



COMMERCIAL HEATING SOLUTIONS



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Clyde is a brand of the IRSAP, Italy's leading manufacturer of design led radiators. With over 50 years experience, we have the expertise to produce the best in quality & customer service.

Clyde provides bespoke solutions for LSTs, Cast Iron, Multi Column and Aluminium radiators. With a wide range of traditional and contemporary radiators, Clyde's solution based approach is designed to ensure we supply the ideal solution for all commercial and industrial requirements.

Our dedicated team of technical advisors and estimators will discuss your installation including the calculation of your heat output requirements (from drawings if necessary), arrange a full quotation based on your exact project specifications and provide lead times. They can also arrange a site visit from our National Sales Network if required.

For more information about Clyde or any of our products, please contact our customer service department: 01342 305522 / 305566w

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TYPE 11



TECHNICAL DATA

PRODUCT FEATURES

- Single steel flat panel
- Single convector
- 3 heights
- 12 widths
- Pipework connection size is R $\frac{1}{2}$ Flow and Return BOE.
- Test Pressure: 13 Bar
- Max. Operating Pressure: 10 Bar
- Max. Working Temperature: 110°C



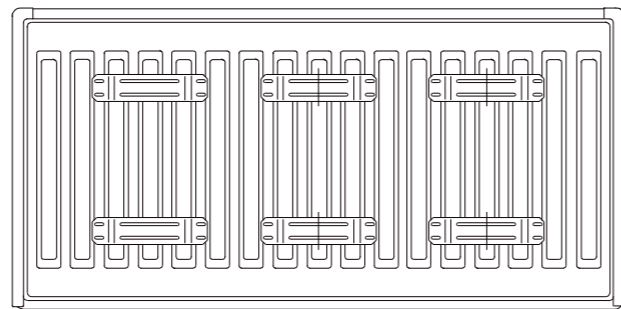
HEAT EMISSION RATES

- $\Delta T50$ (75°C / 65°C / 20°C)
- $\Delta T55.5$ (82°C / 71°C / 21°C)
- $\Delta T60$ (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of $\Delta T50$

RANGE SELECTION

- 3 heights; 400mm, 500mm, 600mm
- 12 widths from 400mm to 2000mm
- BOE (Bottom Opposite End) Connections

TECHNICAL DRAWINGS



Shorter side of bracket protruding



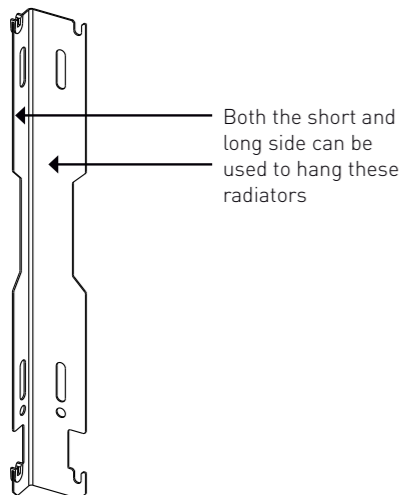
Pipe centres left to right = Width plus valves
 Pipe centres from wall = 48mm
 Depth from wall = 82mm

Longer side of bracket protruding



Pipe centres left to right = Width plus valves
 Pipe centres from wall = 68mm
 Depth from wall = 102mm

Bracket drawing



Both the short and long side can be used to hang these radiators

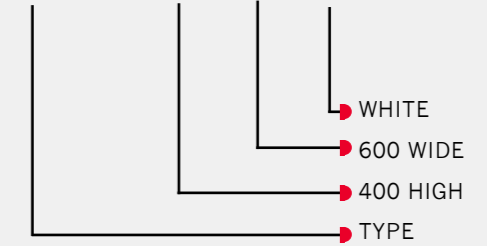
TYPE 11 SIZES $\Delta T50$, $\Delta T55.5$ & $\Delta T60$

RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3 ΔT 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

MODEL CODE (example)

