

Merriott

Precision & Precision Plus



What does Merriott stand for?

Our bespoke heating and cooling solutions are the better choice for commercial applications across the UK and Ireland.

Merriott offers a diverse and versatile range of designer heating solutions.

Whether they are building consultants, architects or designers, our customers can tailor our bespoke range of products to satisfy their specification requirements.

We have invested in world-class production facilities and manufacture products of the very highest standard - backed by revolutionary technology, rigorous testing and stringent quality control.

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

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

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**Now includes
Precision Plus**
with extended
heights & sizes



Precision

Precision-engineered for performance, style, and sustainability.

At Merriott, we believe heating solutions should never compromise on quality, efficiency, or aesthetics. That's why our Precision range of radiators is crafted to meet the highest industry standards - offering superior heat output, robust construction, and sleek design options to suit any commercial environment. Whether you're specifying for a new build or a refurbishment project, our horizontal and vertical models provide the versatility and performance that architects, consultants, and designers demand.

With a wide range of sizes, configurations, and RAL colour finishes, the Precision range is designed to fit seamlessly into your project requirements. Every radiator is manufactured in state-of-the-art facilities, rigorously tested, and backed by a 10 year warranty - reflecting our commitment to durability, innovation, and long-term customer satisfaction. From specification to installation, Merriott stands by your side with expert support and engineering excellence.



Range Overview

Precision

Merriott Precision radiators are horizontal and vertical tubular radiators that offer a high quality, robust design with a high heat output and a low water content. Precision horizontal radiators offer outputs ranging from 74 watts to 7902 watts at $\Delta T50^{\circ}\text{C}$. Precision vertical radiator offers outputs ranging from 248W to 4199 W at $\Delta T50^{\circ}\text{C}$.

Horizontal Precision radiators are available in height increments of 72.5mm, from a minimum of 143mm through to 868mm, with lengths available in increments of 100mm, from a minimum of 500mm to a maximum of 3000mm.

Vertical Precision radiators are available in heights from 600mm to 3000mm in 100mm increments. The width of the vertical radiator increases in increments of 72.5mm, from a minimum of 288mm to a maximum of 868mm.

OUTPUTS

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

FINISH

Every Merriott Precision radiator undergoes an intensive pre-treatment process to protect against rust. In pre-treatment, the radiators are degreased, coated with iron phosphate and rinsed prior to painting. A cathodic electrodeposition primer coating is then applied to give total coverage of the bare steel and maximum corrosion protection. The durable topcoat (epoxy polyester powder) is electrostatically applied and stove enamel baked at 180°C . The process is monitored to ensure continuous achievement of optimum adhesion, opacity and gloss levels.

COLOUR

Our standard finish is semi-gloss RAL 9016 (white) in epoxy polyester powder.

An extensive range of other RAL colours are available on request.

PACKAGING

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

CONNECTIONS

Standard connections are 4 x 1/2" with 1/2" blank plug and vent.

Please see pages 31-33 for all connection options.

TESTING

The standard test pressure is 7 Bar giving a maximum operating pressure of 5.38 Bar.

DIMENSIONAL TOLERANCES

Dimensional tolerances are in accordance with EN442.

MATERIALS

Merriott Precision radiators are manufactured from flat steel tubes, 70mm x 11mm, with a standard thickness of 1.5mm.

MOUNTING

Mounting supports at the rear of the radiator fix securely to wall-mounted brackets.

Floor-mounted supports (feet) are available on request and should be specified at quotation.

Please see pages 26-30 for all mounting information and options.

WARRANTY

Merriott radiators are guaranteed for a period of 10 years from date of purchase in respect of defective materials and workmanship. The system should be designed in accordance with British Standard Code of Practice for Water Based Heating Systems in Buildings **BS EN 12828:2012+A1:2014** and **BS EN 12831: 2003**.

The installation and commissioning of the system should comply with **BS EN 14336:2004**. On completion of the installation, the system should be properly flushed and filled in accordance with the British Code of Practice for the Treatment of Water in Domestic Hot Water Central Heating Systems **BS 7593:2006**, Part L of Building Regulations and Good Practice Guidance for Scotland. Merriott strongly recommends the use of corrosion inhibitor for all applications. Failure to observe these standards may invalidate the manufacturer's warranty.

Range Options

Precision Horizontal models

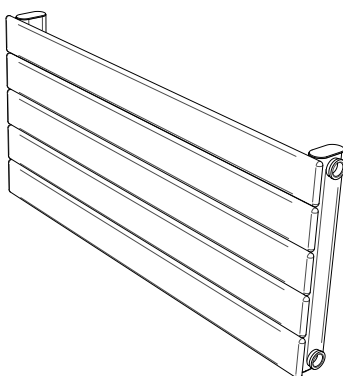
- Reduced fin option available* - see page 19
- Heavy duty grilles are available for reduced fin Precision radiators only (see page 19 for grille options)

Height: Ranges from 143mm to 868mm, in increments of 72.5mm

Length: Ranges from 500mm to 3000mm in increments of 100mm

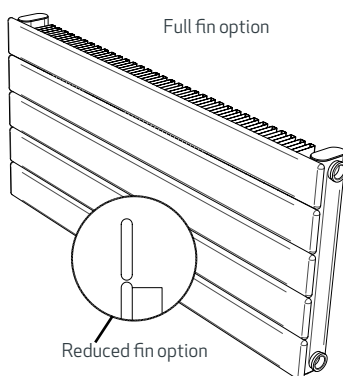
H10

Single panel
No convector fin



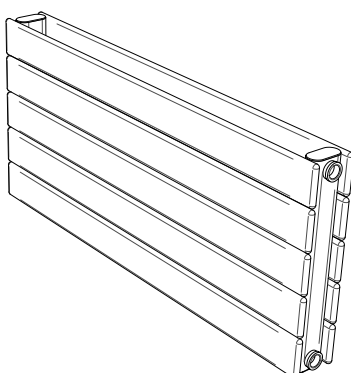
H11

Single panel
One convector fin



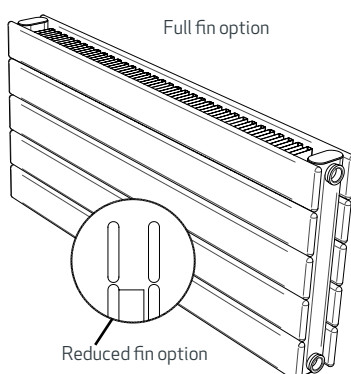
H20

Double panel
No convector fin



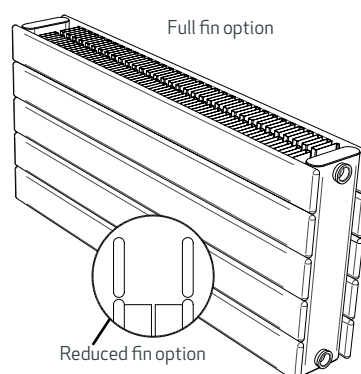
H21

Double panel
One convector fin



H22S

Double panel
Two convector fins, face-to-face in centre of the panels



* Reduced fin option is not available on 143mm & 215 heights

Range Options

Precision Vertical models

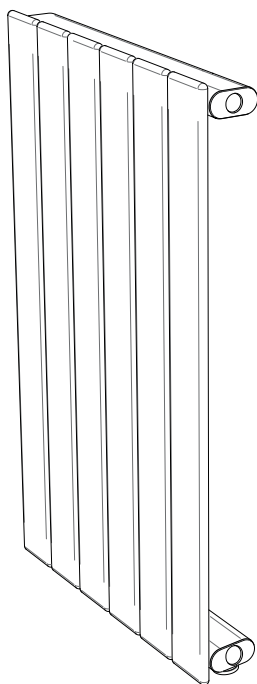
- Vertical Precision radiators can be manufactured with side grilles
- Grilles must be specified at the point of quotation (see page 19 for grille options)

Height: Ranges from 600mm to 3000mm in increments of 100mm

Width: Ranges from 288mm to 868mm, in increments of 72.5mm

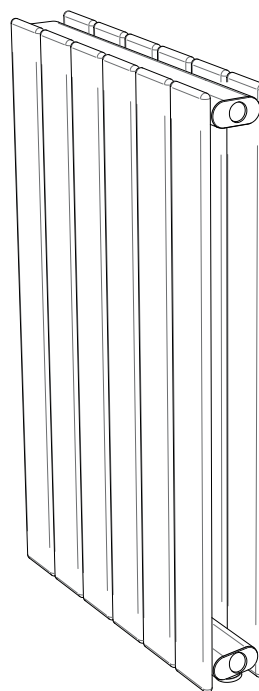
V10

Single Vertical Panel
No Convector Fin



V20

Double Vertical Panel
No Convector Fin



Heat Outputs

Precision Horizontal models - 143mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.09		1.09		1.19		1.18		1.13	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	74	42	134	77	141	76	218	170	330	184
600	88	50	161	92	169	92	262	204	395	221
700	103	59	188	107	197	107	305	238	461	258
800	118	67	214	123	225	122	349	272	527	295
900	132	76	241	138	253	137	392	306	593	332
1000	147	84	268	153	281	153	436	340	659	369
1100	162	92	295	169	309	168	480	374	725	406
1200	176	101	322	184	337	183	523	408	791	443
1300	191	109	348	199	365	198	567	442	857	480
1400	206	117	375	215	393	214	610	476	923	517
1500	221	126	402	230	422	229	654	510	989	553
1600	235	134	429	245	450	244	698	544	1054	590
1700	250	143	456	261	478	260	741	578	1120	627
1800	265	151	482	276	506	275	785	612	1186	664
1900	279	159	509	291	534	290	828	646	1252	701
2000	294	168	536	307	562	305	872	680	1318	738
2100	309	176	563	322	590	321	916	714	1384	775
2200	323	185	590	337	618	336	959	748	1450	812
2300	338	193	616	353	646	351	1003	782	1516	849
2400	353	201	643	368	674	366	1046	816	1582	885
2500	368	210	670	383	703	382	1090	850	1648	922
2600	382	218	697	399	731	397	1134	884	1713	959
2700	397	227	724	414	759	412	1177	918	1779	996
2800	412	235	750	429	787	427	1221	952	1845	1033
2900	426	243	777	445	815	443	1264	986	1911	1070
3000	441	252	804	460	843	458	1308	1020	1977	1107

NOTE:

All outputs are in accordance with BS EN442 certification.

Reduced fin option is not available on 143mm heights.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 215mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.13		1.13		1.21		1.18		1.18	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	108	61	196	110	206	111	312	170	453	247
600	130	73	235	131	247	133	374	204	544	297
700	151	85	274	153	288	155	436	238	634	346
800	173	97	314	175	330	177	498	272	725	396
900	194	109	353	197	371	200	561	306	815	445
1000	216	121	392	219	412	222	623	340	906	495
1100	238	133	431	241	453	244	685	374	997	544
1200	259	145	470	263	494	266	748	408	1087	593
1300	281	157	510	285	536	288	810	442	1178	643
1400	302	169	549	307	577	311	872	476	1268	692
1500	324	182	588	329	618	333	935	510	1359	742
1600	346	194	627	351	659	355	997	544	1450	791
1700	367	206	666	372	700	377	1059	578	1540	841
1800	389	218	706	394	742	399	1121	612	1631	890
1900	410	230	745	416	783	421	1184	646	1721	940
2000	432	242	784	438	824	444	1246	680	1812	989
2100	454	254	823	460	865	466	1308	714	1903	1039
2200	475	266	862	482	906	488	1371	748	1993	1088
2300	497	278	902	504	948	510	1433	782	2084	1138
2400	518	291	941	526	989	532	1495	816	2174	1187
2500	540	303	980	548	1030	554	1558	850	2265	1236
2600	562	315	1019	570	1071	577	1620	884	2356	1286
2700	583	327	1058	592	1112	599	1682	918	2446	1335
2800	605	339	1098	614	1154	621	1744	952	2537	1385
2900	626	351	1137	635	1195	643	1807	986	2627	1434
3000	648	363	1176	657	1236	665	1869	1020	2718	1484

NOTE:

All outputs are in accordance with BS EN442 certification.

Reduced fin option is not available on 215mm heights.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 288mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.17		1.18		1.23		1.22		1.23	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	144	79	259	141	273	145	410	219	568	302
600	172	95	311	170	327	174	492	263	682	363
700	201	111	363	198	382	203	574	307	795	423
800	230	126	414	226	436	233	656	351	909	484
900	258	142	466	254	491	262	738	395	1022	544
1000	287	158	518	283	545	291	820	438	1136	604
1100	316	174	570	311	600	320	902	482	1250	665
1200	344	189	622	339	654	349	984	526	1363	725
1300	373	205	673	368	709	378	1066	570	1477	786
1400	402	221	725	396	763	407	1148	614	1590	846
1500	431	237	777	424	818	436	1230	658	1704	907
1600	459	253	829	452	872	465	1312	702	1818	967
1700	488	268	881	481	927	494	1394	745	1931	1028
1800	517	284	932	509	981	523	1476	789	2045	1088
1900	545	300	984	537	1036	552	1558	833	2158	1148
2000	574	316	1036	566	1090	581	1640	877	2272	1209
2100	603	332	1088	594	1145	610	1722	921	2386	1269
2200	631	347	1140	622	1199	640	1804	965	2499	1330
2300	660	363	1191	650	1254	669	1886	1009	2613	1390
2400	689	379	1243	679	1308	698	1968	1052	2726	1451
2500	718	395	1295	707	1363	727	2050	1096	2840	1511
2600	746	410	1347	735	1417	756	2132	1140	2954	1572
2700	775	426	1399	763	1472	785	2214	1184	3067	1632
2800	804	442	1450	792	1526	814	2296	1228	3181	1692
2900	832	458	1502	820	1581	843	2378	1272	3294	1753
3000	861	474	1554	848	1635	872	2460	1315	3408	1813

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 360mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.20		1.18		1.24		1.23		1.28	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	179	96	341	186	338	179	490	260	675	350
600	214	116	409	223	406	214	587	312	809	420
700	250	135	477	260	473	250	685	364	944	490
800	286	154	545	297	541	286	783	416	1079	560
900	321	174	613	334	608	322	881	468	1214	630
1000	357	193	681	372	676	357	979	520	1349	700
1100	393	212	749	409	744	393	1077	572	1484	770
1200	428	231	817	446	811	429	1175	624	1619	840
1300	464	251	885	483	879	465	1273	676	1754	910
1400	500	270	953	520	946	500	1371	728	1889	980
1500	536	289	1022	557	1014	536	1469	780	2024	1050
1600	571	308	1090	594	1082	572	1566	832	2158	1120
1700	607	328	1158	632	1149	607	1664	884	2293	1190
1800	643	347	1226	669	1217	643	1762	936	2428	1260
1900	678	366	1294	706	1284	679	1860	988	2563	1330
2000	714	386	1362	743	1352	715	1958	1040	2698	1400
2100	750	405	1430	780	1420	750	2056	1092	2833	1470
2200	785	424	1498	817	1487	786	2154	1144	2968	1540
2300	821	443	1566	854	1555	822	2252	1196	3103	1610
2400	857	463	1634	892	1622	858	2350	1248	3238	1680
2500	893	482	1703	929	1690	893	2448	1300	3373	1750
2600	928	501	1771	966	1758	929	2545	1352	3507	1820
2700	964	521	1839	1003	1825	965	2643	1404	3642	1890
2800	1000	540	1907	1040	1893	1000	2741	1456	3777	1960
2900	1035	559	1975	1077	1960	1036	2839	1508	3912	2030
3000	1071	578	2043	1115	2028	1072	2937	1560	4047	2100

