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General information

Manufacturing Standards

Clyde Flat Panel radiators are tested and supplied in accordance with BS EN 442-1:1995. As required by this Standard, emission rates are quoted for the standard thermal output of $\Delta T=50$ (75/65/20°C) with the relevant exponent of excess temperature.

Heat Emission Rates

For convenience the emission rates are also quoted for typical United Kingdom applications of $\Delta T=55.5$ (82/71/21°C) and $\Delta T=60$ (90/70/20°C). Different water and /or room temperatures will change the emission rate of a radiator. The method of calculation and correction factors for various temperatures are given in Clyde's radiator emission guide EDS 732, available on request. The emissions rates stated are all based upon TBOE (top & bottom opposite end) connections.

Application

Clyde Flat Panel radiators are suitable for use in either open vented or sealed heating systems with a maximum operating pressure of 8 bar.

Materials

Clyde Flat Panel radiators are manufactured by a UNI EN ISO 9001:2008 certified company from mild steel. The standard finish is a high gloss white epoxy powder coating, RAL 9016. ½" BOE connections are supplied as standard.

Packing Handling & Site work

Radiators are wrapped in polyethylene with cardboard protectors. Large orders are delivered to site on pallets to facilitate handling. Any accessories will be delivered packed separately for fitting by the installer.

It is important that radiators are protected from the elements during offloading and are stored in dry and adequately heated premises.

To avoid damage to the radiators they must be kept vertical after having been removed from their pallets and whilst being carried to their installation locations. They MUST NOT be carried stretcher fashion.

Boxing & Enclosures

It is recommended that radiators are installed with a minimum gap of 70 mm above floor level. A full width sill above the radiator extending the depth of the radiator will reduce emission rates by approximately 4%.

Boxing of radiators or the use of decorative enclosures will reduce emission rates by upwards of 15%, according to the design of the boxing. Any restriction of the free flow of air over the radiator surface is detrimental to convected heat emission. Obscuring the front surface of the radiator eliminates the beneficial effect of radiated heat.

Connections

In accordance with Part L1 2006 of the Building Regulations and BS7593:1992 code of practice for the treatment of hot water and central heating systems, we strongly recommend flushing the heating system post installation of new radiators and then adding the correct quantity and type of inhibitor for use with your radiator and system to prevent corrosion. Damage caused to systems not protected by a suitable inhibitor will not be covered by manufacturer's guarantee.

Guarantee

Subject to correct handling and installation, Clyde Flat Panel radiators are guaranteed for 10 years from the date of despatch against manufacturing defects.

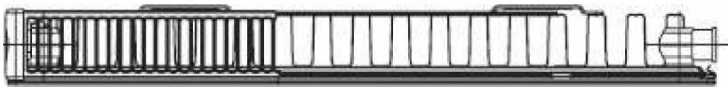


Type 11

- Single steel flat panel
- Single convector
- 3 heights and 9 widths
- Extra durable RAL 9016 paint finish; withstands external corrosion for twice as long as standard finishes.
- Popular sizes available from stock
- 10 year guarantee



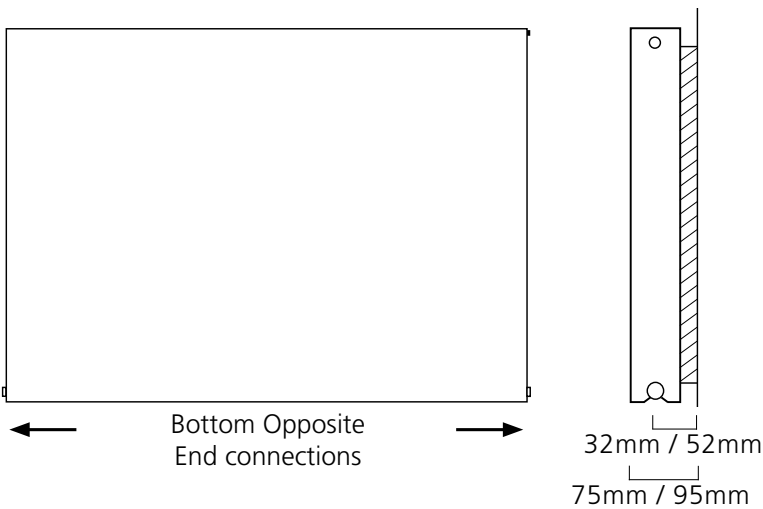
Type 11 Profile



Single steel panel with a single convector.