TYPE11 40 60 W



SELECTING YOUR TYPE 11 FLAT PANEL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta t 50^\circ\text{C}$		Output $\Delta t 55.5^\circ\text{C}$		Output $\Delta t 60^\circ\text{C}$		
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's	
TYPE114040	400	400	65	6.6	271	925	310	1058	342	1167	
TYPE114060		600	65	9.54	407	1389	465	1587	513	1750	
TYPE114080		800	65	12.43	542	1849	620	2115	683	2330	
TYPE114010		1000	65	15.36	678	2313	775	2644	854	2914	
TYPE114011		1100	65	16.87	746	2545	852	2907	940	3207	
TYPE114012		1200	65	18.44	814	2777	929	3170	1026	3501	
TYPE114014		1400	65	21.56	949	3238	1084	3699	1196	4081	
TYPE114016		1600	65	24.3	1085	3702	1239	4227	1367	4664	
TYPE114018		1800	65	27.36	1220	4163	1394	4756	1537	5244	
TYPE114020		2000	65	30.21	1356	4627	1549	5285	1709	5831	
TYPE115040		500	400	65	8.26	327	1116	374	1276	412	1406
TYPE115060			600	65	12.03	491	1675	561	1914	619	2112
TYPE115080	800		65	15.75	654	2231	748	2552	824	2811	
TYPE115010	1000		65	19.4	818	2791	935	3190	1031	3518	
TYPE115011	1100		65	21.29	900	3071	1028	3508	1134	3869	
TYPE115012	1200		65	23.16	982	3351	1121	3825	1237	4221	
TYPE115014	1400		65	26.99	1145	3907	1308	4463	1443	4924	
TYPE115016	1600		65	30.55	1309	4466	1495	5101	1650	5630	
TYPE115018	1800		65	34.42	1472	5022	1682	5739	1855	6329	
TYPE115020	2000		65	37.9	1636	5582	1869	6377	2062	7036	
TYPE116040	600		400	65	9.86	381	1300	435	1484	480	1638
TYPE116060			600	65	14.29	572	1952	653	2228	721	2460
TYPE116070		700	65	16.43	667	2276	762	2600	841	2869	
TYPE116080		800	65	18.71	762	2600	871	2972	960	3276	
TYPE116090		900	65	20.89	858	2927	980	3344	1081	3688	
TYPE116010		1000	65	23.26	953	3252	1089	3716	1201	4098	
TYPE116011		1100	65	25.31	1048	3576	1198	4088	1321	4507	
TYPE116012		1200	65	27.59	1144	3903	1306	4456	1442	4920	
TYPE116014		1400	65	32.16	1334	4552	1524	5200	1681	5736	
TYPE116016		1600	65	36.27	1525	5203	1742	5944	1922	6558	
TYPE116018		1800	65	40.66	1715	5852	1960	6688	2161	7373	
TYPE116020		2000	65	45.13	1906	6503	2177	7428	2402	8196	

If you are looking to have your Flat Panel radiator in an alternative colour we offer a select range of RAL colours, please see page 15 for more information.

TYPE 21 (P+) Horizontal



TECHNICAL DATA

PRODUCT FEATURES

- Double steel flat panel
- Single convector
- 1 height
- 10 widths
- Pipework connection size is R $\frac{1}{2}$ Flow and Return BOE.
- Test Pressure: 13 Bar
- Max. Operating Pressure: 10 Bar
- Max. Working Temperature: 110°C



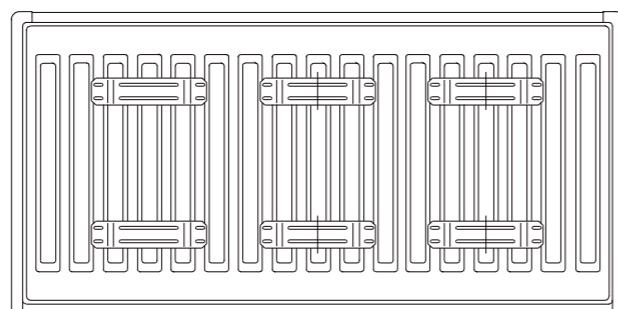
HEAT EMISSION RATES

- $\Delta T50$ (75°C / 65°C / 20°C)
- $\Delta T55.5$ (82°C / 71°C / 21°C)
- $\Delta T60$ (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of $\Delta T50$

RANGE SELECTION

- 1 height of 600mm
- 10 widths from 400mm to 1800mm
- Standard connection BOE (Bottom Opposite End)

