1.077	1.103	1.130	1.156	1.182	1.209	1.236
60°C	1.263	1.290	1.317	1.344	1.371	1.399	1.426	1.454	1.482	1.510
70°C	1.538	1.566	1.594	1.622	1.651	1.679	1.708	1.737	1.766	1.795

DÉCOR H22 Heat Outputs - Watts @ Δt 50

Length (mm)	No. of Tubes - Height (mm)										
	2	3	4	5	6	7	8	9	10	11	12
	155	230	305	380	455	530	605	680	755	830	905
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	267	384	512	608	694	777	856	932	1005	1076	1146
600	320	460	614	730	833	932	1027	1118	1206	1291	1375
700	373	537	716	851	972	1087	1198	1304	1407	1506	1604
800	426	614	818	973	1110	1242	1369	1490	1608	1722	1833
900	480	690	921	1094	1249	1398	1540	1677	1809	1937	2062
1000	533	767	1023	1216	1388	1553	1711	1863	2010	2152	2291
1100	586	844	1125	1338	1527	1708	1882	2049	2211	2367	2520
1200	640	920	1228	1459	1666	1864	2053	2236	2412	2582	2749
1300	693	997	1330	1581	1804	2019	2224	2422	2613	2798	2978
1400	746	1074	1432	1702	1943	2174	2395	2608	2814	3013	3207
1500	800	1151	1535	1824	2082	2330	2567	2795	3015	3228	3437
1600	853	1227	1637	1946	2221	2485	2738	2981	3216	3443	3666
1700	906	1304	1739	2067	2360	2640	2909	3167	3417	3658	3895
1800	959	1381	1841	2189	2498	2795	3080	3353	3618	3874	4124
1900	1013	1457	1944	2310	2637	2951	3251	3540	3819	4089	4353
2000	1066	1534	2046	2432	2776	3106	3422	3726	4020	4304	4582
2100	1119	1611	2148	2554	2915	3261	3593	3912	4221	4519	4811
2200	1173	1687	2251	2675	3054	3417	3764	4099	4422	4734	5040
2300	1226	1764	2353	2797	3192	3572	3935	4285	4623	4950	5269
2400	1279	1841	2455	2918	3331	3727	4106	4471	4824	5165	5498
2500	1333	1918	2558	3040	3470	3883	4278	4658	5025	5380	5728
2600	1386	1994	2660	3162	3609	4038	4449	4844	5226	5595	5957
2700	1439	2071	2762	3283	3748	4193	4620	5030	5427	5810	6186
2800	1492	2148	2864	3405	3886	4348	4791	5216	5628	6026	6415
2900	1546	2224	2967	3526	4025	4504	4962	5403	5829	6241	6644
3000	1599	2301	3069	3648	4164	4659	5133	5589	6030	6456	6873
3100	1652	2378	3171	3770	4303	4814	5304	5775	6231	6671	7102
3200	1706	2454	3274	3891	4442	4970	5475	5962	6432	6886	7331
3300	1759	2531	3376	4013	4580	5125	5646	6148	6633	7102	7560
3400	1812	2608	3478	4134	4719	5280	5817	6334	6834	7317	7789
3500	1866	2685	3581	4256	4858	5436	5989	6521	7035	7532	8019
3600	1919	2761	3683	4378	4997	5591	6160	6707	7236	7747	8248
3700	1972	2838	3785	4499	5136	5746	6331	6893	7437	7962	8477
3800	2025	2915	3887	4621	5274	5901	6502	7079	7638	8178	8706
3900	2079	2991	3990	4742	5413	6057	6673	7266	7839	8393	8935
4000	2132	3068	4092	4864	5552	6212	6844	7452	8040	8608	9164

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

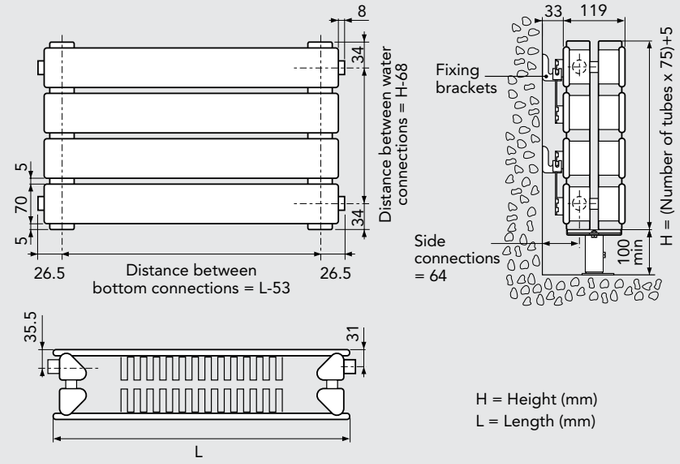
DÉCOR H28 Range



H28

Model	Height (mm)	Length (mm)
H28	From 155 to 305	From 500 to 4000

DÉCOR H28 Connection Dimensions (mm)



H = Height (mm)
L = Length (mm)

DÉCOR H28 Correction Factors for Δt other than 50

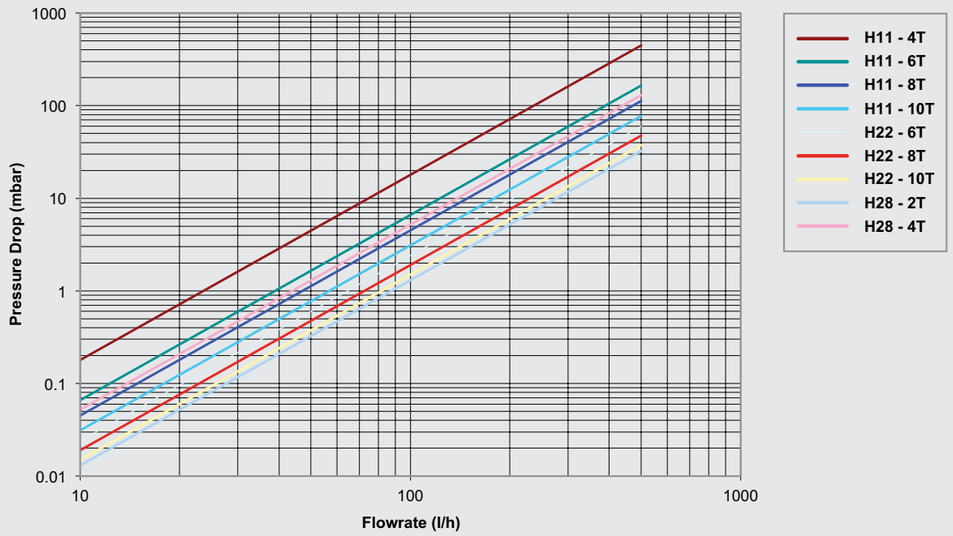
Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.327	0.347	0.367	0.388	0.409	0.429	0.450	0.472	0.493	0.515
30°C	0.537	0.558	0.580	0.603	0.625	0.647	0.670	0.693	0.716	0.739
40°C	0.762	0.785	0.809	0.832	0.856	0.879	0.903	0.927	0.951	0.976
50°C	1.000	1.024	1.049	1.074	1.098	1.123	1.148	1.173	1.198	1.224
60°C	1.249	1.274	1.300	1.325	1.351	1.377	1.403	1.429	1.455	1.481
70°C	1.507	1.533	1.560	1.586	1.613	1.639	1.666	1.693	1.719	1.746

DÉCOR H28 Heat Outputs - Watts @ Δt 50

Length (mm)	No. of Tubes - Height (mm)		
	2	3	4
	155	230	305
	Watts	Watts	Watts
500	341	468	598
600	409	562	717
700	477	655	837
800	546	749	956
900	614	842	1076
1000	682	936	1195
1100	750	1030	1315
1200	818	1123	1434
1300	887	1217	1554
1400	955	1310	1673
1500	1023	1404	1793
1600	1091	1498	1912
1700	1159	1591	2032
1800	1228	1685	2151
1900	1296	1778	2271
2000	1364	1872	2390
2100	1432	1966	2510
2200	1500	2059	2629
2300	1569	2153	2749
2400	1637	2246	2868
2500	1705	2340	2988
2600	1773	2434	3107
2800	1910	2621	3346
3000	2046	2808	3585
3200	2182	2995	3824
3400	2319	3182	4063
3600	2455	3370	4302
3800	2592	3557	4541
4000	2728	3744	4780

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

H11, H22 & H28 Pressure Drop Chart



NB: The chart above shows the standard stock range pressure drop in mbar.