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 433mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.21		1.20		1.25		1.25		1.29	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	223	119	397	215	405	213	567	299	778	402
600	267	143	476	258	485	256	680	358	933	482
700	312	167	556	301	566	299	793	418	1089	562
800	356	191	635	343	647	341	906	478	1244	643
900	401	215	715	386	728	384	1020	538	1400	723
1000	445	239	794	429	809	427	1133	597	1555	803
1100	490	263	873	472	890	470	1246	657	1711	884
1200	534	286	953	515	971	512	1360	717	1866	964
1300	579	310	1032	558	1052	555	1473	777	2022	1044
1400	623	334	1112	601	1133	598	1586	836	2177	1125
1500	668	358	1191	644	1214	640	1700	896	2333	1205
1600	712	382	1270	687	1294	683	1813	956	2488	1285
1700	757	406	1350	730	1375	726	1926	1016	2644	1366
1800	801	430	1429	773	1456	768	2039	1075	2799	1446
1900	846	453	1509	816	1537	811	2153	1135	2955	1526
2000	890	477	1588	859	1618	854	2266	1195	3110	1607
2100	935	501	1667	902	1699	896	2379	1255	3266	1687
2200	979	525	1747	945	1780	939	2493	1314	3421	1767
2300	1024	549	1826	987	1861	982	2606	1374	3577	1848
2400	1068	573	1906	1030	1942	1024	2719	1434	3732	1928
2500	1113	597	1985	1073	2023	1067	2833	1494	3888	2008
2600	1157	620	2064	1116	2103	1110	2946	1553	4043	2088
2700	1202	644	2144	1159	2184	1153	3059	1613	4199	2169
2800	1246	668	2223	1202	2265	1195	3172	1673	4354	2249
2900	1291	692	2303	1245	2346	1238	3286	1733	4510	2329
3000	1335	716	2382	1288	2427	1281	3399	1792	4665	2410

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 505mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.23		1.22		1.25		1.26		1.30	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	264	140	451	241	472	248	640	335	875	450
600	316	168	541	290	566	298	768	402	1049	540
700	369	196	631	338	660	348	896	469	1224	630
800	422	225	721	386	754	397	1024	536	1399	720
900	474	253	811	435	849	447	1152	603	1574	810
1000	527	281	901	483	943	497	1280	670	1749	900
1100	580	309	991	531	1037	546	1408	737	1924	990
1200	632	337	1081	580	1132	596	1536	804	2099	1080
1300	685	365	1171	628	1226	646	1664	871	2274	1170
1400	738	393	1261	676	1320	695	1792	938	2449	1260
1500	791	421	1352	724	1415	745	1920	1005	2624	1349
1600	843	449	1442	773	1509	795	2048	1073	2798	1439
1700	896	477	1532	821	1603	844	2176	1140	2973	1529
1800	949	505	1622	869	1697	894	2304	1207	3148	1619
1900	1001	533	1712	918	1792	944	2432	1274	3323	1709
2000	1054	561	1802	966	1886	993	2560	1341	3498	1799
2100	1107	589	1892	1014	1980	1043	2688	1408	3673	1889
2200	1159	617	1982	1062	2075	1093	2816	1475	3848	1979
2300	1212	645	2072	1111	2169	1142	2944	1542	4023	2069
2400	1265	674	2162	1159	2263	1192	3072	1609	4198	2159
2500	1318	702	2253	1207	2358	1242	3200	1676	4373	2249
2600	1370	730	2343	1256	2452	1291	3328	1743	4547	2339
2700	1423	758	2433	1304	2546	1341	3456	1810	4722	2429
2800	1476	786	2523	1352	2640	1391	3584	1877	4897	2519
2900	1528	814	2613	1401	2735	1440	3712	1944	5072	2609
3000	1581	842	2703	1449	2829	1490	3840	2011	5247	2699

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 578mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.24		1.23		1.25		1.28		1.30	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	305	161	503	267	540	284	712	370	969	496
600	365	193	604	321	648	341	854	444	1163	596
700	426	225	704	374	756	397	996	518	1357	695
800	487	258	805	428	864	454	1138	592	1550	794
900	548	290	905	481	972	511	1281	666	1744	893
1000	609	322	1006	534	1080	568	1423	740	1938	993
1100	670	354	1107	588	1188	625	1565	814	2132	1092
1200	731	386	1207	641	1296	681	1708	888	2326	1191
1300	792	419	1308	695	1404	738	1850	962	2519	1290
1400	853	451	1408	748	1512	795	1992	1036	2713	1390
1500	914	483	1509	802	1620	852	2135	1110	2907	1489
1600	974	515	1610	855	1728	908	2277	1184	3101	1588
1700	1035	547	1710	909	1836	965	2419	1258	3295	1687
1800	1096	580	1811	962	1944	1022	2561	1332	3488	1787
1900	1157	612	1911	1015	2052	1079	2704	1406	3682	1886
2000	1218	644	2012	1069	2160	1136	2846	1480	3876	1985
2100	1279	676	2113	1122	2268	1192	2988	1554	4070	2084
2200	1340	708	2213	1176	2376	1249	3131	1628	4264	2184
2300	1401	741	2314	1229	2484	1306	3273	1702	4457	2283
2400	1462	773	2414	1283	2592	1363	3415	1776	4651	2382
2500	1523	805	2515	1336	2700	1419	3558	1850	4845	2482
2600	1583	837	2616	1390	2808	1476	3700	1924	5039	2581
2700	1644	869	2716	1443	2916	1533	3842	1998	5233	2680
2800	1705	902	2817	1496	3024	1590	3984	2072	5426	2779
2900	1766	934	2917	1550	3132	1647	4127	2146	5620	2879
3000	1827	966	3018	1603	3240	1703	4269	2220	5814	2978

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 650mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.26		1.25		1.26		1.29		1.31	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	345	181	554	291	609	319	780	403	1060	540
600	413	217	664	350	730	383	936	483	1271	648
700	482	253	775	408	852	447	1092	564	1483	757
800	551	289	886	466	974	511	1248	644	1695	865
900	620	326	996	525	1095	575	1404	725	1907	973
1000	689	362	1107	583	1217	639	1560	806	2119	1081
1100	758	398	1218	641	1339	703	1716	886	2331	1189
1200	827	434	1328	700	1460	766	1872	967	2543	1297
1300	896	470	1439	758	1582	830	2028	1047	2755	1405
1400	965	507	1550	816	1704	894	2184	1128	2967	1513
1500	1034	543	1661	874	1826	958	2340	1208	3179	1621
1600	1102	579	1771	933	1947	1022	2496	1289	3390	1729
1700	1171	615	1882	991	2069	1086	2652	1370	3602	1837
1800	1240	651	1993	1049	2191	1150	2808	1450	3814	1945
1900	1309	687	2103	1108	2312	1213	2964	1531	4026	2053
2000	1378	724	2214	1166	2434	1277	3120	1611	4238	2161
2100	1447	760	2325	1224	2556	1341	3276	1692	4450	2270
2200	1516	796	2435	1283	2677	1405	3432	1772	4662	2378
2300	1585	832	2546	1341	2799	1469	3588	1853	4874	2486
2400	1654	868	2657	1399	2921	1533	3744	1933	5086	2594
2500	1723	905	2768	1457	3043	1597	3900	2014	5298	2702
2600	1791	941	2878	1516	3164	1661	4056	2095	5509	2810
2700	1860	977	2989	1574	3286	1724	4212	2175	5721	2918
2800	1929	1013	3100	1632	3408	1788	4368	2256	5933	3026
2900	1998	1049	3210	1691	3529	1852	4524	2336	6145	3134
3000	2067	1085	3321	1749	3651	1916	4680	2417	6357	3242

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 723mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.25		1.26		1.27		1.30		1.31	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	384	202	603	316	679	355	848	435	1148	586
600	461	243	724	380	815	426	1018	522	1378	703
700	538	283	844	443	951	497	1187	609	1607	820
800	614	324	965	506	1086	568	1357	696	1837	937
900	691	364	1085	569	1222	639	1526	783	2066	1054
1000	768	405	1206	633	1358	710	1696	870	2296	1172
1100	845	445	1327	696	1494	781	1866	957	2526	1289
1200	922	486	1447	759	1630	851	2035	1044	2755	1406
1300	998	526	1568	823	1765	922	2205	1131	2985	1523
1400	1075	566	1688	886	1901	993	2374	1218	3214	1640
1500	1152	607	1809	949	2037	1064	2544	1305	3444	1757
1600	1229	647	1930	1012	2173	1135	2714	1392	3674	1875
1700	1306	688	2050	1076	2309	1206	2883	1479	3903	1992
1800	1382	728	2171	1139	2444	1277	3053	1566	4133	2109
1900	1459	769	2291	1202	2580	1348	3222	1652	4362	2226
2000	1536	809	2412	1266	2716	1419	3392	1739	4592	2343
2100	1613	850	2533	1329	2852	1490	3562	1826	4822	2460
2200	1690	890	2653	1392	2988	1561	3731	1913	5051	2578
2300	1766	931	2774	1455	3123	1632	3901	2000	5281	2695
2400	1843	971	2894	1519	3259	1703	4070	2087	5510	2812
2500	1920	1012	3015	1582	3395	1774	4240	2174	5740	2929
2600	1997	1052	3136	1645	3531	1845	4410	2261	5970	3046
2700	2074	1092	3256	1708	3667	1916	4579	2348	6199	3163
2800	2150	1133	3377	1772	3802	1987	4749	2435	6429	3281
2900	2227	1173	3497	1835	3938	2058	4918	2522	6658	3398
3000	2304	1214	3618	1898	4074	2129	5088	2609	6888	3515

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 795mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.24		1.26		1.27		1.32		1.31	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	422	223	651	340	750	390	913	465	1233	630
600	506	267	781	408	900	468	1096	558	1480	755
700	590	312	911	476	1050	546	1278	651	1726	881
800	674	356	1042	545	1200	624	1461	744	1973	1007
900	759	401	1172	613	1350	702	1643	837	2219	1133
1000	843	446	1302	681	1500	780	1826	930	2466	1259
1100	927	490	1432	749	1650	858	2009	1023	2713	1385
1200	1012	535	1562	817	1800	936	2191	1116	2959	1511
1300	1096	579	1693	885	1950	1014	2374	1209	3206	1637
1400	1180	624	1823	953	2100	1093	2556	1302	3452	1763
1500	1265	668	1953	1021	2250	1171	2739	1395	3699	1889
1600	1349	713	2083	1089	2400	1249	2922	1488	3946	2015
1700	1433	757	2213	1157	2550	1327	3104	1581	4192	2140
1800	1517	802	2344	1225	2700	1405	3287	1674	4439	2266
1900	1602	847	2474	1293	2850	1483	3469	1767	4685	2392
2000	1686	891	2604	1361	3000	1561	3652	1860	4932	2518
2100	1770	936	2734	1429	3150	1639	3835	1953	5179	2644
2200	1855	980	2864	1497	3300	1717	4017	2046	5425	2770
2300	1939	1025	2995	1566	3450	1795	4200	2139	5672	2896
2400	2023	1069	3125	1634	3600	1873	4382	2232	5918	3022
2500	2108	1114	3255	1702	3750	1951	4565	2325	6165	3148
2600	2192	1158	3385	1770	3900	2029	4748	2418	6412	3274
2700	2276	1203	3515	1838	4050	2107	4930	2511	6658	3400
2800	2360	1248	3646	1906	4200	2185	5113	2604	6905	3525
2900	2445	1292	3776	1974	4350	2263	5295	2697	7151	3651
3000	2529	1337	3906	2042	4500	2341	5478	2790	7398	3777

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

'n' = average exponent value.

Heat Outputs

Precision Horizontal models - 868mm high



Style	H10		H11 (Full Fin)		H20		H21 (Full Fin)		H22S (Full Fin)	
Depth (mm) (excl. brackets)	69		69		78		78		118	
'n'	1.24		1.27		1.28		1.33		1.31	
Length (mm)	Output (Watts)									
	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
500	459	243	698	364	823	426	978	494	1317	673
600	550	292	838	436	988	512	1173	593	1580	807
700	642	340	977	509	1152	597	1369	692	1844	942
800	734	389	1117	582	1317	682	1564	791	2107	1077
900	825	438	1256	654	1481	767	1760	890	2371	1211
1000	917	486	1396	727	1646	853	1955	989	2634	1346
1100	1009	535	1536	800	1811	938	2151	1088	2897	1480
1200	1100	583	1675	873	1975	1023	2346	1186	3161	1615
1300	1192	632	1815	945	2140	1108	2542	1285	3424	1749
1400	1284	681	1954	1018	2304	1194	2737	1384	3688	1884
1500	1376	729	2094	1091	2469	1279	2933	1483	3951	2018
1600	1467	778	2234	1163	2634	1364	3128	1582	4214	2153
1700	1559	827	2373	1236	2798	1449	3324	1681	4478	2288
1800	1651	875	2513	1309	2963	1535	3519	1780	4741	2422
1900	1742	924	2652	1381	3127	1620	3715	1878	5005	2557
2000	1834	972	2792	1454	3292	1705	3910	1977	5268	2691
2100	1926	1021	2932	1527	3457	1791	4106	2076	5531	2826
2200	2017	1070	3071	1600	3621	1876	4301	2175	5795	2960
2300	2109	1118	3211	1672	3786	1961	4497	2274	6058	3095
2400	2201	1167	3350	1745	3950	2046	4692	2373	6322	3230
2500	2293	1216	3490	1818	4115	2132	4888	2472	6585	3364
2600	2384	1264	3630	1890	4280	2217	5083	2571	6848	3499
2700	2476	1313	3769	1963	4444	2302	5279	2669	7112	3633
2800	2568	1361	3909	2036	4609	2387	5474	2768	7375	3768
2900	2659	1410	4048	2109	4773	2473	5670	2867	7639	3902
3000	2751	1459	4188	2181	4938	2558	5865	2966	7902	4037

NOTE:

All outputs are in accordance with BS EN442 certification.

Outputs for reduced fin radiator can be found on page 19.

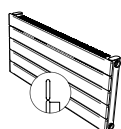
'n' = average exponent value.

Heat Outputs Per Metre

Precision Horizontal models with reduced fin*

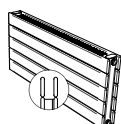
- Reduced fins offer the advantage of high output without fins being fully visible
- Reduced fins are always reduced from the top - never the bottom
- A heavy duty grille is available for reduced fin Precision radiators only (see below)

H11



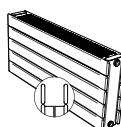
Panel Height (mm)*	288	360	433	505	578	650	723	795	868
Fin Height (mm)	215	288	360	433	505	578	650	723	795
Output at $\Delta T50$ (W)	502	632	723	817	918	1024	1138	1258	1389

H21



Panel Height (mm)*	288	360	433	505	578	650	723	795	868
Fin Height (mm)	215	288	360	433	505	578	650	723	795
Output at $\Delta T50$ (W)	804	960	1110	1253	1392	1525	1655	1780	1903

H22S



Panel Height (mm)*	288	360	433	505	578	650	723	795	868
Fin Height (mm)	215	288	360	433	505	578	650	723	795
Output at $\Delta T50$ (W)	1063	1264	1455	1634	1807	1969	2126	2274	2418

TOP AND SIDE GRILLES

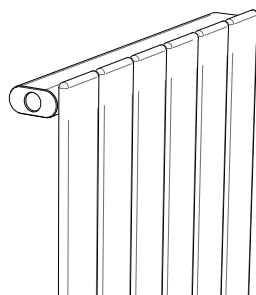
Top/side grilles are available at an extra cost. They are only suitable for reduced fin radiators for horizontal models and may be fitted to all vertical models. Please specify at the time of quotation.