TECHNICAL DRAWINGS



Shorter side of bracket protruding



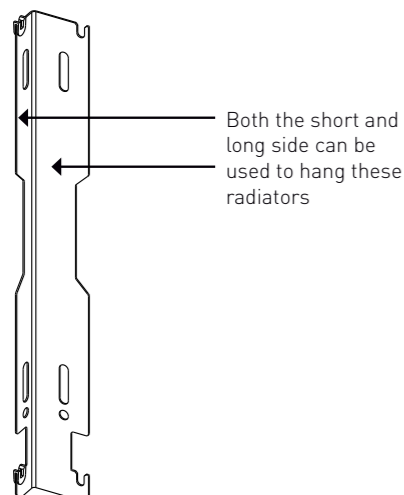
Pipe centres left to right = Width plus valves
 Pipe centres from wall = 56mm
 Depth from wall = 91mm

Longer side of bracket protruding



Pipe centres left to right = Width plus valves
 Pipe centres from wall = 76mm
 Depth from wall = 111mm

Bracket drawing

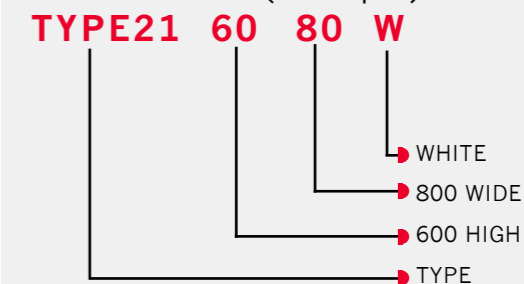


TYPE 21 (P+) HORIZONTAL SIZES $\Delta T50$, $\Delta T55.5$ & $\Delta T60$

RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3 ΔT 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

MODEL CODE (example)



SELECTING YOUR TYPE 21 (P+) FLAT PANEL HORIZONTAL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta T 50^\circ\text{C}$		Output $\Delta T 55.5^\circ\text{C}$		Output $\Delta T 60^\circ\text{C}$	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE216040	600	400	68	12.64	489	1668	562	1918	622	2122
TYPE216050		500	68	15.46	611	2085	702	2395	778	2655
TYPE216060		600	68	18.34	733	2501	843	2876	933	3183
TYPE216080		800	68	24.05	978	3337	1123	3832	1245	4248
TYPE216010		1000	68	29.93	1222	4169	1404	4790	1556	5309
TYPE216011		1100	68	32.73	1344	4586	1545	5272	1711	5838
TYPE216012		1200	68	35.69	1466	5002	1685	5749	1866	6367
TYPE216014		1400	68	41.6	1711	5838	1966	6708	2178	7431
TYPE216016		1600	68	47.4	1955	6670	2247	7667	2489	8492
TYPE216018		1800	68	53.34	2200	7506	2528	8626	2801	9557

If you are looking to have your Flat Panel radiator in an alternative colour we offer a select range of RAL colours, please see page 15 for more information.

TYPE 22



TECHNICAL DATA

PRODUCT FEATURES

- Double steel flat panel
- Double convector
- 4 heights
- 12 widths
- Pipework connection size is R $\frac{1}{2}$ Flow and Return BOE.
- Test Pressure: 13 Bar
- Max. Operating Pressure: 10 Bar
- Max. Working Temperature: 110°C



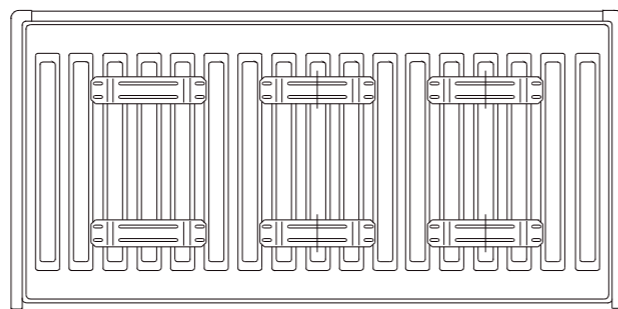
HEAT EMISSION RATES

- $\Delta T50$ (75°C / 65°C / 20°C)
- $\Delta T55.5$ (82°C / 71°C / 21°C)
- $\Delta T60$ (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of $\Delta T50$

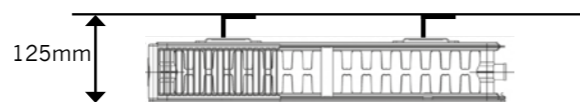
RANGE SELECTION

- 4 heights from 300mm to 600mm
- 12 widths from 400mm to 2000mm
- BOE (Bottom Opposite End) Connections