Horizontal Panels & Plinth Pressure Drop

Models	Connections	Number of Tubes															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
H10 H11	09 or 10	6.0	2.3	1.6	17.9	12.3	6.6	5.6	4.5	3.5	3.1	2.8	2.4	11.4	9.7	9.1	8.5
	11 or 12	6.0	11.0	7.3	3.5	2.8	2.1	1.9	1.6	1.5	1.5	1.4	5.4	5.0	4.5	4.0	3.5
	19 or 20	6.0	2.3	1.6	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
	28	-	11.0	7.3	3.5	2.8	2.1	1.9	1.6	1.5	1.4	1.3	1.3	1.2	1.2	1.2	1.2
H20 H21 H22 H28	09 or 10	2.3	1.3	1.1	5.2	3.8	2.4	2.1	1.9	1.6	1.5	1.4	1.4	3.6	3.2	3.0	2.9
	11 or 12	2.3	3.5	2.6	1.6	1.5	1.3	1.2	1.2	1.1	1.1	1.1	2.1	2.0	1.9	1.7	1.6
	19 or 20	2.3	1.3	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	28	-	3.5	2.6	1.6	1.5	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0
Maximum number of tubes		H28															
		H11 - H21 - H22															
		H10 - H20															

NB: The table shows pressure drop in mbar for 100 l/h flow rate.

Pressure Drop Correction Factors in Relation to Flow Rate (l/h)

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
0	0	0.003	0.010	0.023	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72	0.81	0.90
100	1.00	1.10	1.21	1.32	1.44	1.56	1.69	1.82	1.96	2.10	2.25	2.40	2.56	2.72	2.89	3.06	3.24	3.42	3.61	3.80
200	4.00	4.20	4.41	4.62	4.84	5.06	5.29	5.52	5.76	6.00	6.25	6.50	6.76	7.02	7.29	7.56	7.84	8.12	8.41	8.70
300	9.00	9.30	9.61	9.92	10.24	10.56	10.89	11.22	11.56	11.90	12.25	12.60	12.96	13.32	13.69	14.06	14.44	14.82	15.21	15.60
400	16.00	16.40	16.81	17.22	17.64	18.06	18.49	18.92	19.36	19.80	20.25	20.70	21.16	21.62	22.09	22.56	23.04	23.52	24.01	24.50

Example: For a flow rate of 150 l/h, the pressure drop is multiplied by 2.25 compared to 100 l/h.

Note: The above values were determined with a tube length of 2m, but the actual tube length has a very limited effect on pressure drop.

Important: We draw your attention to the pressure drop on certain models which must be taken into consideration before designing the installation.

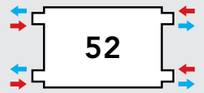
Connection in series: this has its limitations and proper steps must be taken to avoid under-sizing of radiators. *Example:* 5 radiators of 2H28 270 connected in a series (connection 28) and supplied with a flow rate of 482 l/h giving a total pressure drop of 3.5 mbar x 5 x 23.2 (flow correction factor) = 406 mbar.

Horizontal Panels & Plinth Weight and Water Contents per Metre Length

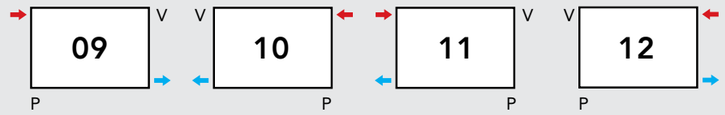
Model	Weight (kg) Water (l)	Number of Tubes														
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
H10	Weight	3.46	5.19	6.92	8.65	10.38	12.11	13.84	15.57	17.30	19.03	20.76	22.49	24.22	25.95	27.68
	Water	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40	8.14	8.88	9.62	10.36	11.10	11.84
H20	Weight	6.46	9.69	12.92	16.15	19.38	22.61	25.94	29.07	32.30	35.53	38.76	41.99	45.22	48.45	51.68
	Water	2.60	3.90	5.20	6.50	7.80	9.10	10.40	11.70	13.00	14.30	15.60	16.90	18.20	19.50	20.80
H11	Weight	5.26	7.89	10.52	13.15	15.78	18.41	21.04	23.67	26.30	28.93	31.56	-	-	-	-
	Water	1.48	2.22	2.96	3.70	4.44	5.18	5.92	6.66	7.40	8.14	8.88	-	-	-	-
H21	Weight	8.26	12.39	16.52	20.65	24.78	28.91	33.04	37.17	41.30	45.43	49.56	-	-	-	-
	Water	2.60	3.90	5.20	6.50	7.80	9.10	10.40	11.70	13.00	14.30	15.60	-	-	-	-
H22	Weight	10.06	15.09	20.12	25.15	30.18	35.21	40.24	45.27	50.30	55.33	60.36	-	-	-	-
	Water	2.60	3.90	5.20	6.50	7.80	9.10	10.40	11.70	13.00	14.30	15.60	-	-	-	-
H28	Weight	10.52	15.78	21.04	-	-	-	-	-	-	-	-	-	-	-	-
	Water	2.96	4.44	5.92	-	-	-	-	-	-	-	-	-	-	-	-

NB: Weight and water content of intermediate heights can be calculated pro-rata from the values in the table.

Horizontal Connection Options



= Standard connection for stock range horizontal radiators 4 x 1/2 in BSP (not suitable for top bottom same end (TBSE) connection)

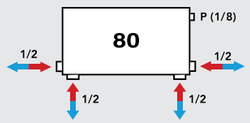


Key

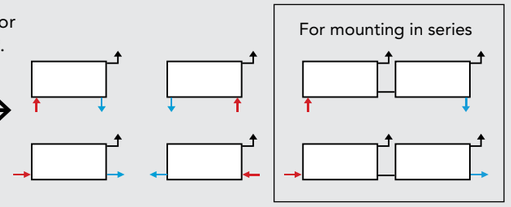
- Flow Water Inlet
- Return Water Outlet
- V Air Vent
- P Plug

For factory fitted baffle locations, please contact customer services 0845 402 3434

For all connections we have allowed for an additional drain outlet Ø 3/8 in BSP.

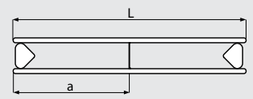


Possible connection options

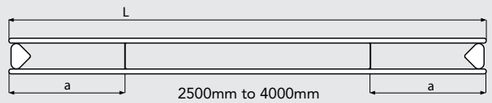


H Range

Radiators longer than 1300mm have factory fitted spacer bars



1300mm to 2400mm



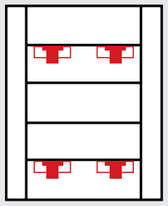
2500mm to 4000mm

Length	a	Length	a	Length	a	Length	a
1300	570	2000	930	2700	870	3400	1110
1400	630	2100	970	2800	910	3500	1150
1500	670	2200	1030	2900	950	3600	1170
1600	730	2300	1070	3000	970	3700	1210
1700	770	2400	1130	3100	1010	3800	1250
1800	830	2500	810	3200	1050	3900	1270
1900	870	2600	850	3300	1070	4000	1310

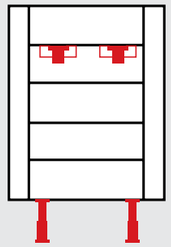
Dimension Possibilities (by number of tubes)

Model	Connections	Fixing Ref 001		Fixing Ref 002 and 012		Fixing Ref 003 and 013	
		Length (mm)		Length (mm)		Length (mm)	
		500 to 1200	1300 to 4000	500 to 1200	1300 to 4000	500 to 1200	1300 to 4000
H10 & H20	All Connections	2 to 16	2 to 16	2 to 16	2 to 16	2 to 5	2 to 5
H11, H21 & H22	All Connections	2 to 12	2 to 12	2 to 12	2 to 12	2 to 5	2 to 5
H28	All Connections	2 to 4	2 to 4	2 to 4	2 to 4	2 to 4	2 to 4

H10, 20, 22, 21, 22 & 28 (H Range)

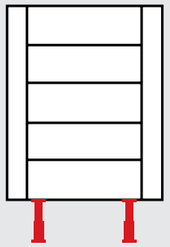


REF. 001
Wall mounted (except stocked H28)
= Standard fixing system



REF. 002
Wall mounted with adjustable feet
90 to 120mm

REF. 012
Wall mounted with adjustable feet
120 to 150mm



REF. 003
Mounting with adjustable feet
90 to 120mm
= Standard fixing system
for H28 stocked model

REF. 013
Mounting with adjustable feet
120 to 150mm

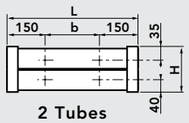
Screw-fixing brackets included in the price of the stocked radiator.