Technical Drawing



Pipe Centres

Pipe centres left to right = Width plus valves

Pipe centres from wall = 32mm / 52mm

Depth from wall = 75mm / 95mm

Clyde Type 11

Clyde Model	Dimensions (mm)			Weight kg	Output Δt 50°C		Output Δt 55.5°C		Output Δt 60°C	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE114060W	400	600	70	8.3	380	1297	435	1485	480	1639
TYPE114080W		800	70	11.1	506	1726	580	1978	640	2182
TYPE1140100W		1000	70	13.9	633	2160	725	2474	800	2730
TYPE1140120W		1200	70	16.7	760	2593	871	2970	961	3278
TYPE1140140W		1400	70	19.4	886	3023	1015	3463	1120	3821
TYPE1140160W		1600	70	22.2	1013	3456	1160	3959	1280	4368
TYPE1140180W		1800	70	25.0	1139	3886	1305	4451	1440	4912
TYPE1140200W		2000	70	27.8	1265	4316	1449	4944	1599	5456
TYPE115040W	500	400	70	7.1	301	1027	345	1176	380	1298
TYPE115060W		600	70	10.6	452	1542	518	1766	571	1949
TYPE115080W		800	70	14.1	602	2054	690	2353	761	2596
TYPE1150100W		1000	70	17.7	752	2566	861	2939	951	3243
TYPE1150120W		1200	70	21.2	903	3081	1034	3529	1141	3894
TYPE1150140W		1400	70	24.7	1053	3593	1206	4115	1331	4541
TYPE1150160W		1600	70	28.3	1204	4108	1379	4705	1522	5193
TYPE1150180W		1800	70	31.8	1355	4623	1552	5295	1713	5844
TYPE1150200W	2000	70	35.3	1505	5135	1724	5882	1902	6491	
TYPE116040W	600	400	70	8.7	347	1184	397	1356	439	1497
TYPE116060W		600	70	13.1	522	1781	598	2040	660	2251
TYPE116080W		800	70	17.4	696	2375	797	2720	880	3002
TYPE1160100W		1000	70	21.8	869	2965	995	3396	1098	3748
TYPE1160120W		1200	70	26.2	1043	3559	1195	4076	1318	4499
TYPE1160140W		1400	70	30.5	1217	4152	1394	4756	1538	5248
TYPE1160160W		1600	70	34.9	1391	4746	1593	5436	1758	5999
TYPE1160180W		1800	70	39.2	1565	5340	1793	6116	1978	6750
TYPE1160200W	2000	70	43.6	1739	5933	1992	6796	2198	7500	

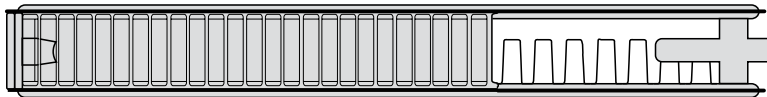
The Type 11 has a test pressure of 13 Bar, maximum operating pressure of 8 bar and the maximum working temperature is 110°C

Type 21 (p+)

- Double steel flat panel
- Single convector
- 1 height and 5 widths
- Extra durable RAL 9016 paint finish; withstands external corrosion for twice as long as standard finishes.
- Popular sizes available from stock
- 10 year guarantee



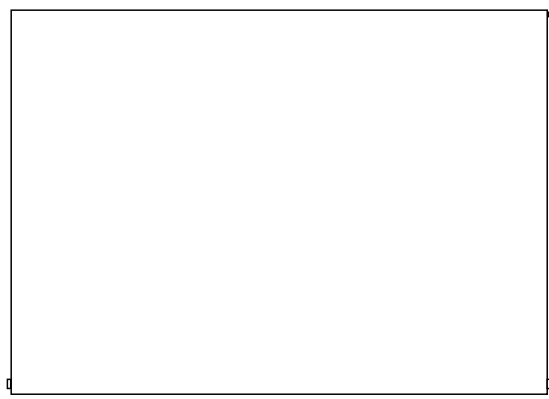
Type 21 (p+) Profile



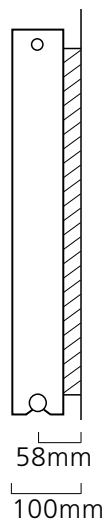
Double steel panels (one front, one back) with a single convector.