TECHNICAL DRAWINGS

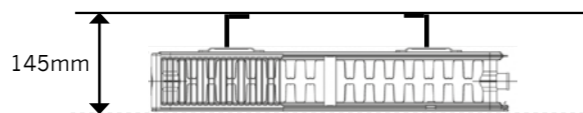


Shorter side of bracket protruding



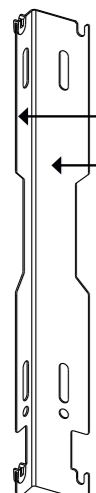
Pipe centres left to right = Width plus valves
 Pipe centres from wall = 73mm
 Depth from wall = 125mm

Longer side of bracket protruding



Pipe centres left to right = Width plus valves
 Pipe centres from wall = 93mm
 Depth from wall = 145mm

Bracket drawing



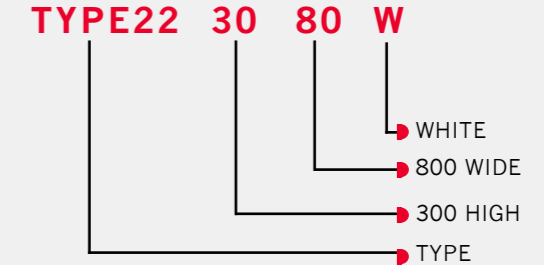
Both the short and long side can be used to hang these radiators

TYPE 22 HORIZONTAL SIZES $\Delta T50$, $\Delta T55.5$ & $\Delta T60$

RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3 ΔT 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

MODEL CODE (example)



SELECTING YOUR TYPE 22 FLAT PANEL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta T 50^\circ\text{C}$		Output $\Delta T 55.5^\circ\text{C}$		Output $\Delta T 60^\circ\text{C}$		
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's	
TYPE223080	300	800	102	14.85	758	2586	871	2972	963	3286	
TYPE223010		1000	102	18.41	948	3235	1088	3712	1205	4111	
TYPE223012		1200	102	21.91	1138	3883	1306	4456	1446	4934	
TYPE223014		1400	102	25.43	1327	4528	1524	5200	1686	5753	
TYPE223016		1600	102	29.06	1517	5176	1741	5940	1928	6578	
TYPE223018		1800	102	32.65	1706	5821	1959	6684	2168	7397	
TYPE224040	400	400	102	10.02	475	1621	545	1860	604	2061	
TYPE224060		600	102	14.74	712	2429	818	2791	905	3088	
TYPE224080		800	102	19.62	950	3241	1090	3719	1208	4122	
TYPE224090		900	102	21.9	1068	3644	1227	4187	1358	4633	
TYPE224010		1000	102	24.44	1187	4050	1363	4651	1509	5149	
TYPE224012		1200	102	29.21	1424	4859	1636	5582	1811	6179	
TYPE224014		1400	102	34.07	1662	5671	1908	6510	2113	7210	
TYPE224016		1600	102	38.72	1899	6479	2181	7442	2415	8240	
TYPE224018		1800	102	43.31	2137	7291	2454	8373	2717	9270	
TYPE224020		2000	102	48.19	2374	8100	2726	9301	3019	10301	
TYPE225040		500	400	102	12.16	566	1931	650	2218	720	2457
TYPE225060			600	102	17.76	848	2893	975	3327	1079	3682
TYPE225080	800		102	23.15	1131	3859	1299	4432	1439	4910	
TYPE225010	1000		102	28.7	1414	4825	1624	5541	1799	6138	
TYPE225012	1200		102	34.27	1697	5790	1949	6650	2159	7367	
TYPE225014	1400		102	39.77	1980	6756	2274	7759	2519	8595	
TYPE225016	1600		102	44.99	2262	7718	2599	8868	2878	9820	
TYPE225018	1800		102	50.78	2545	8684	2924	9977	3238	11048	
TYPE225020	2000		102	56.22	2828	9649	3249	11086	3598	12276	
TYPE226040	600		400	102	14.66	652	2225	750	2559	830	2832
TYPE226060			600	102	21.11	979	3340	1125	3839	1246	4251
TYPE226070			700	102	24.35	1142	3897	1312	4477	1454	4961
TYPE226080		800	102	27.66	1305	4453	1499	5115	1661	5667	
TYPE226090		900	102	30.91	1468	5009	1687	5756	1869	6377	
TYPE226010		1000	102	34.42	1631	5565	1874	6394	2076	7083	
TYPE226011		1100	102	37.65	1794	6121	2062	7036	2284	7793	
TYPE226012		1200	102	40.95	1957	6677	2249	7674	2491	8499	
TYPE226014		1400	102	47.7	2283	7790	2624	8953	2906	9915	
TYPE226016		1600	102	54.42	2610	8905	2999	10233	3323	11338	
TYPE226018		1800	102	61.14	2936	10018	3374	11512	3738	12754	
TYPE226020		2000	102	67.41	3262	11130	3749	12792	4153	14170	