Key: Bracket | Adjustable Foot

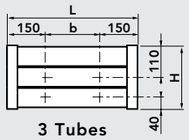
Please Note: No modification can be made after manufacture.

Fixing System REF. 001 (H Range)

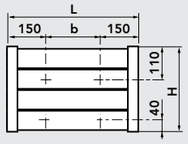
Length 500 to 1200mm (4 Brackets)



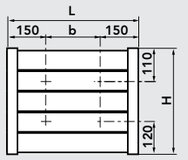
2 Tubes



3 Tubes



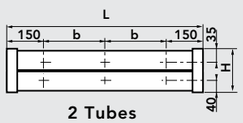
4 Tubes



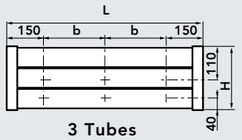
5 to 16 Tubes

b = L - 300

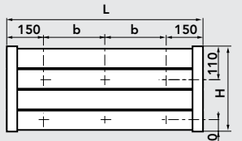
Length 1300 to 2400mm (6 Brackets)



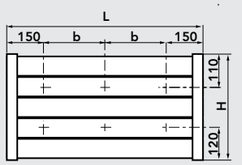
2 Tubes



3 Tubes



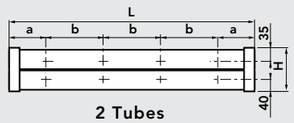
4 Tubes



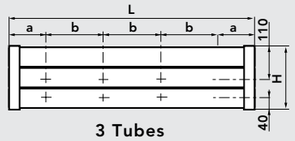
5 to 16 Tubes

b = L - 300 / 2

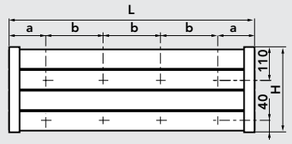
Length 2500 to 4000mm (8 Brackets)



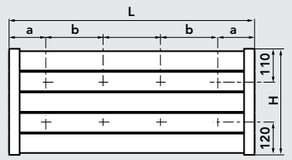
2 Tubes



3 Tubes



4 Tubes



5 to 16 Tubes

b = L - (2 x a) / 3

H = Height
L = Length

	Length															
	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
a	155	145	150	155	145	150	155	145	150	155	145	150	155	145	150	155

H = (Number of tubes x 75) + 5mm

All dimensions are quoted in mm

DÉCOR RADIATORS H, V & TS MODELS TECHNICAL GUIDE
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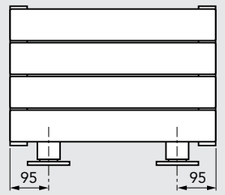
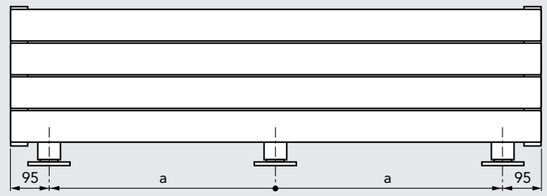
Fixing System REF. 002, 012, 003, 013 (H Range)

Length 500 to 1200mm

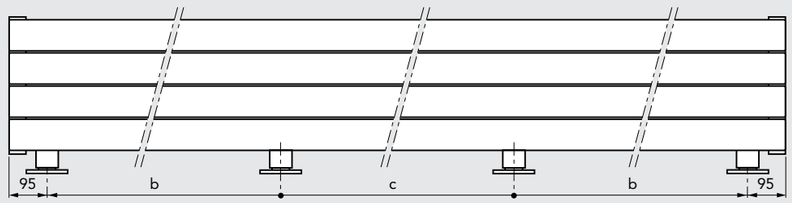


Length 1300 to 2400mm



a = L - 190 / 2

Length 2500 to 4000mm



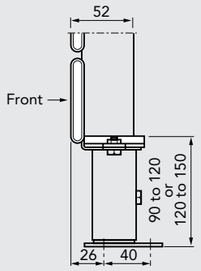
Maximum 5 tubes for Ref. 003 & 013

c = L - (2 x b) - 190

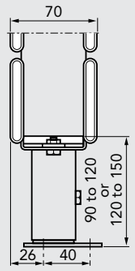
	Length (L)															
	2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
b	775	815	855	875	915	955	975	1015	1055	1075	1115	1155	1175	1215	1255	1275

Adjustable Feet

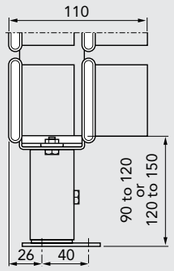
H10 - H11



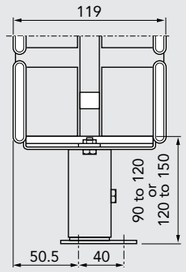
H20 - H21



H22

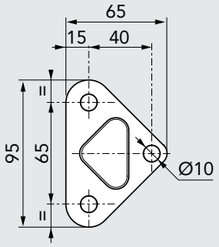


H28



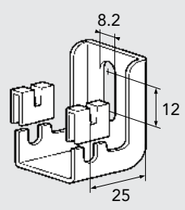
Floor Plate

For use with Adjustable Feet



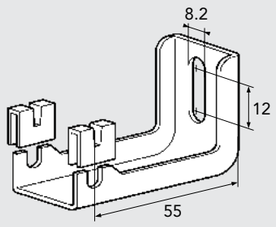
Thickness = 2.5mm

Screw-Fixing Brackets



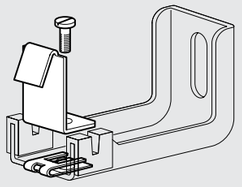
Reference: Screw-Fixing Bracket (30mm)

For Models: H11, H20, H21, H22



Reference: Screw-Fixing Bracket (60mm)

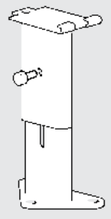
For Models: H10



Reference: KDS Safety Attachment

For Models: All models of less than 4 tubes

Feet & Supports



Adjustable Foot

Height: 90-120mm
120-150mm

PLEASE NOTE: Type of fixing must be specified at the time of order.

All dimensions are quoted in mm

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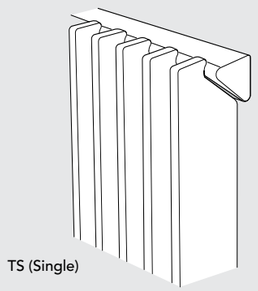
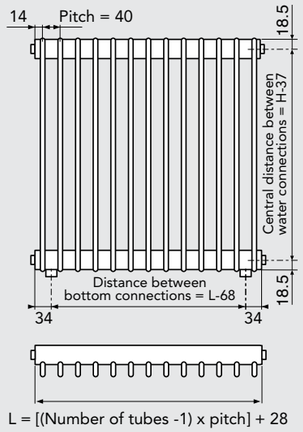
DÉCOR TS4 Range

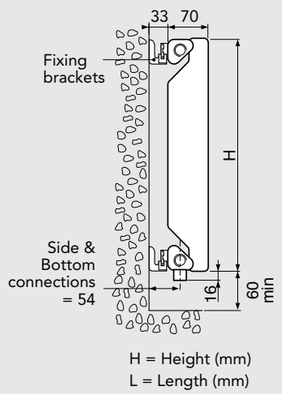


Model	Length (mm)	Height (mm)
TS4	From 148 to 988	From 500 to 4000

DÉCOR TS4 Connection Dimensions (mm)



L = [(Number of tubes -1) x pitch] + 28



H = Height (mm)
L = Length (mm)

NB: Stocked range of 2000m high products have bottom connections only.