* Reduced fin option is not available on 143mm & 215 heights

Heat Outputs

Precision Vertical models - V10



Height (mm)	'n'	Depth (excl. brackets): 68mm																	
		Width (mm)																	
		288		360		433		505		578		650		723		795		868	
		ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}	ΔT_{50}	ΔT_{30}
600	1.26	248	130	296	155	345	180	393	205	442	231	490	256	538	281	586	307	634	332
700	1.29	277	144	332	172	388	201	443	229	498	258	553	286	608	314	663	342	722	372
800	1.31	309	159	372	191	435	223	498	255	561	287	623	318	687	350	749	381	823	418
900	1.32	339	172	408	208	488	248	548	279	618	314	688	350	759	386	829	421	901	458
1000	1.33	371	187	447	225	525	265	602	304	680	344	757	383	835	423	911	462	981	498
1100	1.31	397	204	486	249	575	294	662	338	749	382	833	425	918	468	1001	510	1101	560
1200	1.32	429	221	526	268	623	317	716	364	810	412	902	458	993	503	1083	548	1173	601
1300	1.31	462	236	566	289	670	342	771	394	872	445	970	494	1069	545	1165	593	1278	650
1400	1.31	494	252	606	309	717	366	825	421	933	476	1038	529	1144	583	1247	635	1366	695
1500	1.31	527	269	646	330	764	390	879	448	994	507	1106	563	1219	621	1329	676	1454	740
1600	1.32	559	285	686	350	811	413	933	475	1056	538	1175	598	1294	659	1411	718	1541	784
1700	1.32	592	301	725	369	858	437	988	503	1117	569	1243	633	1370	697	1493	760	1629	829
1800	1.32	625	318	765	389	906	461	1042	530	1178	599	1311	667	1445	735	1576	802	1716	873
1900	1.32	657	335	805	410	953	485	1096	558	1240	632	1380	703	1521	775	1658	844	1808	921
2000	1.32	690	350	845	429	1000	508	1151	585	1302	662	1449	737	1596	812	1740	886	1890	962
2100	1.31	723	369	886	452	1048	535	1206	615	1363	695	1517	774	1672	852	1823	929	1991	1015
2200	1.31	755	386	926	473	1096	560	1260	644	1426	728	1586	809	1748	892	1906	972	2084	1062
2300	1.31	788	403	966	494	1143	585	1315	672	1488	760	1656	846	1824	931	1989	1015	2153	1098
2400	1.31	822	421	1007	516	1191	610	1371	702	1550	793	1725	882	1901	971	2073	1058	2271	1159
2500	1.31	855	439	1048	537	1240	635	1426	730	1613	826	1795	918	1978	1011	2157	1102	2365	1207
2600	1.30	888	456	1088	559	1288	661	1482	760	1676	859	1865	955	2055	1051	2241	1145	2460	1256
2700	1.30	922	474	1130	581	1337	687	1538	790	1739	892	1936	992	2133	1092	2326	1189	2555	1305
2800	1.30	955	492	1171	603	1385	712	1594	819	1802	925	2006	1028	2210	1132	2410	1233	2650	1354
2900	1.30	989	510	1212	624	1434	738	1650	848	1866	958	2077	1065	2288	1172	2495	1277	2746	1404
3000	1.30	1023	527	1254	647	1483	764	1707	878	1930	992	2148	1103	2367	1214	2581	1322	2837	1452

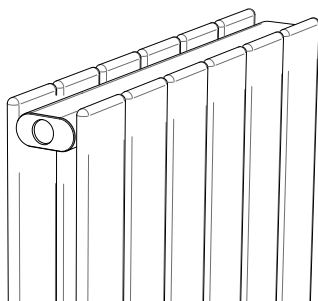
NOTE:

All outputs are in accordance with BS EN442 certification.

'n' = average exponent value.

Heat Outputs

Precision Vertical models - V20



Height (mm)	'n'	Depth (excl. brackets): 77mm																	
		Width (mm)																	
		288		360		433		505		578		650		723		795		868	
		$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$	$\Delta T50$	$\Delta T30$
600	1.33	360	184	441	225	521	265	599	304	677	343	753	380	829	418	903	454	978	490
700	1.32	418	216	510	262	602	398	691	353	779	397	866	439	952	481	1036	521	1121	562
800	1.31	465	242	569	295	672	347	773	397	873	446	971	494	1070	542	1166	588	1263	633
900	1.32	519	262	631	319	743	376	854	433	966	491	1079	549	1196	610	1316	673	1441	738
1000	1.33	567	277	694	342	820	408	943	473	1066	539	1185	604	1305	671	1423	738	1541	805
1100	1.32	617	317	756	388	893	457	1027	524	1161	591	1291	655	1422	720	1549	782	1677	844
1200	1.32	667	344	817	420	966	495	1110	567	1255	639	1396	709	1537	778	1675	846	1815	914
1300	1.33	717	366	878	449	1038	528	1180	599	1334	677	1483	751	1634	826	1820	919	1949	983
1400	1.33	767	390	939	477	1110	563	1276	647	1442	730	1604	812	1766	893	1925	972	2084	1052
1500	1.33	816	413	999	505	1181	597	1358	687	1535	776	1707	863	1880	950	2048	1035	2218	1121
1600	1.33	865	436	1059	534	1252	631	1440	726	1627	821	1810	914	1993	1007	2172	1098	2352	1190
1700	1.34	915	459	1119	562	1323	665	1521	765	1719	866	1912	964	2106	1064	2295	1161	2485	1258
1800	1.34	963	481	1179	590	1394	699	1603	805	1811	911	2014	1015	2218	1120	2418	1223	2618	1327
1900	1.34	1094	548	1239	618	1465	735	1684	846	1903	957	2116	1065	2331	1174	2540	1281	2750	1389
2000	1.35	1061	525	1299	645	1535	765	1765	882	1994	1000	2218	1116	2443	1233	2662	1348	2883	1464
2100	1.34	1109	558	1358	683	1605	807	1845	927	2086	1047	2320	1164	2555	1281	2784	1395	3015	1510
2200	1.35	1158	584	1417	714	1676	843	1926	968	2177	1092	2421	1213	2666	1334	2906	1452	3147	1570
2300	1.35	1206	610	1477	745	1746	879	2007	1009	2268	1137	2523	1262	2778	1387	3028	1509	3278	1630
2400	1.35	1255	636	1536	777	1816	915	2087	1049	2359	1182	2624	1311	2889	1439	3149	1564	3410	1689
2500	1.35	1303	662	1595	808	1886	952	2168	1090	2450	1227	2725	1360	3001	1492	3271	1620	3541	1747
2600	1.35	1352	689	1655	840	1956	988	2248	1130	2541	1285	2826	1408	3112	1543	3392	1674	3673	1808
2700	1.35	1400	716	1714	871	2026	1024	2329	1171	2632	1316	2927	1456	3224	1595	3513	1729	3804	1862
2800	1.35	1448	742	1773	903	2096	1061	2409	1212	2723	1361	3028	1504	3335	1646	3635	1784	3936	1919
2900	1.34	1497	769	1832	925	2166	1091	2490	1251	2814	1411	3130	1566	3446	1721	3756	1871	4067	2022
3000	1.35	1545	796	1891	967	2236	1134	2570	1293	2905	1450	3231	1601	3558	1749	3878	1891	4199	2032

NOTE:

All outputs are in accordance with BS EN442 certification.

'n' = average exponent value.

Weights and Water Contents

Precision models

HORIZONTAL MODELS

Height (mm)	Tubes	Weight/m Length (kg)								Water Content (ltr/m)	
		H10	H11		H20	H21		H22S		H10/H11	H20/H21/H22S
			Full Fin	Reduced Fin		Full Fin	Reduced Fin	Full Fin	Reduced Fin		
143	2	4.44	5.71	-	8.09	9.75	-	11.42	-	1.16	2.32
215	3	6.65	8.57	-	12.13	14.63	-	17.13	-	1.74	3.48
288	4	8.87	11.42	10.59	16.18	19.51	16.65	22.84	21.17	2.32	4.64
360	5	11.09	14.28	13.44	20.22	24.38	21.53	28.55	26.88	2.90	5.80
433	6	13.31	17.13	16.30	24.26	29.26	26.41	34.26	32.59	3.48	6.96
505	7	15.52	19.99	19.15	28.31	34.14	31.28	39.97	38.30	4.06	8.12
578	8	17.74	22.84	22.01	32.35	39.02	36.16	45.68	44.01	4.64	9.28
650	9	19.96	25.70	24.86	36.39	43.89	41.04	51.39	49.72	5.22	10.44
723	10	22.18	28.55	27.72	40.44	48.77	45.91	57.10	55.43	5.80	11.60
795	11	24.39	31.41	30.57	44.48	53.65	50.79	62.81	61.14	6.38	12.76
868	12	26.61	34.26	33.43	48.53	58.52	55.67	68.52	66.85	6.96	13.92

VERTICAL MODELS

V10

Height (mm)	Dry Weight (kg/tube)	Water Content (ltr/tube)	Surface area (sqm/tube)
600	1.24	0.33	0.09
700	1.43	0.38	0.12
800	1.63	0.44	0.13
900	1.84	0.49	0.15
1000	2.04	0.55	0.17
1100	2.25	0.59	0.18
1200	2.56	0.71	0.21
1300	2.75	0.75	0.22
1400	2.94	0.78	0.24
1500	3.13	0.82	0.25
1600	3.32	0.85	0.27
1700	3.51	0.89	0.28
1800	3.70	0.93	0.30
1900	3.89	1.01	0.31
2000	4.08	1.09	0.33
2100	4.26	1.18	0.34
2200	4.45	1.26	0.36
2300	4.64	1.34	0.37
2400	4.83	1.43	0.39
2500	5.01	1.51	0.40
2600	5.20	1.59	0.42
2700	5.39	1.67	0.43
2800	5.58	1.76	0.45
2900	5.77	1.84	0.47
3000	5.95	1.93	0.48

V20

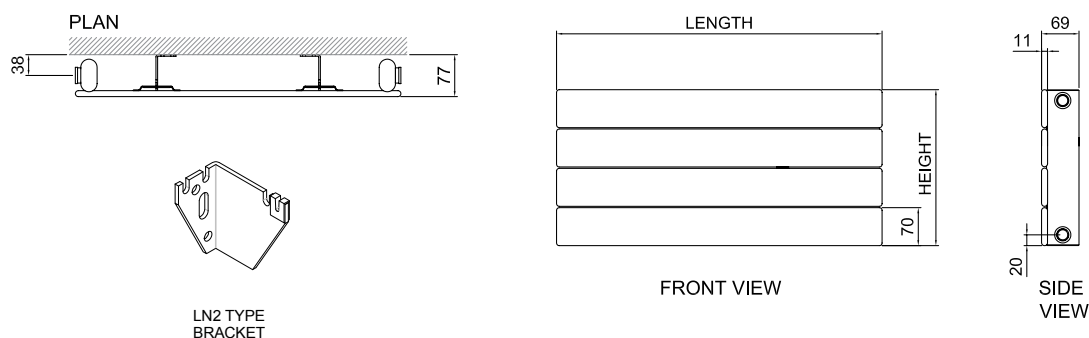
Height (mm)	Dry Weight (kg/tube)	Water Content (ltr/tube)	Surface area (sqm/tube)
600	2.33	0.73	0.19
700	2.72	0.85	0.22
800	3.11	0.97	0.25
900	3.51	1.09	0.28
1000	3.89	1.22	0.32
1100	4.28	1.34	0.35
1200	4.83	1.46	0.39
1300	5.21	1.57	0.42
1400	5.55	1.72	0.45
1500	5.94	1.81	0.48
1600	6.29	1.96	0.51
1700	6.67	2.06	0.54
1800	7.03	2.20	0.57
1900	7.40	2.31	0.60
2000	7.78	2.44	0.63
2100	7.96	2.50	0.66
2200	8.14	2.55	0.69
2300	8.34	2.62	0.72
2400	8.54	2.68	0.75
2500	9.30	2.93	0.79
2600	10.06	3.17	0.82
2700	10.44	3.29	0.85
2800	10.82	3.41	0.88
2900	11.20	3.53	0.91
3000	11.58	3.65	0.94