If you are looking to have your Flat Panel radiator in an alternative colour we offer a select range of RAL colours, please see page 15 for more information.

TYPE 21 (P+) Vertical



TECHNICAL DATA

PRODUCT FEATURES

- Double steel flat panel
- Single convector
- 3 heights; 1600mm, 1800mm & 2000mm
- 3 widths; 400, 500mm & 600mm
- Pipework underneath connection size is R $\frac{1}{2}$ Flow and Return
- Test Pressure: 13 Bar
- Max. Operating Pressure: 10 Bar
- Max. Working Temperature: 110°C



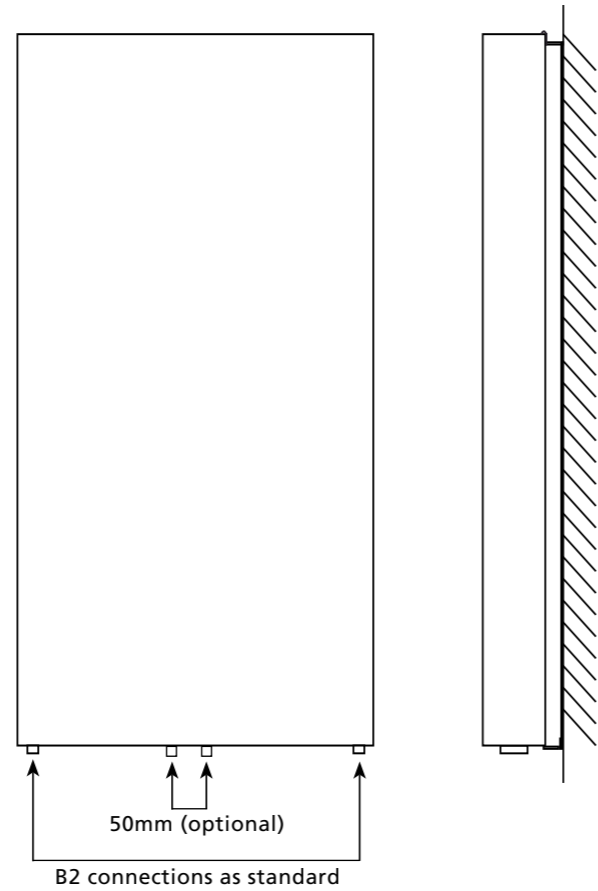
HEAT EMISSION RATES

- $\Delta T50$ (75°C / 65°C / 20°C)
- $\Delta T55.5$ (82°C / 71°C / 21°C)
- $\Delta T60$ (90°C / 70°C / 20°C)
- BS EN 442-1 conditions of $\Delta T50$

RANGE SELECTION

- 3 heights; 1600mm, 1800mm & 2000mm
- 3 widths; 400mm, 500mm & 600mm
- Underneath connections

TECHNICAL DRAWINGS



Pipe centres left to right = width minus 56mm (standard)
50mm (available on request)

Pipe centres from wall = 65mm

Depth from wall = 106mm

Vertical Brackets

Top adjustable section of the bracket



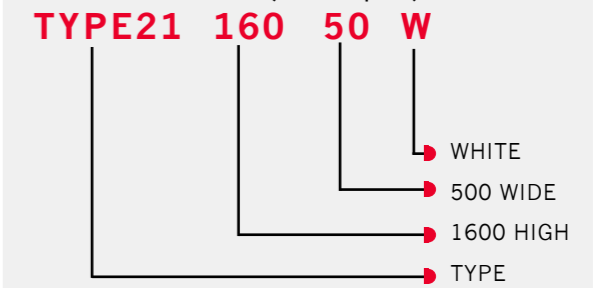
Protruding section must be at the bottom