DÉCOR TS4 Correction Factors for Δt other than 50

Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.296	0.316	0.336	0.357	0.377	0.398	0.420	0.441	0.463	0.485
30°C	0.508	0.530	0.553	0.576	0.599	0.623	0.647	0.671	0.695	0.719
40°C	0.744	0.768	0.793	0.819	0.844	0.870	0.895	0.921	0.947	0.974
50°C	1.000	1.027	1.053	1.080	1.108	1.135	1.162	1.190	1.218	1.246
60°C	1.274	1.302	1.330	1.359	1.388	1.416	1.445	1.475	1.504	1.533
70°C	1.563	1.593	1.622	1.652	1.682	1.713	1.743	1.774	1.804	1.835

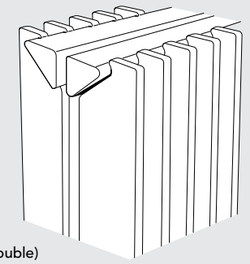
DÉCOR TS4 Heat Outputs - Watts @ Δt 50

Height (mm)	No. of Tubes - Length (mm)										
	4	5	6	7	8	9	10	11	12	13	14
	148	188	228	268	308	348	388	428	468	508	548
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	135	169	202	236	270	303	337	371	404	438	472
600	155	194	232	271	310	348	387	426	464	503	542
700	174	218	262	305	349	392	436	480	523	567	610
800	194	243	292	340	389	437	486	535	583	632	680
900	215	269	322	376	430	483	537	591	644	698	752
1000	235	294	353	412	470	529	588	647	706	764	823
1200	277	347	416	485	554	624	693	762	832	901	970
1400	322	402	482	563	643	724	804	884	965	1045	1126
1600	368	460	552	644	736	828	920	1012	1104	1196	1288
1800	416	520	624	728	832	936	1040	1144	1248	1352	1456
2000	468	585	702	819	936	1053	1170	1287	1404	1521	1638
2200	524	655	786	917	1048	1179	1310	1441	1572	1703	1834
2300	552	690	828	966	1104	1242	1380	1518	1656	1794	1932
2500	616	770	924	1078	1232	1386	1540	1694	1848	2002	2156
3000	784	980	1176	1372	1568	1764	1960	2156	2352	2548	2744
3500	984	1230	1476	1722	1968	2214	2460	2706	2952	3198	3444
4000	1220	1525	1830	2135	2440	2745	3050	3355	3660	3965	4270

Height (mm)	No. of Tubes - Length (mm)										
	15	16	17	18	19	20	21	22	23	24	25
	588	628	668	708	748	788	828	868	908	948	988
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	506	539	573	607	640	674	708	741	775	809	843
600	581	619	658	697	735	774	813	851	890	929	968
700	654	698	741	785	828	872	916	959	1003	1046	1090
800	729	778	826	875	923	972	1021	1069	1118	1166	1215
900	806	859	913	967	1020	1074	1128	1181	1235	1289	1343
1000	882	941	1000	1058	1117	1176	1235	1294	1352	1411	1470
1200	1040	1109	1178	1247	1317	1386	1455	1525	1594	1663	1733
1400	1206	1286	1367	1447	1528	1608	1688	1769	1849	1930	2010
1600	1380	1472	1564	1656	1748	1840	1932	2024	2116	2208	2300
1800	1560	1664	1768	1872	1976	2080	2184	2288	2392	2496	2600
2000	1755	1872	1989	2106	2223	2340	2457	2574	2691	2808	2925
2200	1965	2096	2227	2358	2489	2620	2751	2882	3013	3144	3275
2300	2070	2208	2346	2484	2622	2760	2898	3036	3174	3312	3450
2500	2310	2464	2618	2772	2926	3080	3234	3388	3542	3696	3850
3000	2940	3136	3332	3528	3724	3920	4116	4312	4508	4704	4900
3500	3690	3936	4182	4428	4674	4920	5166	5412	5658	5904	6150
4000	4575	4880	5185	5490	5795	6100	6405	6710	7015	7320	7625

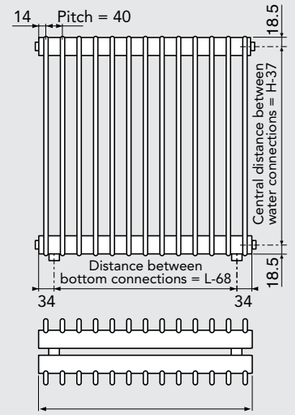
NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

DÉCOR TD4 Range

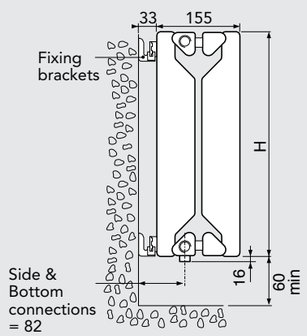


Model	Length (mm)	Height (mm)
TD4	From 148 to 988	From 500 to 4000

DÉCOR TD4 Connection Dimensions (mm)



L = [(Number of tubes -1) x pitch] + 28



H = Height (mm)
L = Length (mm)

DÉCOR TD4 Correction Factors for Δt other than 50

Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.297	0.317	0.337	0.358	0.378	0.399	0.421	0.442	0.464	0.486
30°C	0.509	0.531	0.554	0.577	0.600	0.624	0.648	0.671	0.696	0.720
40°C	0.744	0.769	0.794	0.819	0.844	0.870	0.896	0.921	0.947	0.974
50°C	1.000	1.027	1.053	1.080	1.107	1.134	1.162	1.189	1.217	1.245
60°C	1.273	1.301	1.329	1.358	1.386	1.415	1.444	1.473	1.502	1.531
70°C	1.561	1.590	1.620	1.650	1.680	1.710	1.740	1.770	1.801	1.831

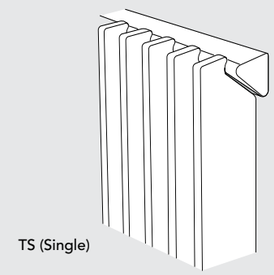
DÉCOR TD4 Heat Outputs - Watts @ Δt 50

Height (mm)	No. of Tubes - Length (mm)										
	4	5	6	7	8	9	10	11	12	13	14
	148	188	228	268	308	348	388	428	468	508	548
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	248	310	372	434	496	558	620	682	744	806	868
600	284	355	426	497	568	639	710	781	852	923	994
700	320	400	479	559	639	719	799	879	959	1039	1119
800	355	444	532	621	710	798	887	976	1064	1153	1242
900	390	487	584	682	779	877	974	1071	1169	1266	1364
1000	424	530	636	742	848	954	1060	1166	1272	1378	1484
1200	496	620	744	868	992	1116	1240	1364	1488	1612	1736
1400	568	710	852	994	1136	1278	1420	1562	1704	1846	1988
1600	640	800	960	1120	1280	1440	1600	1760	1920	2080	2240
1800	720	900	1080	1260	1440	1620	1800	1980	2160	2340	2520
2000	796	995	1194	1393	1592	1791	1990	2189	2388	2587	2786
2200	880	1100	1320	1540	1760	1980	2200	2420	2640	2860	3080
2300	924	1155	1386	1617	1848	2079	2310	2541	2772	3003	3234
2500	1008	1260	1512	1764	2016	2268	2520	2772	3024	3276	3528
3000	1244	1555	1866	2177	2488	2799	3110	3421	3732	4043	4354
3500	1504	1880	2256	2632	3008	3384	3760	4136	4512	4888	5264
4000	1796	2245	2694	3143	3592	4041	4490	4939	5388	5837	6286

Height (mm)	No. of Tubes - Length (mm)										
	15	16	17	18	19	20	21	22	23	24	25
	588	628	668	708	748	788	828	868	908	948	988
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	930	992	1054	1116	1178	1240	1302	1364	1426	1488	1550
600	1065	1136	1207	1278	1349	1420	1491	1562	1633	1704	1775
700	1199	1278	1358	1438	1518	1598	1678	1758	1838	1918	1998
800	1331	1419	1508	1597	1685	1774	1863	1951	2040	2129	2218
900	1461	1558	1656	1753	1851	1948	2045	2143	2240	2338	2435
1000	1590	1696	1802	1908	2014	2120	2226	2332	2438	2544	2650
1200	1860	1984	2108	2232	2356	2480	2604	2728	2852	2976	3100
1400	2130	2272	2414	2556	2698	2840	2982	3124	3266	3408	3550
1600	2400	2560	2720	2880	3040	3200	3360	3520	3680	3840	4000
1800	2700	2880	3060	3240	3420	3600	3780	3960	4140	4320	4500
2000	2985	3184	3383	3582	3781	3980	4179	4378	4577	4776	4975
2200	3300	3520	3740	3960	4180	4400	4620	4840	5060	5280	5500
2300	3465	3696	3927	4158	4389	4620	4851	5082	5313	5544	5775
2500	3780	4032	4284	4536	4788	5040	5292	5544	5796	6048	6300
3000	4665	4976	5287	5598	5909	6220	6531	6842	7153	7464	7775
3500	5640	6016	6392	6768	7144	7520	7896	8272	8648	9024	9400
4000	6735	7184	7633	8082	8531	8980	9429	9878	10327	10776	11225