Technical Drawing



← Bottom Opposite End connections →



Pipe Centres

Pipe centres left to right = Width plus valves

Pipe centres from wall = 58mm

Depth from wall = 100mm

The Type 21 (p+) has a test pressure of 13 Bar, maximum operating pressure of 8 bar and the maximum working temperature is 110°C

Radiator models and sizes

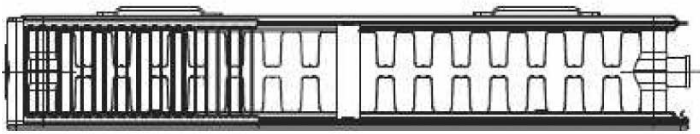
Clyde Model	Dimensions (mm)			Weight kg	Output Δt 50°C		Output Δt 55.5°C		Output Δt 60°C	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE216060W	600	600	102	13.1	729	2487	835	2849	921	3144
TYPE216080W		800	102	17.4	972	3316	1113	3799	1229	4192
TYPE2160100W		1000	102	21.8	1215	4146	1392	4748	1536	5240
TYPE2160120W		1200	102	26.2	1458	4975	1670	5698	1843	6288
TYPE2160140W		1400	102	30.5	1701	5804	1948	6648	2150	7336

Type 22

- Double steel flat panel
- Double convectors
- 4 heights and 9 widths
- Extra durable RAL 9016 paint finish; withstands external corrosion for twice as long as standard finishes.
- Popular sizes available from stock
- 10 year guarantee



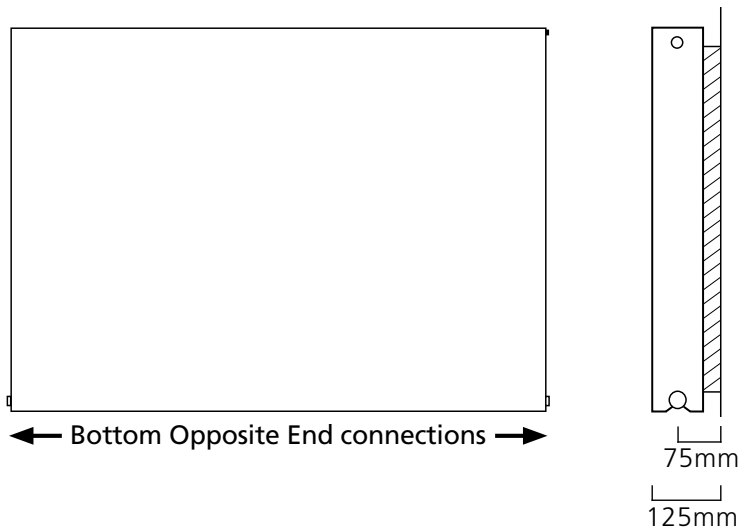
Type 22 Profile



Double steel panels (one front, one back) with double convectors.



Technical Drawing



Pipe Centres

Pipe centres left to right = Width plus valves

Pipe centres from wall = 75mm

Depth from wall = 125mm

Clyde Type 22

Clyde Model	Dimensions (mm)			Weight kg	Output Δt 50°C		Output Δt 55.5°C		Output Δt 60°C	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE223080W	300	800	102	15.8	702	2395	804	2743	887	3028
TYPE2230100W		1000	102	19.7	878	2996	1006	3431	1110	3787
TYPE2230120W		1200	102	23.6	1053	3593	1206	4115	1331	4541
TYPE2230140W		1400	102	27.6	1229	4193	1408	4803	1553	5300
TYPE2230160W		1600	102	31.5	1404	4790	1608	5487	1775	6055
TYPE2230180W		1800	102	35.5	1580	5391	1810	6175	1997	6814
TYPE224040W	400	400	102	9.7	448	1529	513	1751	566	1932
TYPE224060W		600	102	14.6	672	2293	770	2626	849	2898
TYPE224080W		800	102	19.5	896	3057	1026	3502	1133	3864
TYPE2240100W		1000	102	24.4	1121	3825	1284	4381	1417	4835
TYPE2240120W		1200	102	29.2	1345	4589	1541	5256	1700	5801
TYPE2240140W		1400	102	34.1	1569	5353	1797	6132	1983	6767
TYPE2240160W		1600	102	39.0	1793	6118	2054	7007	2266	7733
TYPE2240180W		1800	102	43.9	2017	6882	2310	7883	2549	8699
TYPE2240200W		2000	102	48.7	2241	7646	2567	8758	2833	9665
TYPE225040W		500	400	102	12.0	541	1846	620	2114	684
TYPE225060W	600		102	18.0	811	2767	929	3169	1025	3498
TYPE225080W	800		102	24.0	1082	3692	1239	4229	1368	4666
TYPE2250100W	1000		102	30.1	1352	4613	1549	5284	1709	5831
TYPE2250120W	1200		102	36.1	1622	5534	1858	6339	2050	6995
TYPE2250140W	1400		102	42.1	1893	6459	2168	7398	2393	8164
TYPE2250160W	1600		102	48.1	2163	7380	2478	8453	2734	9329
TYPE2250180W	1800		102	54.1	2434	8305	2788	9512	3077	10497
TYPE2250200W	2000		102	60.1	2704	9226	3097	10568	3418	11662
TYPE226040W	600		400	102	33.2	650	2218	745	2540	822
TYPE226060W		600	102	22.5	976	3330	1118	3814	1234	4209
TYPE226080W		800	102	30.0	1301	4439	1490	5084	1644	5611
TYPE2260100W		1000	102	37.5	1625	5545	1861	6351	2054	7009
TYPE2260120W		1200	102	45.0	1950	6653	2234	7620	2465	8409
TYPE2260140W		1400	102	52.5	2275	7762	2606	8891	2876	9811
TYPE2260160W		1600	102	60.0	2601	8875	2979	10165	3288	11218
TYPE2260180W		1800	102	67.5	2926	9984	3351	11436	3698	12620
TYPE2260200W		2000	102	75.0	3251	11092	3724	12705	4109	14021