TYPE 21 (P+) VERTICAL SIZES $\Delta T50$, $\Delta T55.5$ & $\Delta T60$

RADIATOR MODELS & CODES

- Tables below give outputs for each model height at 3 ΔT 's for easy reference.
- 1st column = model reference (see right)
- 2nd = height reference
- 3rd column = width reference
- 4th column = colour reference

MODEL CODE (example)



SELECTING YOUR TYPE 21 (P+) VERTICAL FLAT PANEL;

- Choose model, height, length, depth and output as above

Clyde Model	Dimensions (mm)			Weight (kg)	Output $\Delta T 50^\circ\text{C}$		Output $\Delta T 55.5^\circ\text{C}$		Output $\Delta T 60^\circ\text{C}$	
	Height	Width	Depth		Watts	Btu's	Watts	Btu's	Watts	Btu's
TYPE211640	1600	400	79	33.99	1128	3849	1295	4419	1434	4893
TYPE211650		500	79	42.43	1410	4811	1619	5524	1793	6118
TYPE211660		600	79	50.68	1692	5773	1943	6630	2151	7339
TYPE211840	1800	400	79	38	1231	4200	1413	4821	1563	5333
TYPE211850		500	79	47.44	1539	5251	1766	6026	1954	6667
TYPE211860		600	79	56.66	1847	6302	2119	7230	2345	8001
TYPE212040	2000	400	79	42.25	1322	4511	1516	5173	1677	5722
TYPE212050		500	79	52.75	1653	5640	1895	6466	2096	7152
TYPE212060		600	79	63	1983	6766	2274	7759	2515	8581

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INSTALLATION

PRELIMINARY

Before unpacking, please ensure that the delivered sizes and quantity are correct. Any shortages or damages must be notified to Clyde Radiators in writing within 7 days; Clyde Radiators, 13-14 Charlwoods Road, East Grinstead, West Sussex, RH19 2HU.

Unpack carefully and inspect the convector, cover and fittings, the following items should be identified;

FOR TYPE 11, 21 P(+) HORIZONTAL & 22

- 1 Radiator
- 2 x L – Brackets (3 for 1800 to 2000 wide)
- 4 x Plastic inserts (6 for 1800 to 2000 wide)
- 4 x 6x50 Screw (6 for 1800 to 2000 wide)
- 4 x Washer (6 for 1800 to 2000 wide)
- 4 x Wall plug (6 for 1800 to 2000 wide)

You will need:

- Tape Measure
- Electric drill and bits
- Suitable wall fixings
- Airvent key
- Spirit level
- Spanner for valves and vents

FOR TYPE 21 P(+) VERTICAL

- 1 Radiator
- 2 Wall Brackets
- 1 Manual Airvent
- 1 Blanking Plug

For Type 11, 21 (P+) Horizontal & 22 installation instructions please see adjacent page.

For Type 21 (P+) Vertical instructions please see page 15.

FIG 1. FLAT PANEL TYPE 11, 21, 22 BRACKET

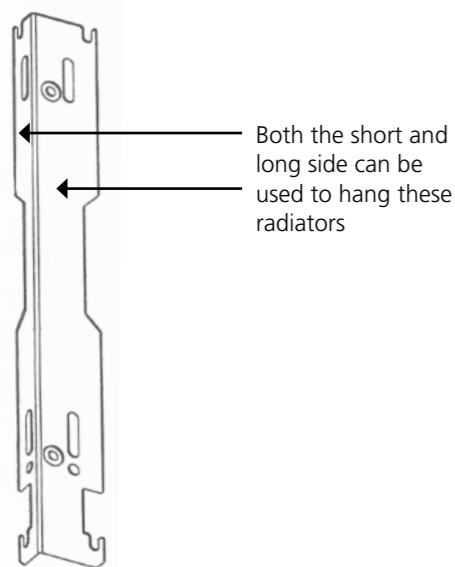
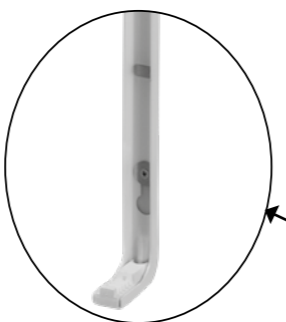
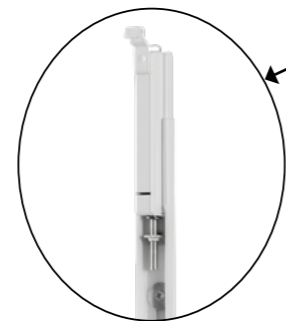