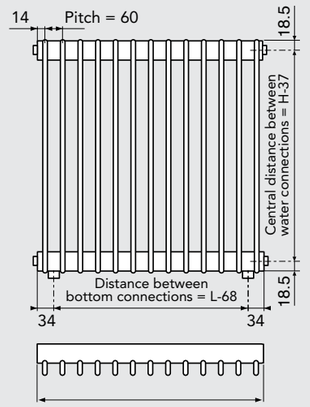
NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

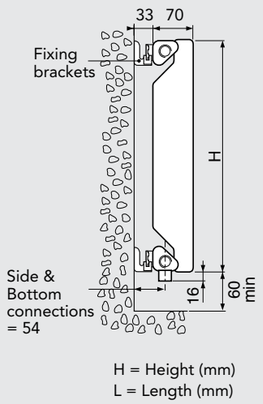
DÉCOR TS6 Range



Model	Length (mm)	Height (mm)
TS6	From 148 to 1168	From 500 to 4000
	From 148 to1468	From 500 to 1200

DÉCOR TS6 Connection Dimensions (mm)





DÉCOR TS6 Correction Factors for ∆t other than 50

Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.291	0.311	0.331	0.352	0.373	0.394	0.415	0.436	0.458	0.481
30°C	0.503	0.526	0.549	0.572	0.596	0.619	0.643	0.667	0.692	0.716
40°C	0.741	0.766	0.791	0.817	0.842	0.868	0.894	0.920	0.947	0.973
50°C	1.000	1.027	1.054	1.081	1.109	1.137	1.164	1.193	1.221	1.249
60°C	1.278	1.306	1.335	1.364	1.393	1.423	1.452	1.482	1.512	1.542
70°C	1.572	1.602	1.632	1.663	1.693	1.724	1.755	1.786	1.818	1.849

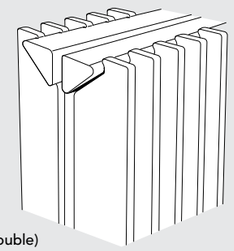
DÉCOR TS6 Heat Outputs - Watts @ ∆t 50

Height (mm)	No. of Tubes - Length (mm)										
	3	4	5	6	7	8	9	10	11	12	13
	148	208	268	328	388	448	508	568	628	688	748
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	120	160	200	239	279	319	359	399	439	479	519
600	138	184	230	275	321	367	413	459	505	551	597
700	156	208	260	311	363	415	467	519	571	623	675
800	174	232	290	347	405	463	521	579	637	695	753
900	192	256	320	383	447	511	575	639	703	767	831
1000	210	280	350	420	490	560	630	700	770	840	910
1200	247	330	412	494	577	659	742	824	906	989	1071
1400	286	381	477	572	667	762	858	953	1048	1144	1239
1600	327	436	545	654	763	872	981	1090	1199	1308	1417
1800	369	492	615	738	861	984	1107	1230	1353	1476	1599
2000	414	552	690	828	966	1104	1242	1380	1518	1656	1794
2200	459	612	765	918	1071	1224	1377	1530	1683	1836	1989
2300	483	644	805	966	1127	1288	1449	1610	1771	1932	2093
2500	534	712	890	1068	1246	1424	1602	1780	1958	2136	2314
3000	675	900	1125	1350	1575	1800	2025	2250	2475	2700	2925
3500	834	1112	1390	1668	1946	2224	2502	2780	3058	3336	3614
4000	1020	1360	1700	2040	2380	2720	3060	3400	3740	4080	4420

Height (mm)	No. of Tubes - Length (mm)											
	14	15	16	17	18	19	20	21	22	23	24	25
	808	868	928	988	1048	1108	1168	1228	1288	1348	1408	1468
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	559	599	638	678	718	758	798	838	878	918	958	998
600	643	689	734	780	826	872	918	964	1010	1056	1102	1148
700	727	779	830	882	934	986	1038	1090	1142	1194	1246	1298
800	811	869	926	984	1042	1100	1158	1216	1274	1332	1390	1448
900	895	959	1022	1086	1150	1214	1278	1342	1406	1470	1534	1598
1000	980	1050	1120	1190	1260	1330	1400	1470	1540	1610	1680	1750
1200	1154	1236	1318	1401	1483	1566	1648	1730	1813	1895	1978	2060
1400	1334	1430	1525	1620	1715	1811	1906	-	-	-	-	-
1600	1526	1635	1744	1853	1962	2071	2180	-	-	-	-	-
1800	1722	1845	1968	2091	2214	2337	2460	-	-	-	-	-
2000	1932	2070	2208	2346	2484	2622	2760	-	-	-	-	-
2200	2142	2295	2448	2601	2754	2907	3060	-	-	-	-	-
2300	2254	2415	2576	2737	2898	3059	3220	-	-	-	-	-
2500	2492	2670	2848	3026	3204	3382	3560	-	-	-	-	-
3000	3150	3375	3600	3825	4050	4275	4500	-	-	-	-	-
3500	3892	4170	4448	4726	5004	5282	5560	-	-	-	-	-
4000	4760	5100	5440	5780	6120	6460	6800	-	-	-	-	-

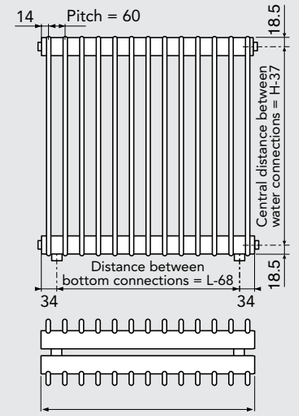
NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

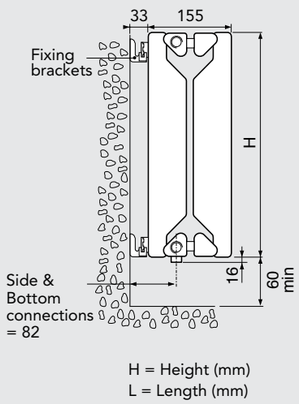
DÉCOR TD6 Range



Model	Length (mm)	Height (mm)
TD6	From 148 to 1168	From 500 to 4000
	From 148 to 1468	From 500 to 1200

DÉCOR TD6 Connection Dimensions (mm)





DÉCOR TD6 Correction Factors for ∆t other than 50

Temperature	Units									
	0	+1°C	+2°C	+3°C	+4°C	+5°C	+6°C	+7°C	+8°C	+9°C
20°C	0.291	0.311	0.331	0.352	0.373	0.394	0.415	0.436	0.458	0.481
30°C	0.503	0.526	0.549	0.572	0.595	0.619	0.643	0.667	0.691	0.716
40°C	0.741	0.766	0.791	0.816	0.842	0.868	0.894	0.920	0.947	0.973
50°C	1.000	1.027	1.054	1.082	1.109	1.137	1.165	1.193	1.221	1.249
60°C	1.278	1.307	1.336	1.365	1.394	1.423	1.453	1.482	1.512	1.542
70°C	1.572	1.603	1.633	1.664	1.694	1.725	1.756	1.787	1.819	1.850