Dimensional Information

Precision Horizontal models

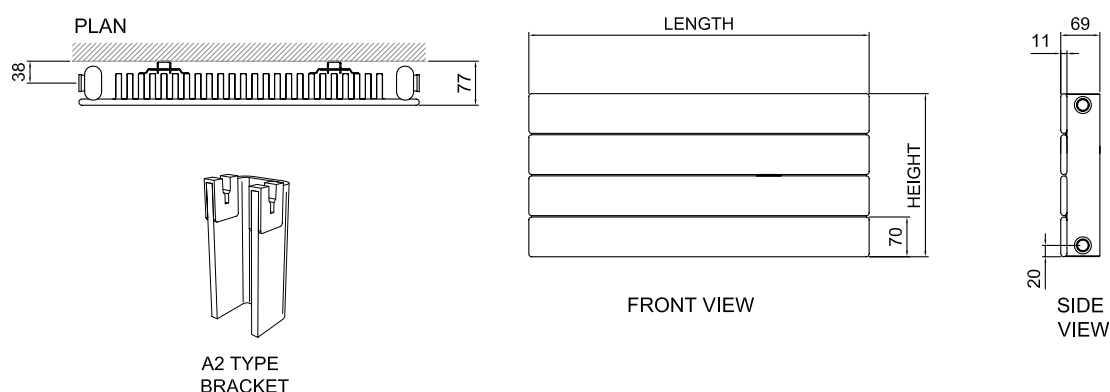
H10

Standard model shown with 1/2" (15mm) BDAC connections



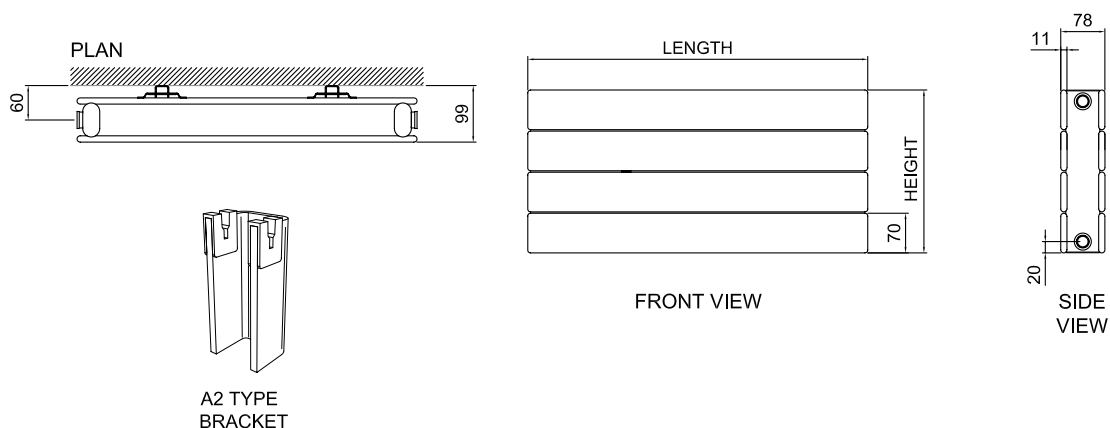
H11

Standard model shown with 1/2" (15mm) BDAC connections



H20

Standard model shown with 1/2" (15mm) BDAC connections



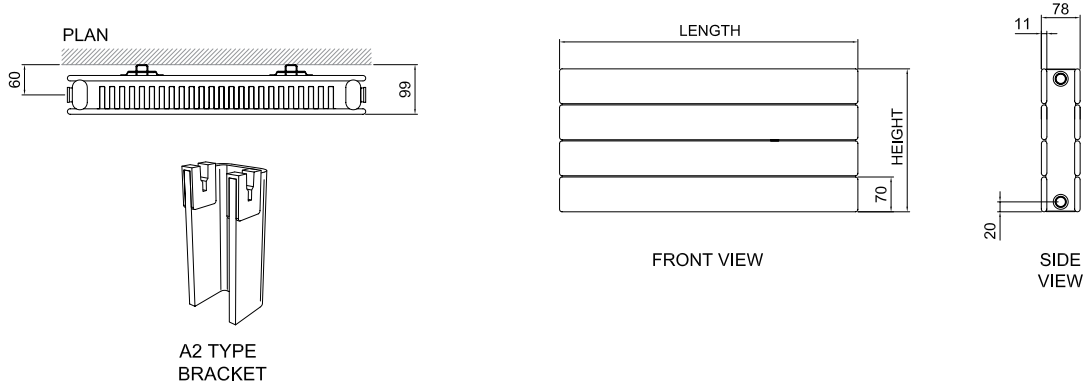
For connection options, see pages 31-33

Dimensional Information

Precision Horizontal models

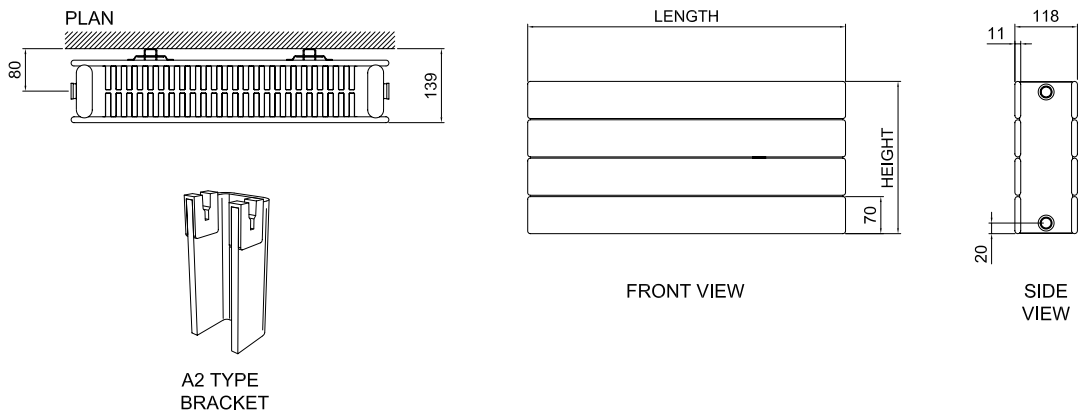
H21

Standard model shown with 1/2" (15mm) BDAC connections



H22S

Standard model shown with 1/2" (15mm) BDAC connections

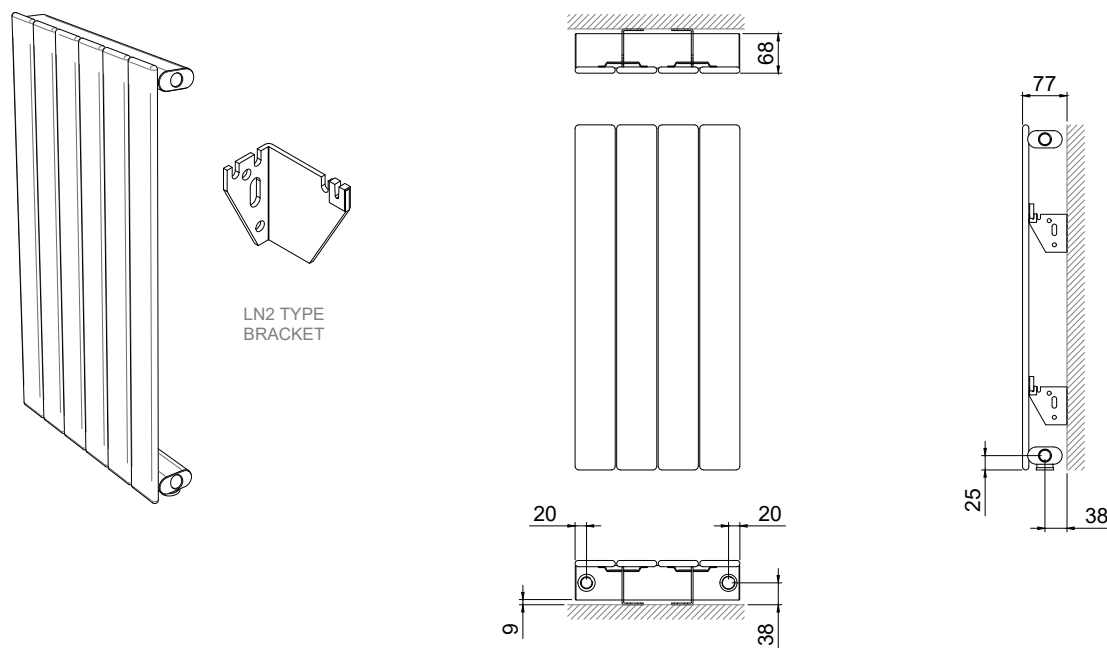


Dimensional Information

Precision Vertical models

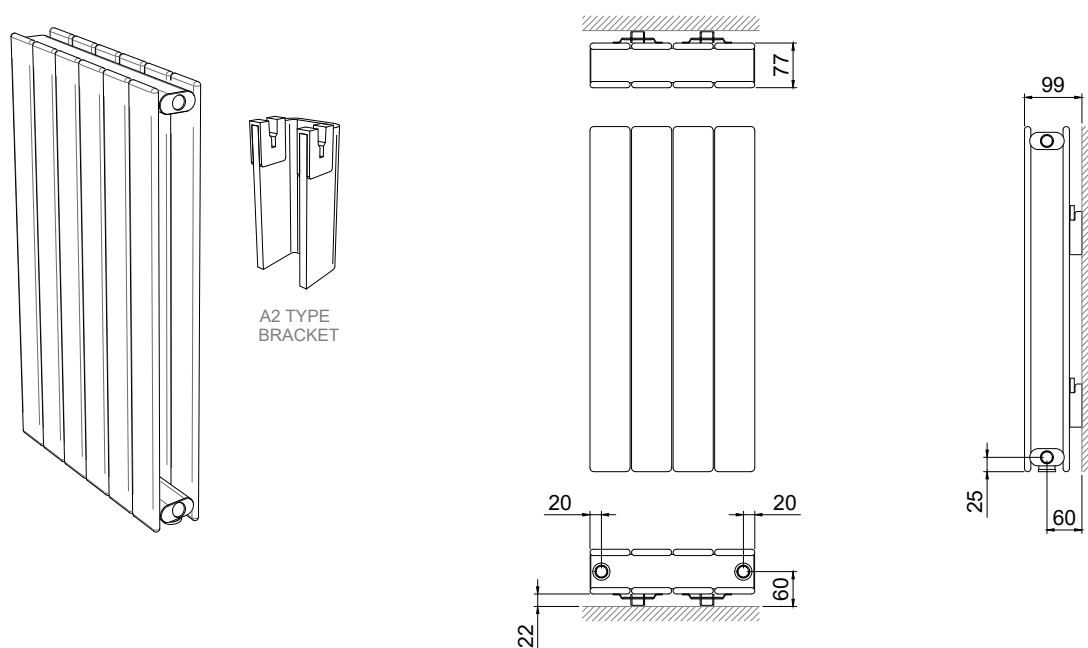
V10

Standard model shown with EFABCD connections



V20

Standard model shown with EFABCD connections

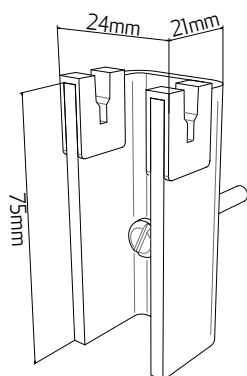


Mounting Details

Precision models - Connection & bracket dimensions

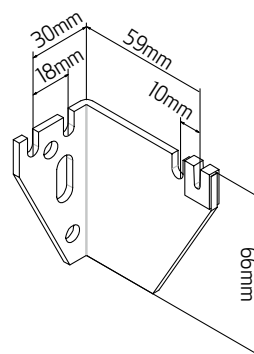
Type	H10 (mm)	H11 (mm)	H20 (mm)	H21 (mm)	H22S (mm)	V10 (mm)	V20 (mm)
Radiator depth (ex. Wall Bracket)	69	69	78	78	118	68	77
Overall Radiator Depth Inc. Brackets	77	77	99	99	139	77	99
Bracket Depth	59	21	21	21	21	59	21
Wall to Centre of Connection	38	38	60	60	80	38	60
Front of Radiator to Centre of Connection	39	39	39	39	59	39	39
Back of Radiator to Wall	8	8	21	21	21	9	22
Bottom of Radiator to Centre of Bottom Connection (BD/DB Connections)	20	20	20	20	20	25	25
Top of Radiator to Centre of Connection (AC/CA Connections)	20	20	20	20	20	25	25
Outside Edge of Radiator to Centre of Connection (EF/FE/GH/HG Connection)	20	20	20	20	20	20	20
Pipe Dimension Centres (V10/V20) (EF/GH Connections)	-	-	-	-	-	-40 (Overall Length)	-40 (Overall Length)

WALL BRACKETS



A2 Type bracket
Horizontal: H11, H20, H21 & H22S
Vertical: V20

Part Number: DESA2K3



LN2 Type bracket
Horizontal: H10
Vertical: V10

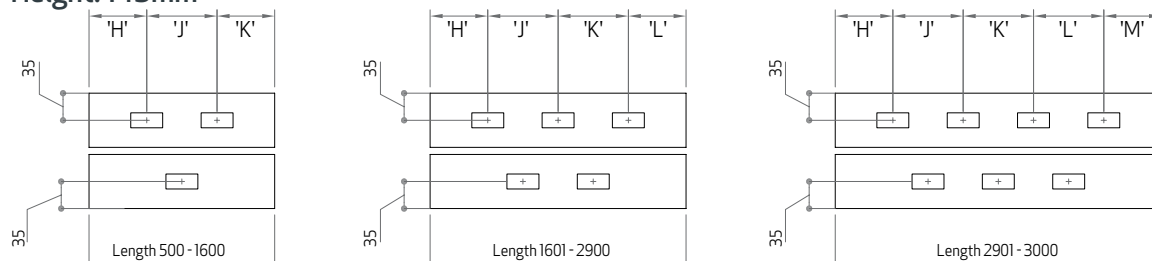
Part Number: DESLN2K2

Mounting Details

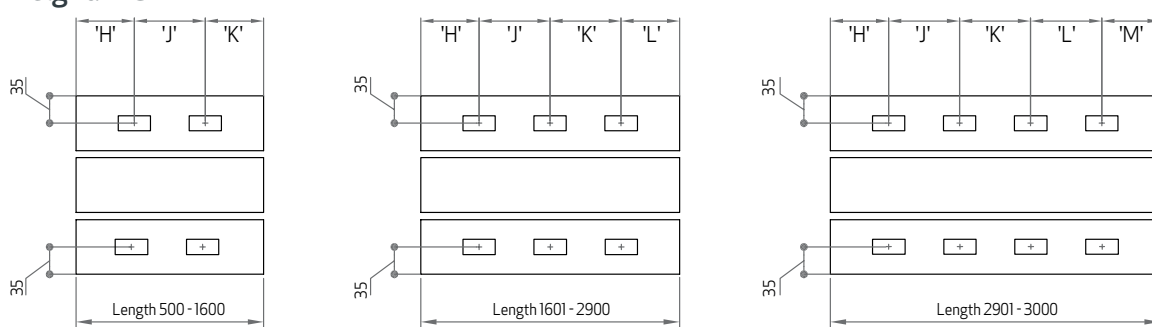
Precision models - Bracket locations

BRACKET LOCATION FOR PRECISION HORIZONTAL MODELS LENGTH 500mm - 3000mm:

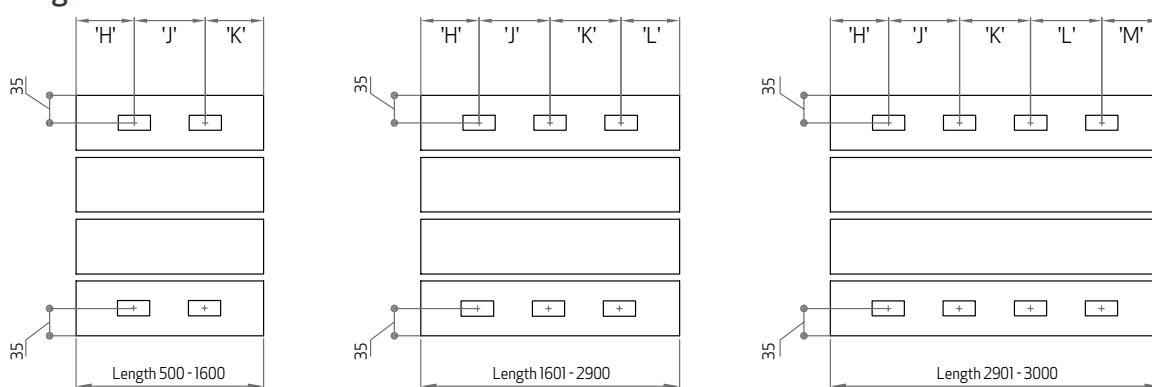
Height: 143mm



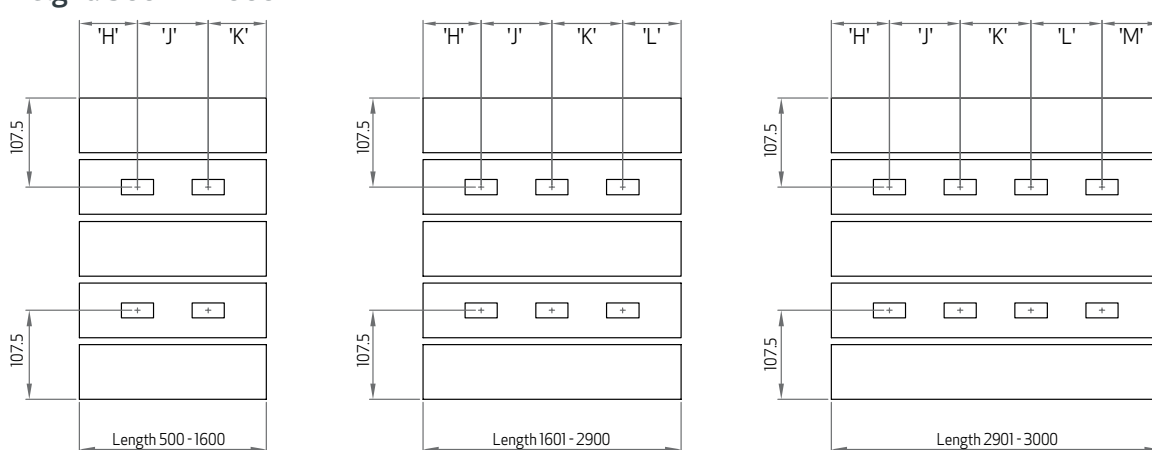
Height: 215mm



Height: 288mm



Height: 360mm - 868mm



Mounting Details

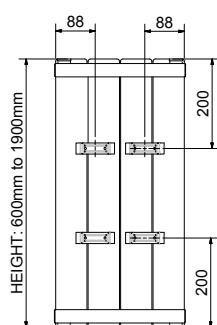
Precision models - Bracket locations

BRACKET LOCATION FOR PRECISION HORIZONTAL MODELS LENGTH 500mm - 3000mm:

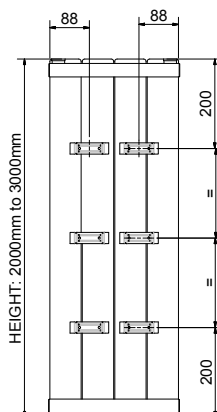
Length (mm)	'H'	'J'	'K'	'L'	'M'
500	140	220	140	-	-
600	150	300	150	-	-
700	150	400	150	-	-
800	140	520	140	-	-
900	150	600	150	-	-
1000	140	720	140	-	-
1100	150	800	150	-	-
1200	150	900	150	-	-
1300	140	1020	140	-	-
1400	150	1100	150	-	-
1500	150	1200	150	-	-
1600	140	1320	140	-	-
1700	150	700	700	150	-
1800	150	720	780	150	-
1900	150	800	800	150	-
2000	150	820	880	150	-
2100	140	900	920	140	-
2200	150	920	980	150	-
2300	150	1000	1000	150	-
2400	140	1060	1060	140	-
2500	150	1100	1100	150	-
2600	150	1120	1180	150	-
2700	140	1200	1220	140	-
2800	150	1220	1280	150	-
2900	140	1300	1320	140	-
3000	150	900	900	900	150

BRACKET LOCATIONS FOR PRECISION VERTICAL MODELS (V10 & V20)

Height: 600mm - 1900mm



Height: 2000mm - 3000mm



Any radiator over 1900mm high will have 3 pairs of mounting supports. These will be positioned 200mm from the top and bottom of the radiator, with the central pair of supports located equidistant in between the top and bottom supports.

Mounting Details

Precision models - Security bracket

Merriott offers a security bracket for horizontal Precision radiators, designed for use in areas where safety is paramount.