FIG 2. FLAT PANEL TYPE 21 (P+) VERTICAL BRACKETS

Top adjustable section of the bracket



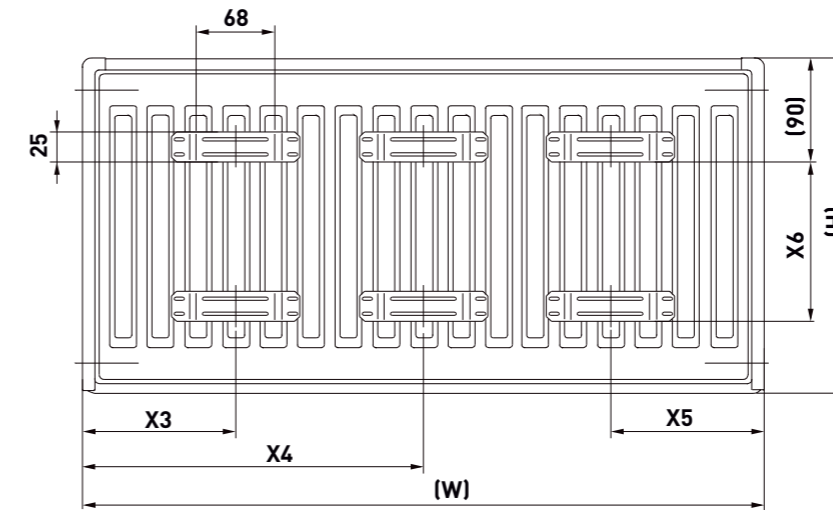
Protruding section must be at the bottom



INSTALLATION for Type 11, 21(P+) Horizontal and 22

You will see that the universal brackets supplied have a shorter and longer side. Flat Panel radiators can be hung on either side of the bracket.

Fixing Positions for Brackets



Bracket drawing

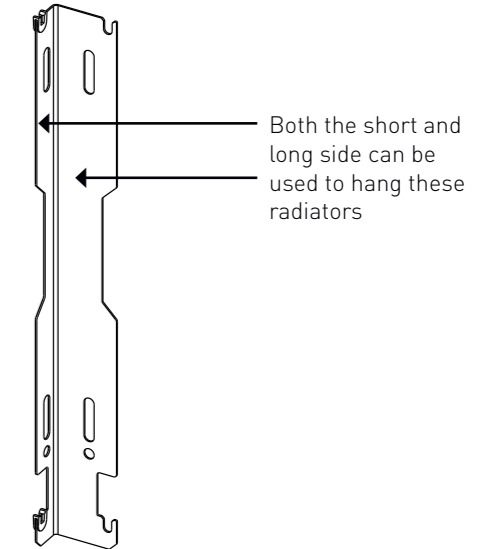
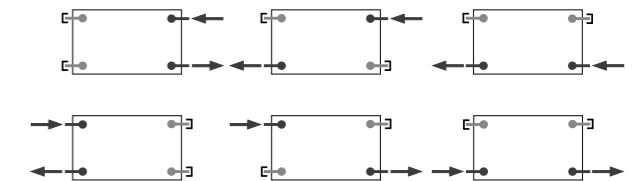


Table of Sizes

Width W (mm)		400	500-1600	1800	2000
X3 / X5	Type 11	117	150	150	150
	Type 21,22	133	133	133	133
X4	Type 11	-	-	883	983
	Type 21,22	-	-	900	1000

Height H (mm)	300	400	500	600	900
X6	145	245	345	445	745



INSTALLING RADIATOR

1. Position the radiator against the wall in the desired position. Lightly mark either side of the radiator.
2. Mark up position of brackets referring to **Fig 1** for precise measurements. Using a spirit level mark on the vertical lines on bracket positions.
3. Ascertain desired height of radiator and mark. Measure down 112mm from the desired height & mark on vertical line. This will give the position of the top fixing point of the bracket. Offer up bracket to this mark and on the vertical line mark position of lower fixing point. Repeat for other bracket(s) ensuring brackets are straight horizontally.
4. Fix brackets with suitable fixings, fit plastic inserts, hang radiator and fix pipework.