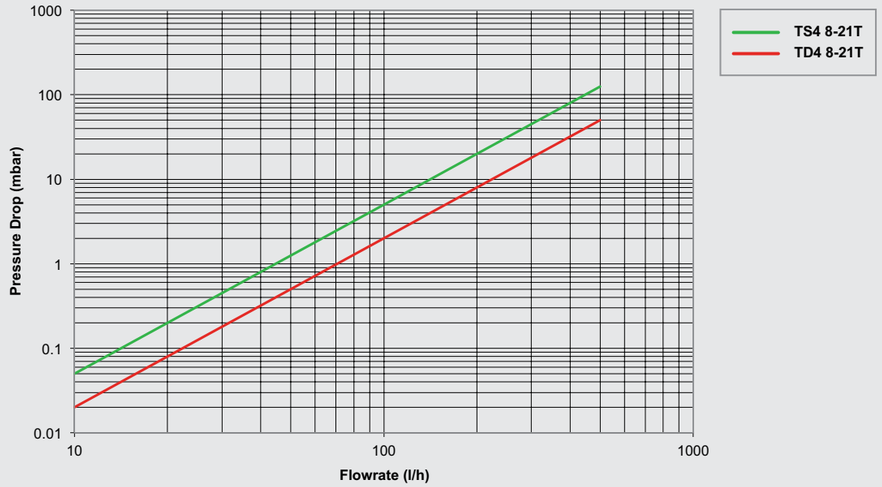
DÉCOR TD6 Heat Outputs - Watts @ ∆t 50

Height (mm)	No. of Tubes - Length (mm)										
	3	4	5	6	7	8	9	10	11	12	13
	148	208	268	328	388	448	508	568	628	688	748
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	216	288	360	431	503	575	647	719	791	863	935
600	250	333	416	499	582	666	749	832	915	998	1082
700	284	378	473	567	662	756	851	945	1040	1134	1229
800	318	424	530	636	742	848	954	1060	1166	1272	1378
900	351	468	585	702	819	936	1053	1170	1287	1404	1521
1000	384	512	640	768	896	1024	1152	1280	1408	1536	1664
1200	450	600	750	900	1050	1200	1350	1500	1650	1800	1950
1400	519	692	865	1038	1211	1384	1557	1730	1903	2076	2249
1600	588	784	980	1176	1372	1568	1764	1960	2156	2352	2548
1800	660	880	1100	1320	1540	1760	1980	2200	2420	2640	2860
2000	732	976	1220	1464	1708	1952	2196	2440	2684	2928	3172
2200	810	1080	1350	1620	1890	2160	2430	2700	2970	3240	3510
2300	849	1132	1415	1698	1981	2264	2547	2830	3113	3396	3679
2500	927	1236	1545	1854	2163	2472	2781	3090	3399	3708	4017
3000	1137	1516	1895	2274	2653	3032	3411	3790	4169	4548	4927
3500	1368	1824	2280	2736	3192	3648	4104	4560	5016	5472	5928
4000	1623	2164	2705	3246	3787	4328	4869	5410	5951	6492	7033

Height (mm)	No. of Tubes - Length (mm)											
	14	15	16	17	18	19	20	21	22	23	24	25
	808	868	928	988	1048	1108	1168	1228	1288	1348	1408	1468
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
500	1007	1079	1150	1222	1294	1366	1438	1510	1582	1654	1726	1798
600	1165	1248	1331	1414	1498	1581	1664	1747	1830	1914	1997	2080
700	1323	1418	1512	1607	1701	1796	1890	1985	2079	2174	2268	2363
800	1484	1590	1696	1802	1908	2014	2120	2226	2332	2438	2544	2650
900	1638	1755	1872	1989	2106	2223	2340	2457	2574	2691	2808	2925
1000	1792	1920	2048	2176	2304	2432	2560	2688	2816	2944	3072	3200
1200	2100	2250	2400	2550	2770	2850	3000	3150	3300	3450	3600	3750
1400	2422	2595	2768	2941	3114	3287	3460	-	-	-	-	-
1600	2744	2940	3136	3332	3528	3724	3920	-	-	-	-	-
1800	3080	3300	3520	3740	3960	4180	4400	-	-	-	-	-
2000	3416	3660	3904	4148	4392	4636	4880	-	-	-	-	-
2200	3780	4050	4320	4590	4860	5130	5400	-	-	-	-	-
2300	3962	4245	4528	4811	5094	5377	5660	-	-	-	-	-
2500	4326	4635	4944	5253	5562	5871	6180	-	-	-	-	-
3000	5306	5685	6064	6443	6822	7201	7580	-	-	-	-	-
3500	6384	6840	7296	7752	8208	8664	9120	-	-	-	-	-
4000	7574	8115	8656	9197	9738	10279	10820	-	-	-	-	-

NB: Heat outputs for other heights can be calculated approximately pro-rata from adjacent sizes.

TS & TD Pressure Drop Chart



NB: The chart above shows the standard stock range pressure drop in mbar.

TS & TD Range Pressure Drop

Models	Connections	Number of Tubes																	
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
TS	Uni	2.6	1.9	1.6	1.4	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0
	17 & 18	19.1	8.3	6.2	5.5	5.2	5.0	4.9	4.9	4.8	4.8	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
TD	Uni	1.4	1.2	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	17 & 18	5.5	2.8	2.3	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

NB: The table shows pressure drop in mbar for 100 l/h flow rate.

Pressure Drop Correction Factors in Relation to Flow Rate (l/h)

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
0	0	0.003	0.010	0.023	0.04	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.64	0.72	0.81	0.90
100	1.00	1.10	1.21	1.32	1.44	1.56	1.69	1.82	1.96	2.10	2.25	2.40	2.56	2.72	2.89	3.06	3.24	3.42	3.61	3.80
200	4.00	4.20	4.41	4.62	4.84	5.06	5.29	5.52	5.76	6.00	6.25	6.50	6.76	7.02	7.29	7.56	7.84	8.12	8.41	8.70
300	9.00	9.30	9.61	9.92	10.24	10.56	10.89	11.22	11.56	11.90	12.25	12.60	12.96	13.32	13.69	14.06	14.44	14.82	15.21	15.60
400	16.00	16.40	16.81	17.22	17.64	18.06	18.49	18.92	19.36	19.80	20.25	20.70	21.16	21.62	22.09	22.56	23.04	23.52	24.01	24.50

Example: For a flow rate of 150 l/h, the pressure drop is multiplied by 2.25 compared to 100 l/h.

Note: The above values were determined with a tube length of 2m, but the actual tube length has a very limited effect on pressure drop.

Important: We draw your attention to the pressure drop on certain models which must be taken into consideration before designing the installation.

Connection in series: this has its limitations and proper steps must be taken to avoid under-sizing of radiators.

System Design & Commissioning

All systems must be designed with suitable pipe sizing (15 or 22mm minimum depending on the length of run) and with a pump of adequate pump head.

Failure to do this may lead to trapped air and cold spots because there is insufficient pressure and water flow to drive the air from the radiator. The taller the radiator, and the more tubes a radiator has, the more likely this is to happen.

In instances where pipe-work and/or pumps have not been upgraded, and there is trapped air inside the radiators, closing down all other radiators in the system to promote circulation through the radiator may help to clear the air. Once the air is clear, the system should be properly balanced to maintain flow through the radiator.

If there is still trapped air the following procedure may also be used:

- Isolate radiator and drain down
- With the inlet valve closed and air vent open, backfill slowly via the outlet valve
- If no drain-off facility exists, slacken the valve coupling on the inlet side with the inlet valve still closed and allow water to flow freely out of the radiator into a suitable receptacle for a few minutes before retightening the valve coupling (Suitable drain-off facilities are advantageous)
- Open the inlet valve and bleed the radiator from the vent in the normal manner
- Balance the system.

TS & TD Range Weight and Water Contents per Tube

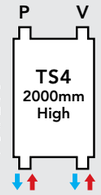
Model	Weight (kg) Water (l)	Height (mm)												
		600	800	1000	1200	1400	1600	1800	2000	2200	2400	3000	3500	4000
TS4 (40mm Pitch)	Weight	0.95	1.25	1.55	1.85	2.15	2.45	2.75	3.05	3.35	3.65	4.55	5.30	6.05
	Water	0.43	0.54	0.66	0.77	0.88	0.99	1.10	1.22	1.33	1.44	1.78	2.06	2.34
TD4 (40mm Pitch)	Weight	1.90	2.50	3.10	3.70	4.30	4.90	5.50	6.10	6.70	7.30	9.10	10.60	12.10
	Water	0.86	1.09	1.31	1.54	1.76	1.98	2.21	2.43	2.66	2.88	3.55	4.11	4.67
TS6 (60mm Pitch)	Weight	1.01	1.31	1.61	1.91	2.21	2.51	2.81	3.11	3.41	3.71	4.61	5.36	6.11
	Water	0.48	0.59	0.70	0.82	0.93	1.04	1.15	1.26	1.38	1.49	1.82	2.10	2.38
TD6 (60mm Pitch)	Weight	2.02	2.62	3.22	3.82	4.42	5.02	5.62	6.22	6.82	7.42	9.22	10.72	12.22
	Water	0.96	1.18	1.41	1.63	1.86	2.08	2.30	2.53	2.75	2.98	3.65	4.21	4.77

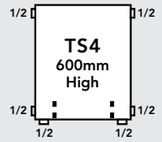
NB: Weight and water content of intermediate heights can be calculated pro-rata from the values in the table.