The Security bracket is supplied in 3 components:

- i) Top bracket
- ii) Lower bracket
- iii) 'J' Bolt

Part Numbers for H10 models:

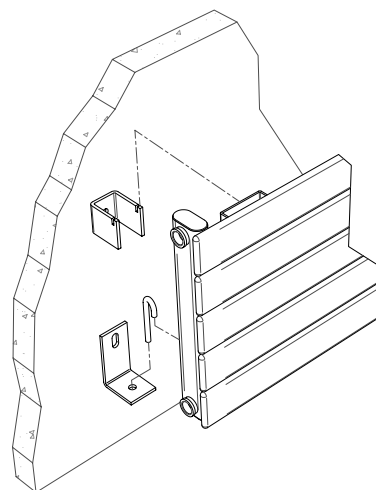
AZ1-HMPSBB1 (BOTTOM BRACKET)

AZ1-HMPSBT1 (TOP BRACKET)

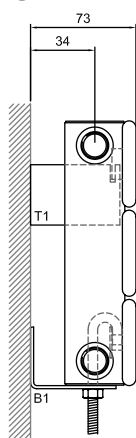
Part Numbers for H11, H20, H21 & H22S models:

AZ1-HMPSBB3 (BOTTOM BRACKET)

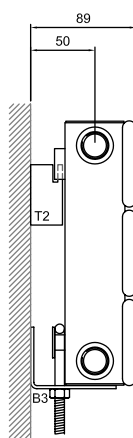
AZ1-HMPSBT2 (TOP BRACKET)



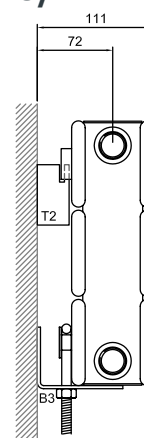
H10



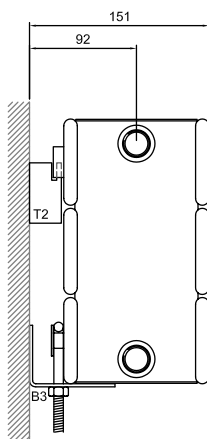
H11



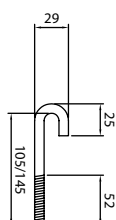
H20/21



H22S



6mm 'J' Bolt



Part Numbers for 'J' Bolt:

AZ1-M6X105JB - for Horizontal Precision radiators up to 288mm high

AZ1-M6X145JB - for Horizontal Precision radiators of 360mm or higher

Mounting Details

Precision models - Floor mounting options

All floor mounting options are manufactured to match the same paint finish as your specified Precision (standard RAL 9016, other RAL colours available on request).

The Precision range offers a variety of floor mounting options depending on your installation. The number of feet required varies depending on the length of the radiator; for radiators up to 1200mm long, 2 feet are required, lengths of 1201mm - 2400mm require 3 feet and those of 2401mm - 3000mm long require 4 feet. Precision radiators mounted on feet cannot be freestanding when the total height including feet exceeds 500mm.

WELDED FEET:

- Available for all Precision radiators
- Pre-fitted (welded to the radiator) at the factory for ease of installation
- Standard foot height is 100mm (options available between 100mm and 250mm in 50mm increments)

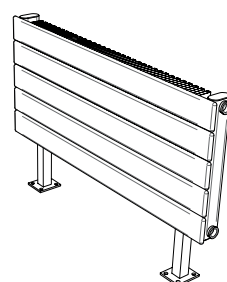
Part Numbers:

100mm high: SUF026-100

150mm high: SUF026-150

200mm high: SUF026-200

250mm high: SUF026-250



BOLT-ON FEET:

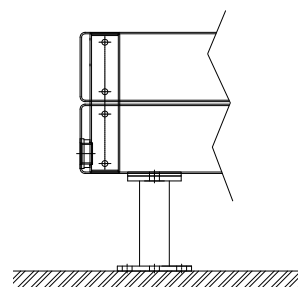
- Available for Precision horizontal radiators only, excluding H10
- Pre-fitted plate (welded to the underside of radiator) at the factory for ease of installation
- Foot requires installation using M8 bolts (2 per foot) for easy maintenance
- Standard foot height is 100mm (other options available from 50mm)

It is recommended that all radiators with an EF connection configuration use a foot height of at least 150mm to allow for valves.

Part Numbers:

Foot: AZI-SUF020100

Top Plate: AZI-SUF019-TP



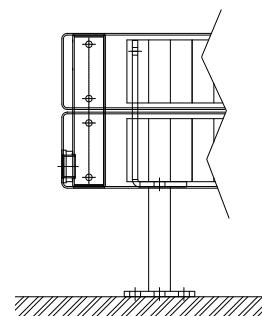
LOOSE FEET:

- Available for horizontal Precision radiators with convactor fins
- Aids wall integrity against the weight of the radiator
- Feet secured to the floor and prongs are fitted between fins for stability
- Standard foot height is 100mm (other options available from 50mm)

Part Numbers:

H11 & H21: AZI-SUF013100

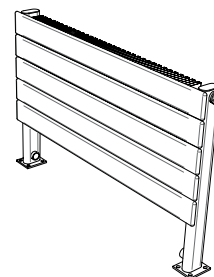
H22S: AZI-SUF014100



EXTENDED HEADER:

- Available for horizontal Precision radiators only
- Ideal for concealing pipe work under raised access floor

For extended header applications, please contact the Merriott Sales Office.



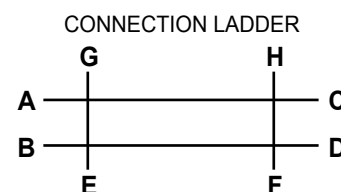
	V10	V20	H10	H20	H11 FF & H11 RF	H21 FF & H21 RF	H22S FF & H22S RF
Welded Feet	No	Yes	No	Yes	No	Yes	Yes
Bolted on Feet	No	Yes	No	Yes	No	Yes	Yes
Loose Feet	No	No	No	No	Yes	Yes	Yes
Extended Header	No	No	Yes	Yes	Yes	Yes	Yes

Connection Options

Precision Horizontal models

CONNECTION VARIATIONS

- A, B, C, D, E, F, G and H are connection positions
- Standard Horizontal radiator configurations are BDAC
- Other connection configurations are available on request



BDAC



DBCA



ADBC



CBDA



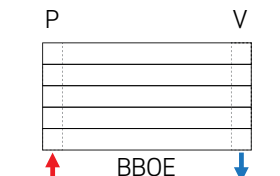
EFAC



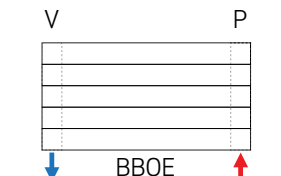
FECA



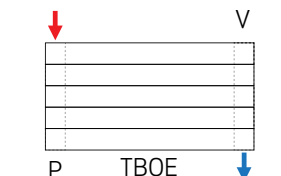
EFGH



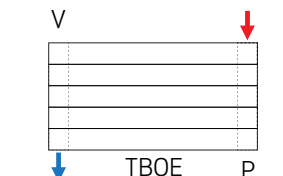
FEHG



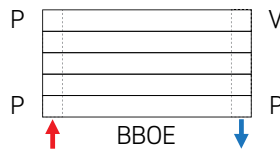
GFEH



HEFG



EFABCD



FECABD



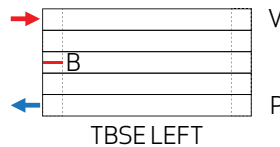
ADBCEF



CBDAEF



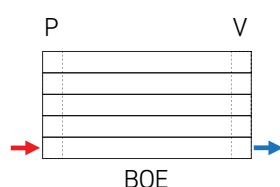
ABDC



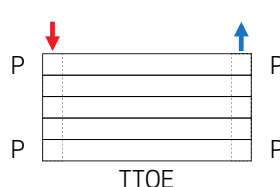
CDBA



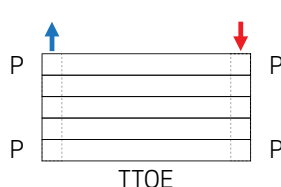
BDGH



GHABCD*



HGABCD*



Key

P = Plug

V = Vent

→ = Flow

← = Return

BOE = Bottom Opposite End

TBSE = Top Bottom Same End

TBOE = Top Bottom Opposite End

TOE = Top Opposite End

BBOE = Bottom Bottom Opposite End

TTOE = Top Top Opposite End

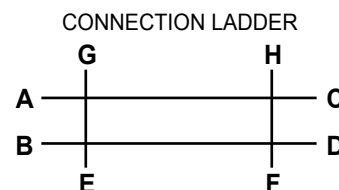
* Dip tube required

Connection Options

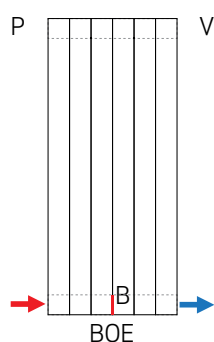
Precision Vertical models

CONNECTION VARIATIONS

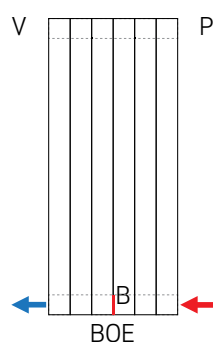
- A, B, C, D, E, F, G and H are connection positions
- Standard Vertical radiator configurations are 6 connections at EFABCD
- Other connection configurations are available on request



BDAC



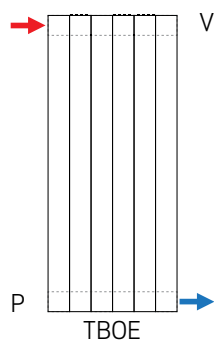
DBCA



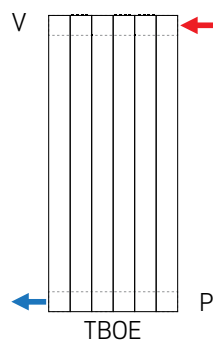
Key

- P = Plug
- V = Vent
- = Flow
- ← = Return
- BOE = Bottom Opposite End
- TBSE = Top Bottom Same End
- TBOE = Top Bottom Opposite End
- TOE = Top Opposite End
- BBOE = Bottom Bottom Opposite End
- TTOE = Top Top Opposite End

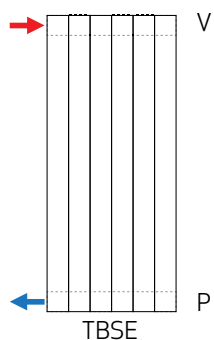
ADBC



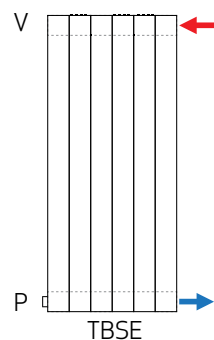
CBDA



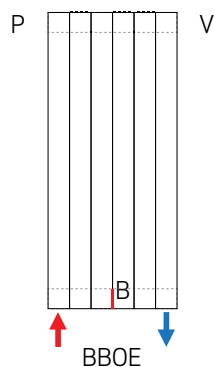
ABDC



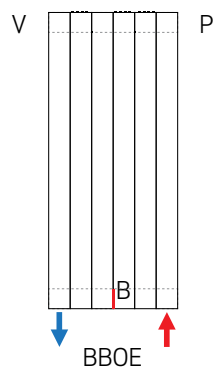
CDBA



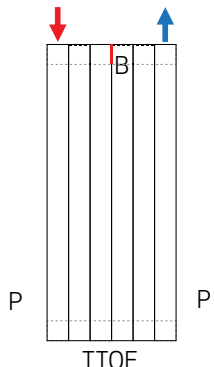
EFAC



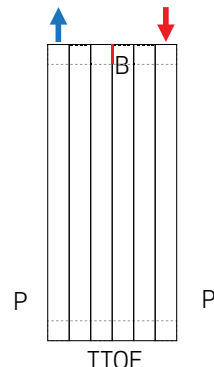
FECA



GHBD



HGBD

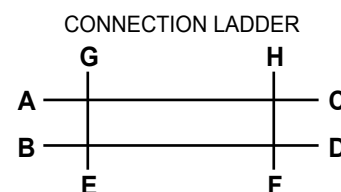


Connection Options

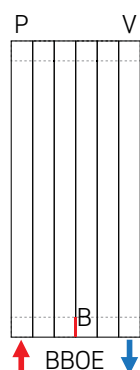
Precision Vertical models

CONNECTION VARIATIONS

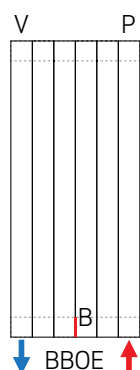
- A, B, C, D, E, F, G and H are connection positions
- Standard Vertical radiator configurations are 6 connections at EFABCD
- Other connection configurations are available on request



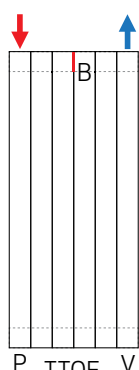
EFGH



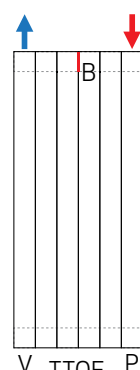
FEHG



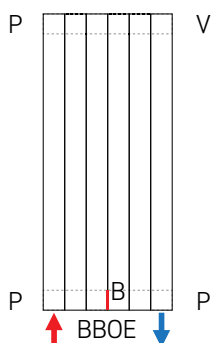
GHEF



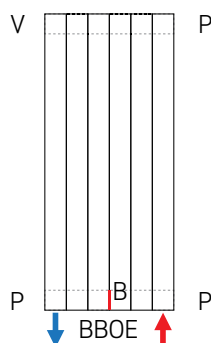
HGFE



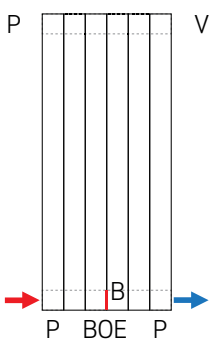
EFABCD



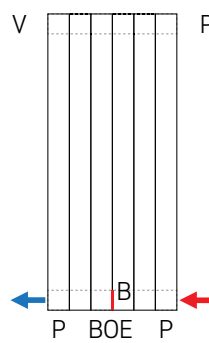
FECABD



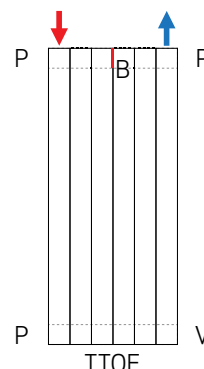
BDACEF



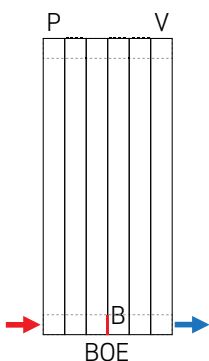
DBCAEF



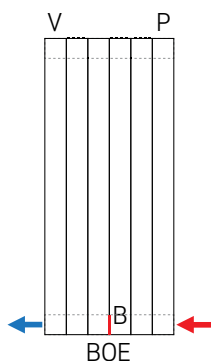
GHBDAC



BDGH



DBHG



Key

P = Plug

V = Vent

→ = Flow

← = Return

BOE = Bottom Opposite End

TBSE = Top Bottom Same End

TBOE = Top Bottom Opposite End

TTOE = Top Opposite End

BBOE = Bottom Bottom Opposite End

TTOE = Top Top Opposite End

Resistance Diagram

Precision models

HOW TO CALCULATE THE RESISTANCE OF A PRECISION RADIATOR AT ΔT 50°C

Radiator type:

H22s (full fin)

Length - 1000mm

Height - 650mm

Output @ ΔT 50 °C = 2119W (flow/return - 75/65 °C)

If the output is not at ΔT 50 °C, please use the correction factor tables on pages 46-47 to get the correct output.

CALCULATE THE FLOW RATE AS FOLLOWS:

m = Flow Rate

Q = Heat Output

c = Specific heat capacity of water (4187 J / KgK)

ΔT = Temp. drop across radiator (10K)

Flow rate (m) = $Q / (c \times \Delta T)$ in l/sec

Therefore

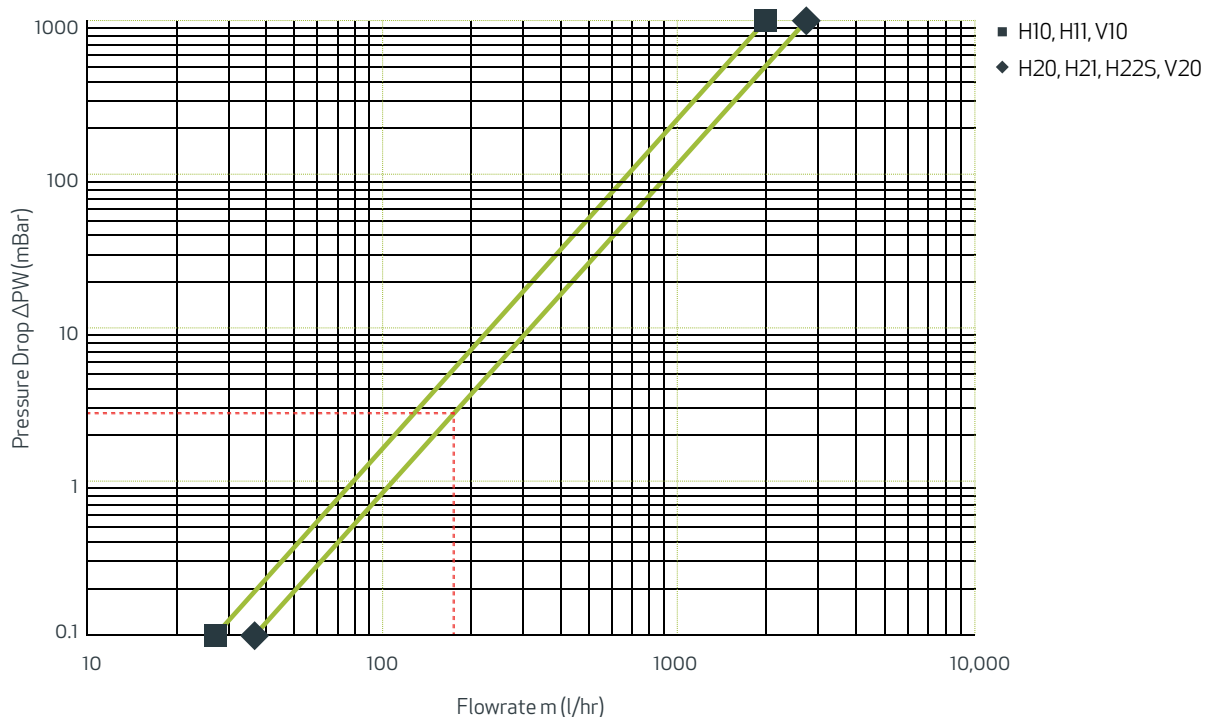
$$m = 2119 / (4187 \times 10)$$

$$m = 0.050609 \text{ (l/s)}$$

x3600 (to convert from l/sec to l/h)

$$m = 182.2 \text{ l/h}$$

Please refer to the resistance diagram which gives a value of approx 2.9m bar for the H22S.