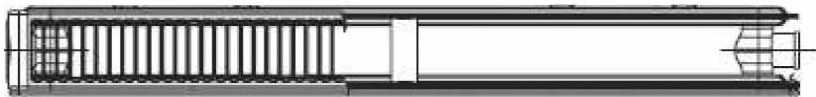
The Type 22 has a test pressure of 13 Bar, maximum operating pressure of 8 bar and the maximum working temperature is 110°C

Type 20

- Double steel flat panel
- No convectors
- 2 heights and 2 widths
- Extra durable RAL 9016 paint finish; withstands external corrosion for twice as long as standard finishes.
- Popular sizes available from stock
- 10 year guarantee

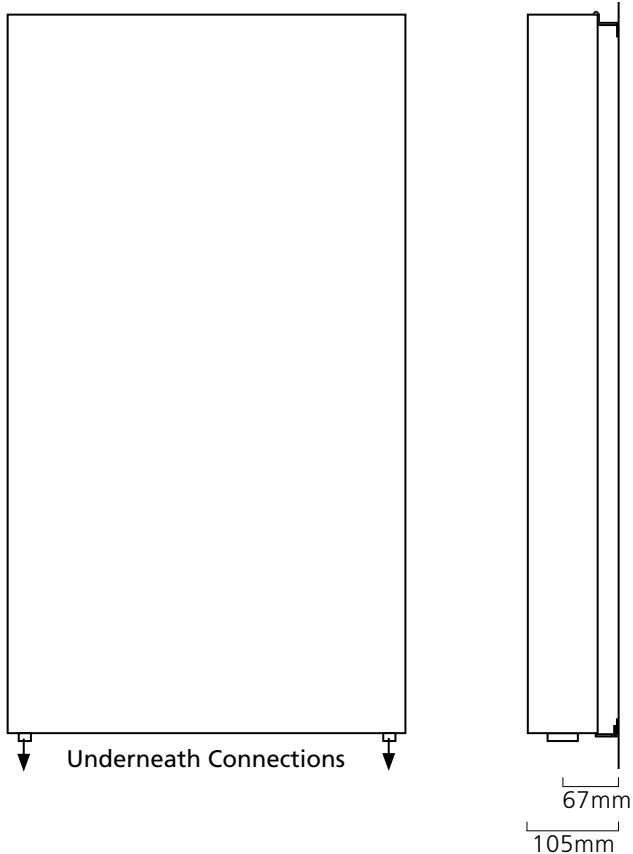


Type 20 Profile



Double steel panels (one front, one back) without convectors.

Technical Drawing



Pipe Centres

Pipe centres left to right = Width less 50mm

Pipe centres from wall = 67mm

Depth from wall = 105mm

Radiator models and sizes

Clyde Type 20

Clyde Model	Dimensions (mm)			Weight kg	Output Δt 50°C		Output Δt 55.5°C		Output Δt 60°C	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE2016050W	1600	500	68	33.2	762	2600	873	2978	963	3286
TYPE2016060W		600	68	49.0	1067	3641	1222	4170	1349	4602
TYPE2018050W	1800	500	68	37.5	834	2846	955	3260	1054	3597
TYPE2018060W		600	68	55.2	1167	3982	1337	4561	1475	5033

The Type 20 has a test pressure of 13 Bar, maximum operating pressure of 10 bar and the maximum working temperature is 110°C



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Illustrations and technical data are not binding in detail, all measurements and outputs are in accordance with the manufacturer's terms of reference at the time of going to press. Please refer to current EDS documents for technical specifications prior to ordering.