TS & TD Range Connection Options

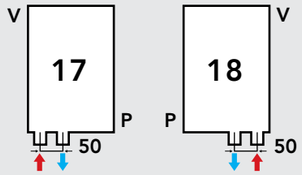
Standard Stock Connections (1/2 BSP)*

This connection is only available on the standard stock radiators and not as a special order.

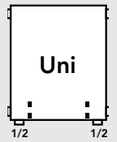




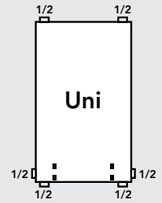
50mm Connection Spacing*



Universal Connection



For radiator heights smaller than or equal to 1200mm



For radiator heights greater than 1200mm

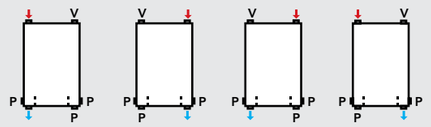
In order for the flow water to circulate around the radiator effectively, it is advised that you fit the "insert" into the radiator baffle in certain connection options.

Key

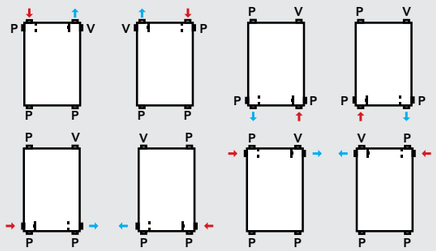
- Flow Water Inlet
- Return Water Outlet
- V Air Vent
- P Plug
- Baffle Without Insert
- Baffle With Insert (manual insertion required - see below)

(Please refer to page 33 for a list of accessories supplied with the universal connection).

Connection Options without the need for an Insert

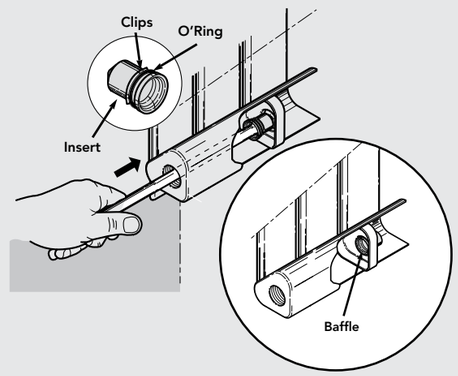


Connection Options which require an Insert



Fitting the Insert into Baffle

(where indicated on the diagram opposite with a ▮)

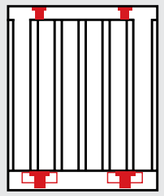


*For factory fitted baffle locations, please contact customer services 0845 402 3434

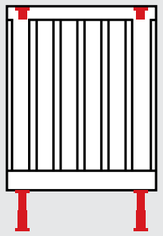
Dimension Possibilities (by number of tubes)

Connections	Fixing Ref 001		Fixing Ref 002 and 012		Fixing Ref 003 and 013		Fixing Ref 004	
	Pitch		Pitch		Pitch		Pitch	
	40	60	40	60	40	60	40	60
Uni	4 to 25	3 to 25	8 to 25	6 to 25	8 to 25	6 to 25	10 to 25	10 to 25
17 & 18	4 to 25	3 to 25	8 to 25	6 to 25	8 to 25	6 to 25	10 to 25	10 to 25

TS4, TD4, TS6, TD6 (TS & TD Range)

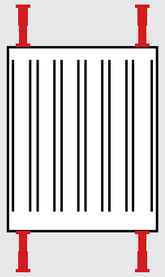


REF. 001
Wall mounted
= standard fixing system



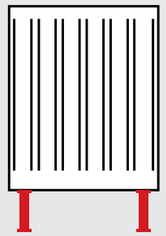
REF. 002
Wall mounted with adjustable feet
90 to 120mm

REF. 012
Wall mounted with adjustable feet 120 to 150mm



REF. 003
90 to 120mm ceiling support mounting and adjustable feet
90 to 120mm

REF. 013
90 to 120mm ceiling support mounting and adjustable feet 120 to 150mm



REF. 004
Welded feet for extra stability (maximum 1100mm high radiatior)

Screw-fixing brackets included in the price of the stocked radiator.

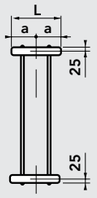
Key: Bracket | Ceiling Support | Adjustable Foot | Welded Foot

WARNING: Please specify at time of ordering a UNIVERSAL CONNECTION with either fixing ref 002, 012 or 004 if the connections are to be at the top or bottom.

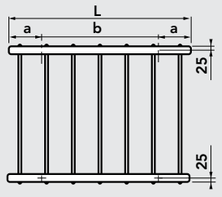
Please Note: No modification can be made after manufacture.

Fixing System REF. 001 (TS & TD Range)

(2 Brackets)

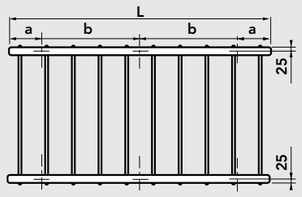


(4 Brackets)



b = L - (2 x a)

(6 Brackets)



$b = \frac{L - (2 \times a)}{2}$

L = Length

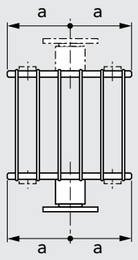
Dimension 'a' in relation to pitch in mm

Pitch	Tubes						
	2	3	4	5	6	7	8 to 25
TS4 - 40	34	54	30	30	30	30	74
TS6 - 60	44	74	40	74	74	74	74

L = (Number of tubes - 1) x pitch + 28mm.
For radiators more than 25 tubes (40 or 60 pitch) please enquire.

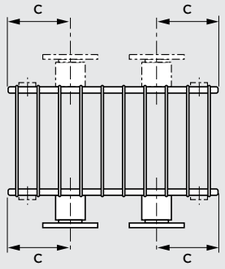
Number of Brackets	Number of Tubes According to Pitch	
	TS4 - 40mm	TS6 - 60mm
2	2 & 3	2 & 3
4	4 to 24	4 to 24
6	25	25

Fixing System REF. 002, 003, 012, 013 (TS & TD Range)



Pitch	No. of Tubes
TS4 - 40	6 to 8
TS6 - 60	6

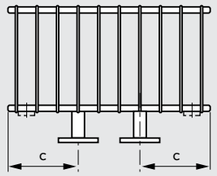
a = Length / 2



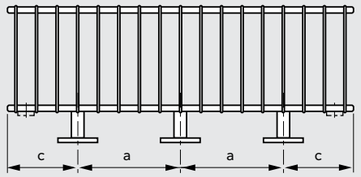
Pitch	No. of Tubes	c
TS4 - 40	9 to 25	114
TS6 - 60	7 to 25	104

All dimensions are quoted in mm

Welded Feet Bracket REF. 004 (TS & TD Range)



Pitch	No. of Tubes	c
TS4 - 40	10 to 25	134
TS6 - 60	10 to 25	134



Pitch	No. of Tubes	c
TS4 - 40	41 to 25	134

$a = \frac{L - (2 \times a)}{2}$

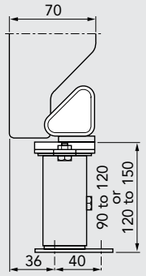
L = Length

These measurements are not valid for connections 17-18. Please enquire.