Precision Plus

Elevated performance, expanded possibilities.

The new Precision Plus range redefines flexibility in commercial heating. Building on the trusted performance and clean aesthetics of our original Precision offering, the updated range introduces a significantly extended selection of vertical sizes now available up to 1510mm in length, in 72mm increments. This increased range opens up more opportunities for designers and specifiers to meet challenging project requirements without compromising on output or style.

Still engineered with the same high-quality steel construction and robust testing standards you expect from Merriott, Precision Plus delivers enhanced heat outputs, broader dimensional options, and complete peace of mind with a 10 year warranty. Whether you're retrofitting or specifying for a high-performance new build, the latest Precision Plus range ensures you're covered.



Range Overview

Precision Plus

The Precision Plus is a compact, high-output convector designed to deliver exceptional performance. Manufactured to the highest standards, it ensures durability and reliability. Its high-pressure capabilities make it an excellent choice for commercial applications. It comes in a wide range of RAL colours, perfect for matching your décor. Each unit features side panels and grilles, offering a sleek and stylish appearance.

With an impressive output range from 152W to 7253W at $\Delta T 50^{\circ}\text{C}$, it provides the perfect solution for all your specification needs. Available in heights ranging from 1000mm to 2600mm, in 200mm increments.

Precision Plus is available in length increments of 72mm. The V10 and V20 versions range from 142mm to 1510mm, while the V11 and V21 types range from 142mm to 934mm.

OUTPUTS

All Merriott Precision Plus have been manufactured and tested in accordance with EN442.

FINISH

Undercoat: Electrophoretic, using water-soluble paints, conforming to DIN 55900 part 1, stoved at 165°C .

Finish: Electrostatic powder coating, conforming to DIN 55900 part 2, in our state-of-the-art facility.

(On request, and at a supplementary charge, a range of RAL and special colours are available).

This particularly robust coating is stoved at an object temperature of 180°C .

CONNECTIONS

Standard connections are 4 x 1/2" BSP connections, with BDAC configuration provided as standard, other connection configurations and connection sizes are available on request. See page 43 for details.

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

TESTING

Standard Model:

- Test Pressure: 6.4 bar
- Working Pressure: 5 bar

High Pressure Model:

- Test Pressure: 10.4 bar
- Working Pressure: 8 bar

BRACKETS AND FEET

Merriott Precision Plus are supplied with either wall brackets or floor brackets, according to your specification.

GRILLES

Precision Plus are supplied with grilles and side brackets as standard, which can be removed.

DIMENSIONAL TOLERANCES

Dimensional tolerances are in accordance with EN442.

MATERIALS

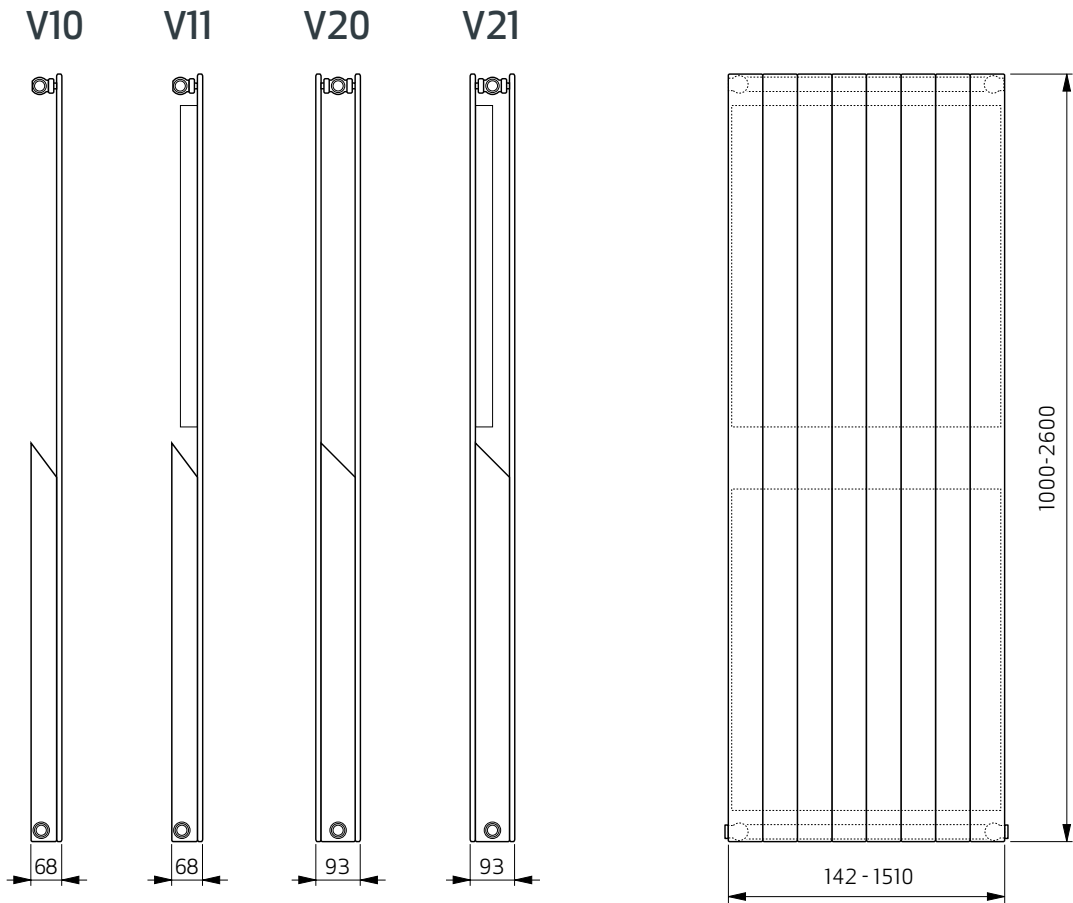
Merriott Precision Plus are manufactured from rectangular steel tubes, 70mm x 11mm, with a standard thickness of 1.5mm. High pressure Precision Plus are manufactured from 2.0mm thick steel.

WARRANTY

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

Range Options

Precision Plus models



Heat Outputs

Precision Plus V10 & V11 models

V10:

Height	1000		1200		1400		1600		1800		2000		2200		2400		2600	
n'	1.36		1.40		1.40		1.40		1.40		1.39		1.38		1.37		1.36	
	Output (Watts)																	
Length	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
142	152	76	182	89	214	105	247	121	281	137	317	156	354	175	393	195	435	217
214	229	114	275	135	322	157	372	182	424	207	478	235	534	264	593	295	655	327
286	306	153	367	180	431	211	497	243	566	277	638	314	714	353	793	394	875	437
358	383	191	460	225	539	264	622	304	708	346	799	393	893	441	992	493	1095	547
430	460	230	552	270	648	317	747	365	851	416	960	472	1073	530	1192	592	1316	657
502	537	268	645	315	756	370	872	427	993	486	1120	551	1252	619	1391	691	1536	767
574	614	307	737	360	864	423	998	488	1136	556	1281	630	1432	708	1591	790	1756	877
646	691	345	829	405	973	476	1123	549	1278	625	1442	709	1612	797	1790	889	1977	987
718	768	383	922	451	1081	529	1248	610	1421	695	1603	788	1791	885	1990	988	2197	1097
790	845	422	1014	496	1190	582	1373	672	1563	764	1763	867	1971	974	2189	1087	2417	1207
862	921	460	1107	541	1298	635	1498	733	1706	834	1924	946	2151	1063	2389	1187	2638	1317
934	998	498	1199	586	1407	688	1623	794	1848	904	2085	1025	2330	1151	2588	1285	2858	1427
1006	1075	537	1292	632	1515	741	1748	855	1991	974	2245	1104	2510	1240	2788	1385	3078	1537
1078	1152	575	1384	677	1623	794	1874	917	2133	1043	2406	1183	2690	1329	2987	1484	3299	1647
1150	1229	614	1477	722	1732	847	1999	978	2276	1113	2567	1262	2869	1418	3187	1583	3519	1757
1222	1306	652	1569	767	1840	900	2124	1039	2418	1183	2728	1341	3049	1507	3386	1682	3739	1867
1294	1383	690	1661	812	1949	953	2249	1100	2561	1253	2888	1420	3229	1596	3586	1781	3960	1977
1366	1460	729	1754	858	2057	1006	2374	1161	2703	1322	3049	1499	3408	1684	3785	1880	4180	2087
1438	1537	767	1846	903	2166	1059	2499	1222	2846	1392	3210	1578	3588	1773	3985	1979	4400	2197
1510	1614	806	1939	948	2274	1112	2624	1283	2988	1461	3370	1657	3767	1861	4184	2078	4621	2307

V11:

Height	1000		1200		1400		1600		1800		2000		2200	
n'	1.37		1.36		1.37		1.37		1.37		1.36		1.34	
	Output (Watts)													
Length	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
142	189	94	219	109	249	124	281	140	314	156	348	174	384	194
214	285	142	330	165	376	187	424	211	473	235	524	262	578	292
286	381	189	441	220	503	250	566	281	632	314	701	350	772	389
358	476	236	552	276	629	312	708	352	791	393	877	438	967	488
430	572	284	663	331	756	375	851	423	950	472	1054	526	1161	586
502	668	332	774	386	882	438	993	493	1109	551	1230	614	1356	684
574	764	379	885	442	1009	501	1136	564	1268	630	1406	702	1550	782
646	860	427	995	497	1135	564	1278	635	1427	709	1583	790	1745	880
718	956	475	1106	552	1262	627	1421	706	1586	788	1759	878	1939	978
790	1051	522	1217	608	1388	689	1563	776	1745	867	1936	966	2134	1076
862	1147	570	1328	663	1515	752	1706	847	1904	946	2112	1054	2328	1174
934	1243	617	1439	718	1641	815	1848	918	2063	1025	2288	1142	2523	1272

NOTE:

All outputs are in accordance with BS EN442 certification.

'n' = average exponent value.

For outputs at other ΔT 's please see calculation example on pages 46-47.

Heat Outputs

Precision Plus V20 & V21 models

V20:

Height	1000		1200		1400		1600		1800		2000		2200		2400		2600	
n'	1.39		1.41		1.41		1.41		1.40		1.39		1.38		1.37		1.36	
	Output (Watts)																	
Length	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
142	261	128	313	152	364	177	416	202	469	229	521	256	575	284	628	312	682	340
214	394	194	471	229	549	267	627	305	706	345	786	386	866	428	947	470	1028	513
286	526	259	630	307	734	357	839	408	944	462	1050	516	1157	572	1265	628	1374	686
358	659	324	788	383	919	447	1050	511	1182	578	1315	646	1448	716	1583	786	1719	858
430	791	389	947	461	1103	537	1261	614	1419	694	1579	776	1740	860	1902	945	2065	1031
502	924	454	1105	538	1288	627	1472	716	1657	810	1843	906	2031	1004	2220	1103	2411	1204
574	1056	519	1264	615	1473	717	1683	819	1895	927	2108	1036	2322	1147	2539	1261	2757	1376
646	1189	585	1422	692	1658	807	1894	922	2132	1043	2372	1166	2614	1292	2857	1419	3103	1549
718	1321	649	1581	769	1842	896	2105	1024	2370	1159	2636	1296	2905	1435	3176	1577	3449	1722
790	1454	715	1740	847	2027	986	2316	1127	2608	1276	2901	1426	3196	1579	3494	1735	3794	1894
862	1586	780	1898	924	2212	1076	2527	1230	2845	1392	3165	1556	3488	1724	3813	1894	4140	2067
934	1719	845	2057	1001	2397	1166	2738	1332	3083	1508	3430	1686	3779	1867	4131	2052	4486	2239
1006	1851	910	2215	1078	2581	1256	2950	1436	3321	1624	3694	1816	4070	2011	4450	2210	4832	2412
1078	1984	975	2374	1155	2766	1346	3161	1538	3558	1740	3958	1946	4362	2155	4768	2368	5178	2585
1150	2116	1040	2532	1232	2951	1436	3372	1641	3796	1857	4223	2076	4653	2299	5086	2526	5523	2757
1222	2248	1105	2691	1310	3136	1526	3583	1744	4034	1973	4487	2206	4944	2443	5405	2684	5869	2930
1294	2381	1171	2849	1386	3320	1616	3794	1846	4271	2089	4752	2336	5236	2587	5723	2842	6215	3103
1366	2513	1235	3008	1464	3505	1706	4005	1949	4509	2205	5016	2466	5527	2731	6042	3001	6561	3275
1438	2646	1301	3166	1541	3690	1796	4216	2052	4747	2322	5280	2596	5818	2875	6360	3159	6907	3448
1510	2778	1366	3325	1618	3875	1886	4427	2154	4985	2438	5545	2726	6109	3019	6679	3317	7253	3621

V21:

Height	1000		1200		1400		1600		1800		2000		2200	
n'	1.42		1.42		1.41		1.40		1.40		1.38		1.36	
	Output (Watts)													
Length	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30	ΔT50	ΔT30
142	292	145	344	172	397	197	452	224	509	253	570	285	633	319
214	441	219	518	259	598	297	681	338	768	381	859	429	953	481
286	589	293	692	345	799	397	911	452	1026	510	1147	573	1274	643
358	737	366	867	433	1001	497	1140	566	1285	638	1436	717	1595	804
430	885	440	1041	520	1202	597	1369	680	1543	766	1725	861	1916	966
502	1034	514	1215	607	1403	697	1598	794	1801	895	2014	1005	2236	1128
574	1182	587	1390	694	1604	797	1828	908	2060	1023	2303	1150	2557	1290
646	1330	661	1564	781	1806	897	2057	1022	2318	1151	2592	1294	2878	1451
718	1478	734	1738	868	2007	997	2286	1135	2576	1279	2881	1438	3199	1613
790	1627	808	1913	955	2208	1097	2515	1249	2835	1408	3169	1582	3519	1775
862	1775	882	2087	1042	2409	1196	2745	1363	3093	1536	3458	1726	3840	1937
934	1923	931	2261	1095	2611	1271	2974	1455	3351	1639	3747	1852	4161	2077

NOTE:

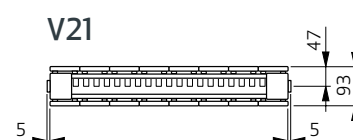
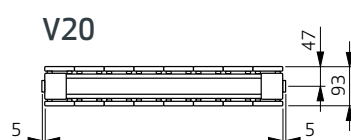
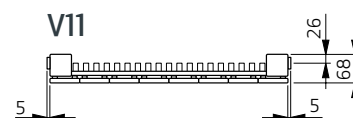
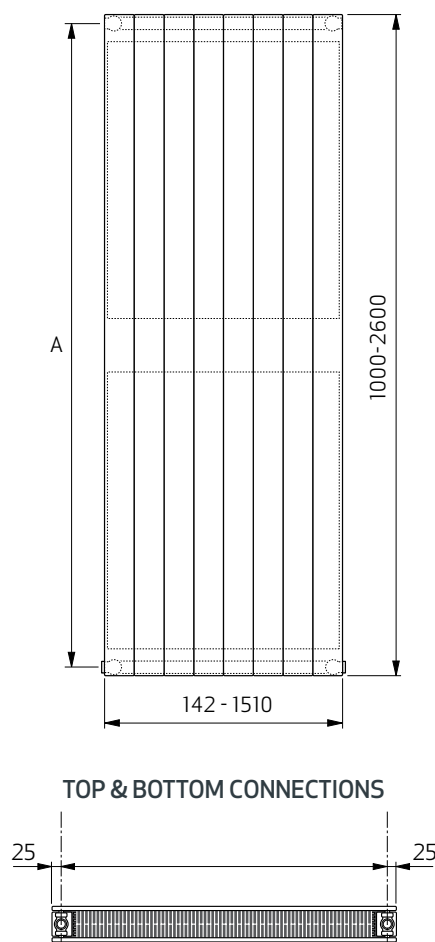
All outputs are in accordance with BS EN442 certification.

'n' = average exponent value.

For outputs at other ΔT's please see calculation example on pages 46-47.

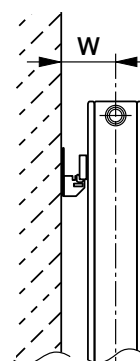
Connection Dimensions

Precision Plus models



Height (mm)	1000	1200	1400	1600	1800	2000	2200	2400	2600
Connection Distance A (mm)	950	1150	1350	1550	1750	1950	2150	2350	2550

CONNECTION
DISTANCE FROM
THE WALL



DIMENSION INFORMATION:

Wall brackets: WA 10-20 (Lengths 142mm & 214mm); WA 11-30 (Lengths from 286mm)

Type	V10**		V11**		V20		V21	
Bracket Type	WA 10-20	WA 11-30	WA 10-20	WA 11-30	WA 10-20	WA 11-30	WA 10-20	WA 11-30
Radiator depth (ex. Wall Bracket)	68	68	68	68	93	93	93	93
Overall Radiator Depth Inc. Brackets	77	87	77	87	125.5	135.5	125.5	135.5
Bracket Depth	20	30	20	30	20	30	20	30
Wall to Centre of Connection (W)	35	45	35	45	79.5	89.5	79.5	89.5
Front of Radiator to Centre of Connection	42	42	42	42	46	46	46	46
Back of Radiator to Wall	9	19	9	19	32.5	42.5	32.5	42.5
Bottom of Radiator to Centre of Bottom Connection (BD/DB Connections)	25							
Top of Radiator to Centre of Connection (AC/CA Connections)	25							
Outside Edge of Radiator to Centre of Connection (EF/FE/GH/HG Connection)	25							
Pipe Dimension Centres (V10/V20) (EF/GH Connections)	-50							

** For the installation of the V10 and V11 with connection in angled design from the wall, please use the WA10-40 or the WA11-40 to achieve the required wall clearance.

All dimensions are in millimetres (mm)

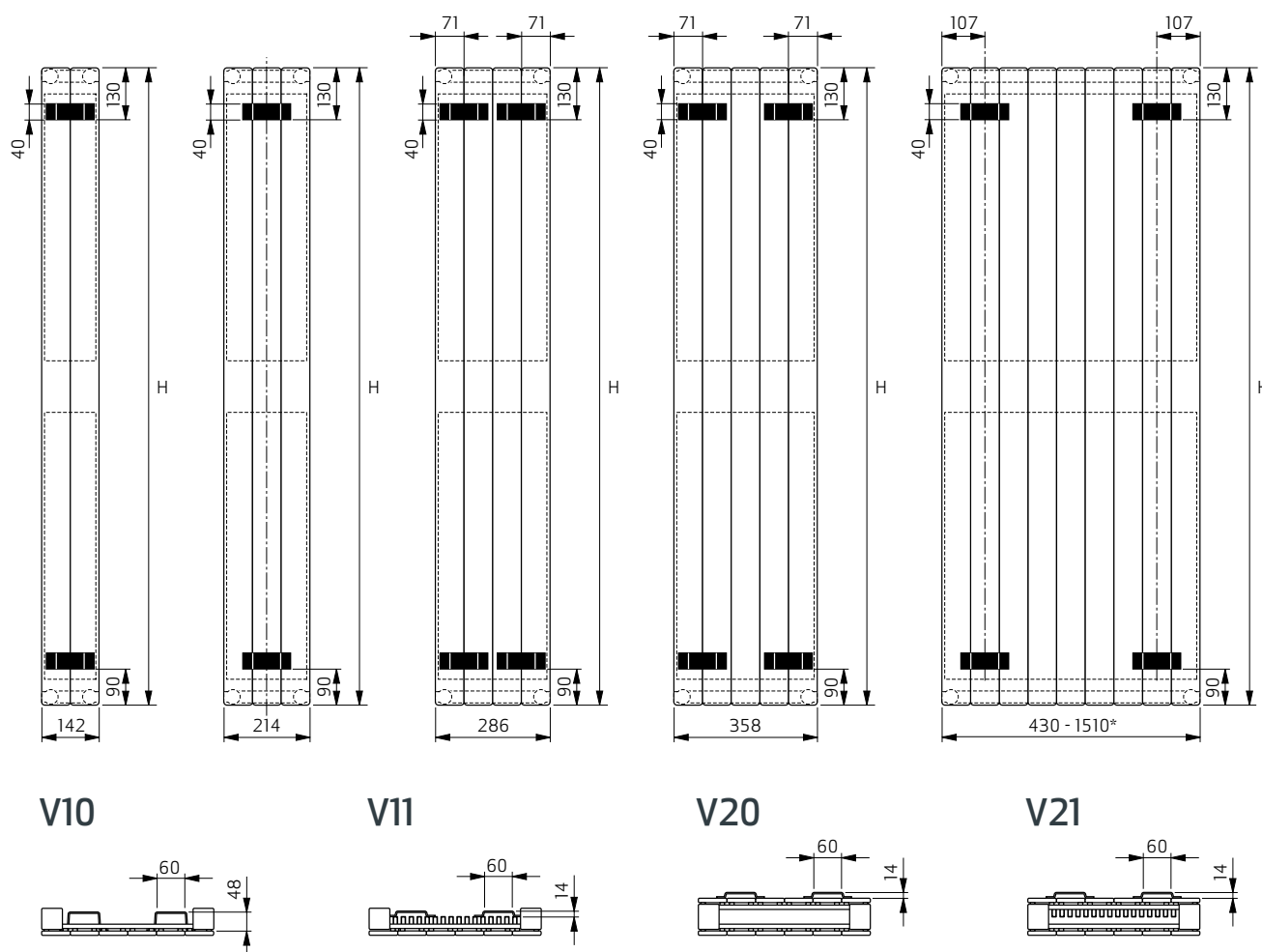
Weights and Water Contents

Precision Plus models

	Height (mm)	1000	1200	1400	1600	1800	2000	2200	2400	2600
V10	Water Content (l/m)	7.5	8.79	10.08	11.37	12.47	13.85	15.24	16.48	17.72
	Dry Weight (kg/m)	29.21	34.29	39.37	44.45	49.6	54.75	59.7	64.85	70
V11	Water Content (l/m)	7.5	8.79	10.08	11.37	12.47	13.85	15.24	-	-
	Dry Weight (kg/m)	47.94	53.09	58.24	63.39	68.53	73.69	78.83	-	-
V20	Water Content (l/m)	15	17.58	20.16	22.74	24.34	27.71	30.48	32.96	35.44
	Dry Weight (kg/m)	55.38	65.4	75.42	85.44	95.46	105.48	115.5	125.52	135.54
V21	Water Content (l/m)	15	17.58	20.16	22.74	24.34	27.71	30.48	-	-
	Dry Weight (kg/m)	74.31	84.33	94.35	104.37	114.39	124.42	134.44	-	-

Mounting Details

Precision Plus models - Bracket locations



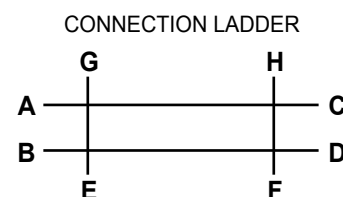
*For radiators over 180kg the radiator will be manufactured with an additional set of central lugs.

Connection Options

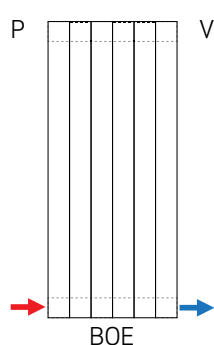
Precision Plus models

CONNECTION VARIATIONS

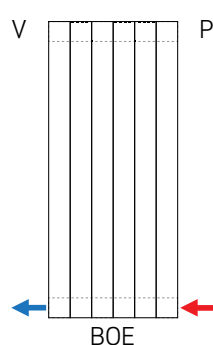
- A, B, C, D, E, F, G and H are connection positions
- Standard Vertical radiator configurations are 6 connections at BDAC



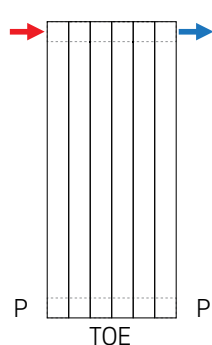
BDAC



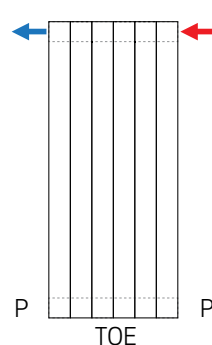
DBCA



ACBD

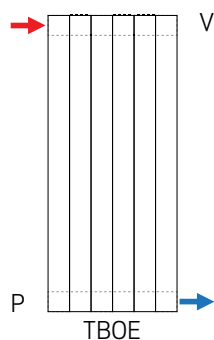


CADB

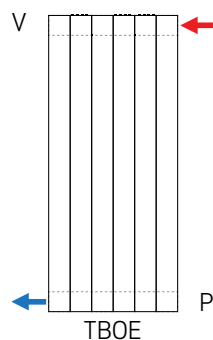


- Key
- P = Plug
 - V = Vent
 - = Flow
 - ← = Return
 - BOE = Bottom Opposite End
 - TBSE = Top Bottom Same End
 - TBOE = Top Bottom Opposite End
 - TOE = Top Opposite End
 - BBOE = Bottom Bottom Opposite End
 - TTOE = Top Top Opposite End

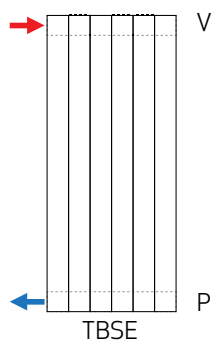
ADBC



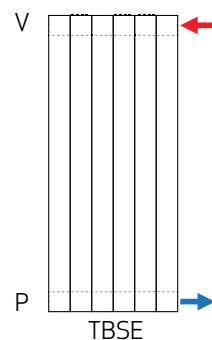
CBDA



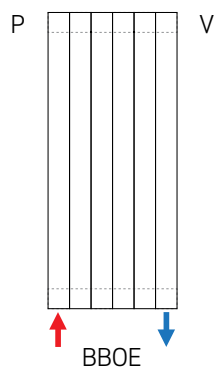
ABDC



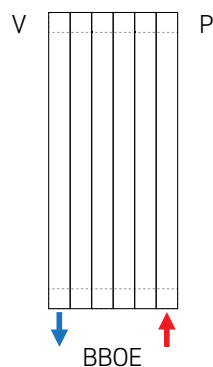
CDBA



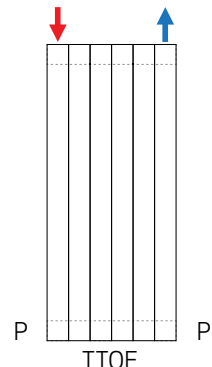
EFAC



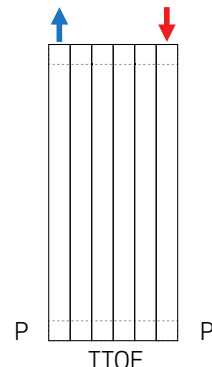
FECA



GHBD

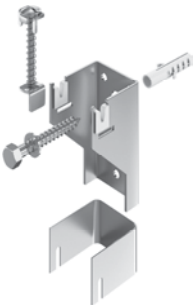


HGBD



Accessories

Precision Plus models - Wall brackets

Product	Product Code
 Wall suspension WA 10 - 20 Including anti-lift device for vertical radiators with fastening bracket for lengths 142 and 214mm. Consisting of 1 bracket, 1 spacer, 1 anti-lift device, screws and dowels. Wall distance: finished wall to radiator bracket = 20mm.	AZIBU120A0001000
 Wall suspension WA 10 - 40 Including anti-lift device for vertical radiators with fastening bracket for lengths 142 and 214mm. Consisting of 1 bracket, 1 spacer, 1 anti-lift device, screws and dowels. For connection in angled design from the wall. Wall distance: finished wall to radiator bracket = 40mm.	AZIBU140A0001000
 Wall suspension WA 11 - 30 Including plastic anti-lift device for vertical radiators from a length of 286mm. AK2 (Class 2): consisting of 2 brackets, 2 spacers, 2 anti-lift devices and screws and dowels. AK3 (VDI6036 Class 3): consisting of 4 brackets, 4 anti-lift devices and screws and dowels. Suitable for prisons, schools. Wall distance: finished wall to radiator bracket = 30mm.	AZIBU130K0001000 AZIBU130K0004000
 Wall suspension WA 11 - 40 Including plastic anti-lift device for vertical radiators with fastening tabs from a length of 286mm. For connection in angled design from the wall. AK2 (Class 2): consisting of 2 brackets, 2 spacers, 2 anti-lift devices and screws and dowels. AK3 (VDI6036 Class 3): consisting of 4 brackets, 4 anti-lift devices and screws and dowels. Suitable for prisons, schools. Wall distance: finished wall to radiator bracket = 40mm.	AZIBU140K0001000 AZIBU140K0004000

Accessories

Precision Plus models - Spares & valves

Product	Product Code
 Blanking plug G 1/2" (self-sealing) nickel-plated brass with plastic cover cap.	AZ0PL000B2001000
 Air vent G 1/2" thread, rotatable with O-ring. Nickel-plated brass.	AZ0PL000V0001000
 FFLOW manual valve radpack Lockshield & wheelhead pack angle Lockshield & wheelhead pack straight Polished chrome Polished chrome	FDI260A15ABYBHOV1 FDI260A15AAYBHOV1
 Decorative manual valve radpack Lockshield & wheelhead pack angle Lockshield & wheelhead pack straight Polished chrome Polished chrome	FDI310015ABYBHOV1 FDI310015AAYBHOV1
 Commercial valve radpack White TRV head, body & lockshield pack angle White TRV head, body & lockshield pack straight Polished chrome Polished chrome	FDJ010A15ABYBHOV0 FDJ010A15AAYBHOV0
 Decorative valve radpack Chrome TRV head, body & lockshield pack angle Chrome TRV head, body & lockshield pack straight Polished chrome Polished chrome	EDJN10015ABYBHVK1 EDJN10015AAYBHVK1

Correction Factors

How to calculate a corrected output

1. Calculate the Delta T including air temperature - example:
Mean Water Temperature (MWT) = (°C Flow + °C Return) / 2 = (65 + 55) / 2 = 60 °C
Required Air Temperature = 21 °C
Delta T (ΔT) = Mean Water Temperature - Required Air Temperature = 60 - 21 = 39 °C
2. Note the Delta T 50 output shown for the specific size you require.
3. Locate the Exponent ('n') for the product you have selected within the Correction Factor table and your calculated Delta T (ΔT).
4. Multiply the Delta T 50 output noted, by the correction factor shown.

Outputs stated within this catalogue are shown at ΔT50 °C and also calculated at ΔT30 °C.

Multiplying factors required to calculate outputs at different Delta Ts (ΔTs) between 15 °C and 60 °C are shown in the Correction Factor tables.