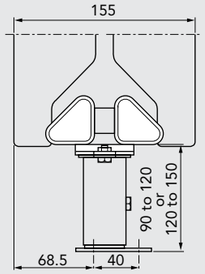
Maximum Height for Welded Feet = 1100mm

Adjustable Feet

TS

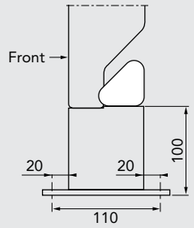


TD

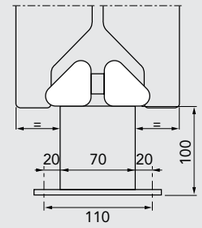


Welded Feet

TS

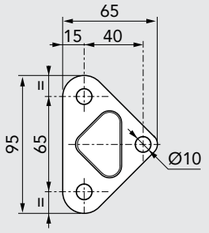


TD



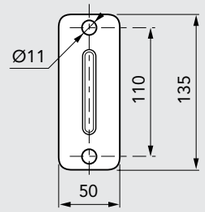
Floor Plates

Adjustable Feet



Thickness = 2.5mm

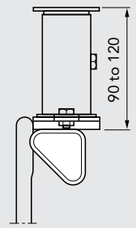
Welded Feet



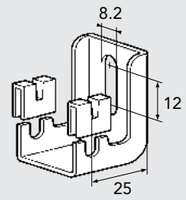
Thickness = 8mm

Ceiling Support

For Vertical Panels & TS/TD Range

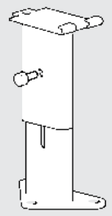


Screw-Fixing Brackets

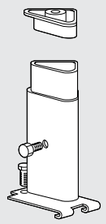


Reference:
Screw-Fixing Bracket (30mm)

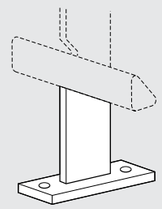
Feet & Supports



Adjustable Foot
Height: 90-120mm
120-150mm



Ceiling Support
Height: 90-120mm



Welded 100mm Feet for extra stability

PLEASE NOTE: Type of fixing must be specified at the time of order.

All dimensions are quoted in mm

Heat Output Calculation

All heat outputs listed in this brochure are quoted at ΔT30, for low temperature systems, and ΔT50. To calculate outputs at alternative ΔT, please use the following steps:

Symbols used:

t_1 = Flow temperature
t_2 = Return temperature
t_r = Ambient air temperature
ΔT = Delta T
Φ = Heat output

ΔT_{50} = Temperature difference between water and air

EG:

$$\Delta T = \left(\frac{t_1 + t_2}{2}\right) - t_r$$

t_1 = 75°C, t_2 = 65°C, t_r = 20°C

Therefore:

$$\Delta T = \left(\frac{75 + 65}{2}\right) - 20$$

$\Delta T = 50$ (shown as ΔT_{50})

ΔT_X = If other conditions are used then a new ΔT needs to be determined:

EG:

For the condition 80/70/18

$$\Delta T_X = \left(\frac{t_1 + t_2}{2}\right) - t_r$$

t_1 = 80°C, t_2 = 70°C, t_r = 18°C

Therefore:

$$\Delta T_X = \left(\frac{80 + 70}{2}\right) - 18$$

$\Delta T_X = 57$ (shown as ΔT_{57})

$\Phi_{\Delta T50}$ = Heat output at ΔT_{50} or the condition 75/65/20

EG:

A 12H11120
(905 x 1200 T11) gives 1676W @ ΔT_{50}

$\Phi_{\Delta TX}$ = Heat output at an alternative ΔT or condition to ΔT_{50} or 75/65/18

EG:

For ΔT_{57} or the condition 80/70/18
(see example above)

$$\Phi_{\Delta TX} = \Phi_{\Delta T50} \times \left(\frac{\Delta T_X}{\Delta T_{50}}\right)^n$$

$\Phi_{\Delta TX} = \Phi_{\Delta T57}$, $\Phi_{\Delta T50}$ = 1676W, $\Delta T_X = \Delta T_{57} = 57$, ΔT_{50} = 50, n = 1.3295 (see individual product pages for n-coefficients)

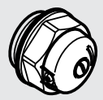
Therefore:

$$\Phi_{\Delta TX} = 1676 \times \left(\frac{57}{50}\right)^{1.3295}$$

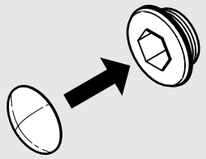
$\Phi_{\Delta T57}$ = 1994W

Accessories Supplied for Universal Connections (V & TS Range Only)

1 x Air Vent

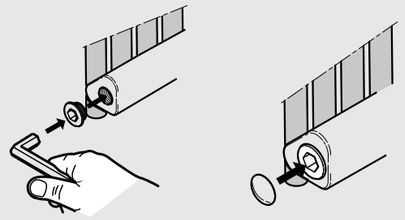


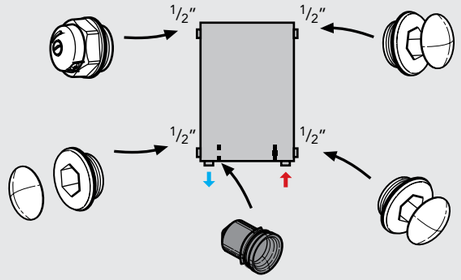
3 x Blank Plugs



1 x Baffle Insert

Installation of Blank Plugs





Colour Options

The standard colour for MYSON DÉCOR radiators is white RAL 9016. This finish will provide a long lasting, high quality appearance in your home. MYSON DÉCOR radiators are also available in RAL and sanitary colours and in our special textured, metallic or shimmer metallic finishes*, giving you the ability to personalise and complement your room design. Simply specify your preference when ordering.

STANDARD RAL COLOURS

MYSON offers the following RAL colours. If the colour you require is not included in this colour chart, please contact our customer services for availability. **Standard RAL colours are 70% gloss.**

Traffic White RAL 9016	Traffic Blue RAL 5017	Red Violet RAL 4002	Light Grey RAL 7035
Pure White RAL 9010	Night Blue RAL 5022	Purple Violet RAL 4007	Window Grey RAL 7040
Cream RAL 9001	Ultramarine Blue RAL 5002	Signal Violet RAL 4008	Silver Grey RAL 7001
Traffic Yellow RAL 1023	Green Blue RAL 5001	Pastel Violet RAL 4009	Dusty Grey RAL 7037
Lemon Yellow RAL 1012	Jet Black RAL 9005	Light Pink RAL 3015	Stone Grey RAL 7030
Golden Yellow RAL 1004	Black Grey RAL 7021	Antique Pink RAL 3014	Brown Grey RAL 7013
Curry Yellow RAL 1027	Dahlia Yellow RAL 1033	Pastel Green RAL 6019	Slate Grey RAL 7015
Pastel Turquoise RAL 6034	Pastel Orange RAL 2003	Mint Turquoise RAL 6033	Anthracite Grey RAL 7016
Pigeon Blue RAL 5014	Pure Orange RAL 2004	Blue Green RAL 6004	Graphite Grey RAL 7024
Azure Blue RAL 5009	Flame Red RAL 3000	Chocolate Brown RAL 8017	White Aluminium RAL 9006
Sky Blue RAL 5015	Wine Red RAL 3005	Grey Brown RAL 8019	Grey Aluminium RAL 9007

SANITARY COLOURS

MYSON offers the following sanitary colours. If the colour you require is not included in this colour chart, please contact our customer services for availability. **Sanitary colours are 50% gloss.**

Jasmine S0075	Pergamon S0091	Natural S0094	Bahama Beige S0087
Manhatten S0088			

SPECIAL COLOURS

MYSON also offers the following textured, metallic and shimmer metallic colours.

TEXTURED

Black Textured S0141	White Textured S0142

METALLIC

Cream White S0145	Light Grey S0143	Brown Grey S0144	Anodic Natural S0149
Anodic Bronze S0146	Anodic Brown S0147	Anodic Black S0148	

SHIMMER METALLIC

Metal Alu S0201	Metal Black S0104	Metal Grey S0102

All our non-stocked and special colour items are made to order. Should an order be cancelled after it has been placed with the factory an administration fee of 30% of the product value may be applied.

Please note: due to print restrictions exact colour match is not always possible, however every effort has been made to ensure as much accuracy as possible.
*Price supplement and cancellation policy applies.

DÉCOR RADIATORS H, V & TS MODELS TECHNICAL GUIDE 01.07.2017

MYSON

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COMPLETE HEATING SOLUTIONS

01.07.17