ΔT	Exponent 'n'													
	1.09	1.1	1.13	1.17	1.18	1.19	1.2	1.21	1.22	1.23	1.24	1.25	1.26	1.27
60	1.2199	1.2221	1.2288	1.2378	1.2400	1.2423	1.2446	1.2468	1.2491	1.2514	1.2537	1.2560	1.2583	1.2606
59	1.1977	1.1997	1.2057	1.2137	1.2157	1.2177	1.2197	1.2217	1.2238	1.2258	1.2278	1.2299	1.2319	1.2339
58	1.1756	1.1773	1.1826	1.1896	1.1914	1.1932	1.1949	1.1967	1.1985	1.2003	1.2021	1.2039	1.2056	1.2074
57	1.1535	1.1550	1.1596	1.1657	1.1672	1.1687	1.1703	1.1718	1.1733	1.1749	1.1764	1.1780	1.1795	1.1811
56	1.1315	1.1328	1.1366	1.1418	1.1431	1.1444	1.1457	1.1470	1.1483	1.1496	1.1509	1.1522	1.1535	1.1548
55	1.1095	1.1105	1.1137	1.1180	1.1190	1.1201	1.1212	1.1222	1.1233	1.1244	1.1255	1.1265	1.1276	1.1287
54	1.0875	1.0883	1.0909	1.0942	1.0951	1.0959	1.0968	1.0976	1.0984	1.0993	1.1001	1.1010	1.1018	1.1027
53	1.0656	1.0662	1.0681	1.0706	1.0712	1.0718	1.0724	1.0731	1.0737	1.0743	1.0749	1.0756	1.0762	1.0768
52	1.0437	1.0441	1.0453	1.0470	1.0474	1.0478	1.0482	1.0486	1.0490	1.0494	1.0498	1.0502	1.0507	1.0511
51	1.0218	1.0220	1.0226	1.0234	1.0236	1.0238	1.0240	1.0243	1.0245	1.0247	1.0249	1.0251	1.0253	1.0255
50	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49	0.9782	0.9780	0.9774	0.9766	0.9764	0.9762	0.9760	0.9759	0.9757	0.9755	0.9753	0.9751	0.9749	0.9747
48	0.9565	0.9561	0.9549	0.9534	0.9530	0.9526	0.9522	0.9518	0.9514	0.9510	0.9506	0.9503	0.9499	0.9495
47	0.9348	0.9342	0.9325	0.9302	0.9296	0.9290	0.9284	0.9279	0.9273	0.9267	0.9261	0.9256	0.9250	0.9244
46	0.9131	0.9124	0.9101	0.9071	0.9063	0.9055	0.9048	0.9040	0.9033	0.9025	0.9018	0.9010	0.9003	0.8995
45	0.8915	0.8906	0.8878	0.8840	0.8831	0.8822	0.8812	0.8803	0.8794	0.8785	0.8775	0.8766	0.8757	0.8748
44	0.8699	0.8688	0.8655	0.8611	0.8600	0.8589	0.8578	0.8567	0.8556	0.8545	0.8534	0.8523	0.8512	0.8501
43	0.8484	0.8471	0.8433	0.8382	0.8370	0.8357	0.8344	0.8332	0.8319	0.8307	0.8294	0.8282	0.8269	0.8257
42	0.8269	0.8255	0.8212	0.8155	0.8140	0.8126	0.8112	0.8098	0.8084	0.8070	0.8056	0.8042	0.8028	0.8014
41	0.8055	0.8039	0.7991	0.7928	0.7912	0.7897	0.7881	0.7865	0.7850	0.7834	0.7819	0.7803	0.7788	0.7772
40	0.7841	0.7823	0.7771	0.7702	0.7685	0.7668	0.7651	0.7634	0.7617	0.7600	0.7583	0.7566	0.7549	0.7532
39	0.7628	0.7609	0.7552	0.7477	0.7459	0.7440	0.7422	0.7403	0.7385	0.7367	0.7348	0.7330	0.7312	0.7294
38	0.7415	0.7394	0.7334	0.7254	0.7234	0.7214	0.7194	0.7174	0.7155	0.7135	0.7116	0.7096	0.7077	0.7057
37	0.7202	0.7181	0.7116	0.7031	0.7010	0.6989	0.6968	0.6947	0.6926	0.6905	0.6884	0.6863	0.6843	0.6822
36	0.6990	0.6967	0.6899	0.6809	0.6787	0.6764	0.6742	0.6720	0.6698	0.6676	0.6654	0.6632	0.6611	0.6589
35	0.6779	0.6755	0.6683	0.6588	0.6565	0.6541	0.6518	0.6495	0.6472	0.6449	0.6426	0.6403	0.6380	0.6357
34	0.6568	0.6543	0.6467	0.6368	0.6344	0.6320	0.6295	0.6271	0.6247	0.6223	0.6199	0.6175	0.6151	0.6128
33	0.6358	0.6331	0.6253	0.6150	0.6124	0.6099	0.6074	0.6049	0.6023	0.5998	0.5974	0.5949	0.5924	0.5900
32	0.6148	0.6121	0.6039	0.5932	0.5906	0.5880	0.5854	0.5827	0.5801	0.5776	0.5750	0.5724	0.5699	0.5673
31	0.5939	0.5911	0.5826	0.5716	0.5689	0.5662	0.5635	0.5608	0.5581	0.5554	0.5528	0.5502	0.5475	0.5449
30	0.5730	0.5701	0.5614	0.5501	0.5473	0.5445	0.5417	0.5390	0.5362	0.5335	0.5308	0.5281	0.5254	0.5227
29	0.5523	0.5493	0.5403	0.5287	0.5258	0.5230	0.5201	0.5173	0.5145	0.5117	0.5089	0.5062	0.5034	0.5007
28	0.5315	0.5285	0.5193	0.5074	0.5045	0.5016	0.4987	0.4958	0.4929	0.4901	0.4873	0.4844	0.4816	0.4788
27	0.5109	0.5077	0.4984	0.4863	0.4833	0.4803	0.4774	0.4745	0.4715	0.4686	0.4658	0.4629	0.4601	0.4572
26	0.4903	0.4871	0.4776	0.4653	0.4623	0.4592	0.4563	0.4533	0.4503	0.4474	0.4445	0.4416	0.4387	0.4358
25	0.4698	0.4665	0.4569	0.4444	0.4414	0.4383	0.4353	0.4323	0.4293	0.4263	0.4234	0.4204	0.4175	0.4147
24	0.4493	0.4460	0.4363	0.4237	0.4206	0.4175	0.4145	0.4114	0.4084	0.4054	0.4025	0.3995	0.3966	0.3937
23	0.4289	0.4256	0.4158	0.4031	0.4000	0.3969	0.3938	0.3908	0.3878	0.3848	0.3818	0.3788	0.3759	0.3730
22	0.4087	0.4053	0.3955	0.3827	0.3796	0.3765	0.3734	0.3703	0.3673	0.3643	0.3613	0.3584	0.3554	0.3525
21	0.3885	0.3851	0.3752	0.3624	0.3593	0.3562	0.3531	0.3501	0.3470	0.3440	0.3411	0.3381	0.3352	0.3323
20	0.3683	0.3650	0.3551	0.3423	0.3392	0.3361	0.3330	0.3300	0.3270	0.3240	0.3210	0.3181	0.3152	0.3123
19	0.3483	0.3450	0.3351	0.3224	0.3193	0.3162	0.3131	0.3101	0.3071	0.3042	0.3013	0.2984	0.2955	0.2926
18	0.3284	0.3250	0.3152	0.3026	0.2995	0.2965	0.2935	0.2905	0.2875	0.2846	0.2817	0.2789	0.2760	0.2732
17	0.3085	0.3052	0.2955	0.2830	0.2800	0.2770	0.2740	0.2711	0.2682	0.2653	0.2624	0.2596	0.2568	0.2541
16	0.2888	0.2855	0.2759	0.2636	0.2607	0.2577	0.2548	0.2519	0.2490	0.2462	0.2434	0.2407	0.2380	0.2353
15	0.2692	0.2660	0.2565	0.2445	0.2415	0.2387	0.2358	0.2330	0.2302	0.2274	0.2247	0.2220	0.2194	0.2167

Correction Factors

How to calculate a corrected output

EXAMPLE:

Radiator selected =
H22S, 578mm (Height) x 3000mm (Length)
Delta T of System (ΔT) =
39 °C
Exponent ('n') =
1.30
Output @ Delta T50 =
5814 (w)

Style:	H22S (Full Fin)	
Depth (mm) (excl. brackets)	118	
'n'	1.30	
Length (mm)	$\Delta T50$	$\Delta T30$
	3000	5814 2978

Product example: H22S (full fin, 578mm high) extracted from page 14.

Corrected Output =
5814 (w) x 0.7240 (Correction Factor) = 4209 (w) at $\Delta T39$

ΔT	Exponent 'n'													
	1.28	1.29	1.3	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41
60	1.2629	1.2652	1.2675	1.2698	1.2721	1.2744	1.2767	1.2791	1.2814	1.2837	1.2861	1.2884	1.2908	1.2931
59	1.2360	1.2380	1.2401	1.2421	1.2442	1.2462	1.2483	1.2504	1.2524	1.2545	1.2566	1.2587	1.2608	1.2629
58	1.2092	1.2110	1.2128	1.2146	1.2164	1.2182	1.2200	1.2219	1.2237	1.2255	1.2273	1.2291	1.231	1.2328
57	1.1826	1.1842	1.1857	1.1873	1.1888	1.1904	1.1919	1.1935	1.1951	1.1966	1.1982	1.1998	1.2013	1.2029
56	1.1561	1.1574	1.1587	1.1600	1.1614	1.1627	1.1640	1.1653	1.1666	1.168	1.1693	1.1706	1.1719	1.1733
55	1.1298	1.1308	1.1319	1.1330	1.1341	1.1351	1.1362	1.1373	1.1384	1.1395	1.1406	1.1417	1.1427	1.1438
54	1.1035	1.1044	1.1052	1.1061	1.1069	1.1078	1.1086	1.1095	1.1103	1.1112	1.1121	1.1129	1.1138	1.1146
53	1.0774	1.0781	1.0787	1.0793	1.0800	1.0806	1.0812	1.0818	1.0825	1.0831	1.0837	1.0844	1.085	1.0856
52	1.0515	1.0519	1.0523	1.0527	1.0531	1.0535	1.0540	1.0544	1.0548	1.0552	1.0556	1.056	1.0564	1.0569
51	1.0257	1.0259	1.0261	1.0263	1.0265	1.0267	1.0269	1.0271	1.0273	1.0275	1.0277	1.0279	1.0281	1.0283
50	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49	0.9745	0.9743	0.9741	0.9739	0.9737	0.9735	0.9733	0.9731	0.9729	0.9727	0.9725	0.9723	0.9721	0.9719
48	0.9491	0.9487	0.9483	0.9479	0.9475	0.9472	0.9468	0.9464	0.946	0.9456	0.9452	0.9448	0.9445	0.9441
47	0.9239	0.9233	0.9227	0.9221	0.9216	0.9210	0.9204	0.9199	0.9193	0.9187	0.9182	0.9176	0.917	0.9165
46	0.8988	0.8980	0.8973	0.8965	0.8958	0.8950	0.8943	0.8935	0.8928	0.8921	0.8913	0.8906	0.8898	0.8891
45	0.8738	0.8729	0.8720	0.8711	0.8702	0.8692	0.8683	0.8674	0.8665	0.8656	0.8647	0.8638	0.8629	0.8619
44	0.8491	0.8480	0.8469	0.8458	0.8447	0.8436	0.8426	0.8415	0.8404	0.8393	0.8383	0.8372	0.8361	0.8351
43	0.8244	0.8232	0.8220	0.8207	0.8195	0.8182	0.8170	0.8158	0.8146	0.8133	0.8121	0.8109	0.8097	0.8084
42	0.8000	0.7986	0.7972	0.7958	0.7944	0.7930	0.7917	0.7903	0.7889	0.7875	0.7861	0.7848	0.7834	0.782
41	0.7757	0.7741	0.7726	0.7711	0.7695	0.7680	0.7665	0.7650	0.7635	0.7619	0.7604	0.7589	0.7574	0.7559
40	0.7515	0.7499	0.7482	0.7465	0.7449	0.7432	0.7416	0.7399	0.7382	0.7366	0.735	0.7333	0.7317	0.7301
39	0.7276	0.7258	0.7240	0.7222	0.7204	0.7186	0.7168	0.7150	0.7133	0.7115	0.7097	0.708	0.7062	0.7045
38	0.7038	0.7019	0.6999	0.6980	0.6961	0.6942	0.6923	0.6904	0.6885	0.6866	0.6847	0.6829	0.681	0.6791
37	0.6802	0.6781	0.6761	0.6741	0.6720	0.6700	0.6680	0.6660	0.664	0.662	0.66	0.658	0.656	0.6541
36	0.6567	0.6546	0.6524	0.6503	0.6482	0.6460	0.6439	0.6418	0.6397	0.6376	0.6355	0.6334	0.6313	0.6293
35	0.6335	0.6312	0.6290	0.6267	0.6245	0.6223	0.6201	0.6178	0.6156	0.6135	0.6113	0.6091	0.6069	0.6048
34	0.6104	0.6080	0.6057	0.6034	0.6011	0.5987	0.5964	0.5941	0.5919	0.5896	0.5873	0.585	0.5828	0.5805
33	0.5875	0.5851	0.5826	0.5802	0.5778	0.5754	0.5730	0.5707	0.5683	0.5659	0.5636	0.5613	0.5589	0.5566
32	0.5648	0.5623	0.5598	0.5573	0.5548	0.5524	0.5499	0.5474	0.545	0.5426	0.5402	0.5378	0.5354	0.533
31	0.5423	0.5397	0.5372	0.5346	0.5321	0.5295	0.5270	0.5245	0.522	0.5195	0.517	0.5145	0.5121	0.5097
30	0.5200	0.5174	0.5148	0.5121	0.5095	0.5069	0.5043	0.5018	0.4992	0.4967	0.4941	0.4916	0.4891	0.4866
29	0.4980	0.4952	0.4926	0.4899	0.4872	0.4846	0.4819	0.4793	0.4767	0.4741	0.4716	0.469	0.4664	0.4639
28	0.4761	0.4733	0.4706	0.4679	0.4652	0.4625	0.4598	0.4571	0.4545	0.4519	0.4493	0.4467	0.4441	0.4415
27	0.4544	0.4516	0.4489	0.4461	0.4434	0.4406	0.4379	0.4352	0.4326	0.4299	0.4273	0.4246	0.422	0.4194
26	0.4330	0.4302	0.4274	0.4246	0.4218	0.4191	0.4163	0.4136	0.4109	0.4082	0.4056	0.4029	0.4003	0.3977
25	0.4118	0.4090	0.4061	0.4033	0.4005	0.3978	0.3950	0.3923	0.3896	0.3869	0.3842	0.3816	0.3789	0.3763
24	0.3908	0.3880	0.3851	0.3823	0.3795	0.3767	0.3740	0.3713	0.3685	0.3658	0.3632	0.3605	0.3579	0.3553
23	0.3701	0.3672	0.3644	0.3616	0.3588	0.3560	0.3533	0.3505	0.3478	0.3451	0.3425	0.3398	0.3372	0.3346
22	0.3496	0.3468	0.3439	0.3411	0.3383	0.3356	0.3328	0.3301	0.3274	0.3247	0.3221	0.3194	0.3168	0.3142
21	0.3294	0.3266	0.3238	0.3210	0.3182	0.3154	0.3127	0.3100	0.3073	0.3047	0.3021	0.2994	0.2969	0.2943
20	0.3095	0.3067	0.3039	0.3011	0.2983	0.2956	0.2929	0.2903	0.2876	0.285	0.2824	0.2798	0.2773	0.2747
19	0.2898	0.2870	0.2843	0.2815	0.2788	0.2761	0.2735	0.2708	0.2682	0.2656	0.2631	0.2606	0.258	0.2556
18	0.2704	0.2677	0.2650	0.2623	0.2596	0.2570	0.2544	0.2518	0.2492	0.2467	0.2442	0.2417	0.2392	0.2368
17	0.2514	0.2487	0.2460	0.2434	0.2407	0.2382	0.2356	0.2331	0.2306	0.2281	0.2257	0.2232	0.2208	0.2185
16	0.2326	0.2300	0.2274	0.2248	0.2222	0.2197	0.2172	0.2148	0.2123	0.2099	0.2075	0.2052	0.2029	0.2006
15	0.2141	0.2116	0.2091	0.2066	0.2041	0.2016	0.1992	0.1968	0.1945	0.1922	0.1899	0.1876	0.1853	0.1831

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