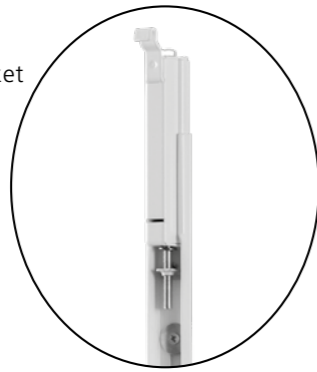
COMMISSION RADIATOR

Please Note: 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.

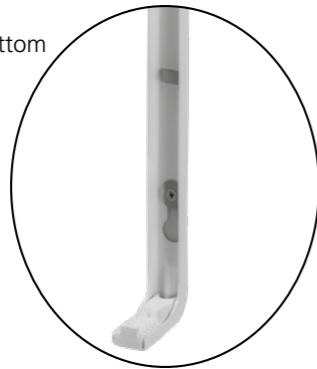
INSTALLATION for Type 21 (P+) Vertical

Vertical Brackets

Top adjustable section of the bracket



Protruding section must be at the bottom



Please note: Type 21(P+) Vertical has Underneath Valve Connections

INSTALLING RADIATOR

Radiators are supplied with 2 brackets. These brackets are fitted with protruding section at the bottom. It is important to fit the top adjustable section of the bracket before fitting to the wall.

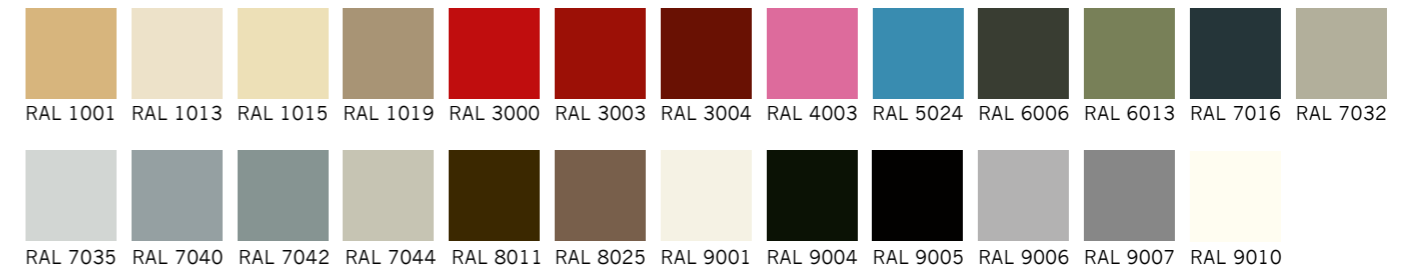
1. Position radiator against the wall in desired position. Lightly mark position of edges of radiator on the wall. Move radiator and mark 90mm inside the marks. Using a spirit level draw 2 vertical lines the height of the radiator.
2. Offer up bracket to wall at desired height (min 150mm from floor) and mark bracket fixing positions on the drawn vertical line.
3. With a spirit level mark these fixing positions across to the other line.
4. Fit adjustable top section to brackets, do not fully tighten (note: you will not be able to fit this when bracket is fixed to the wall).
5. Drill holes and fix both brackets.
6. Offer up radiator to rest on bottom section of the brackets. Adjust top of bracket to lock the bracket onto the radiator.

COMMISSION RADIATOR

Please Note: 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.

FLAT PANEL COLOUR OPTIONS

If you are looking to have your Flat Panel radiator in an alternative colour we offer 25 RAL colour options which are shown below, please specify chosen colour at time of order.



The final finish is a satin, almost matt, (30% gloss level) similar to eggshell.

To discuss a quotation for other colours outside of the above range please call 01342 305550

VALVES

Choose our AYR TRV valve to complement your flat panel.

AYR TRV

- Pipe centres allow an extra 80mm in total
- Ayr valves are not Bi-directional.
- Available in White or Chrome
- R½ x 15mm compression in angled or straight
- Supplied in pairs of one thermostatic valve & one lockshield



OTHER CLYDE PRODUCTS



COMMERCIAL HEATING SOLUTIONS

- Lightweight & Efficient Sectional Aluminum
- Sectional Cast Iron in 4 styles
- Sectional Steel Multi Column in over 3200 sizes
- 2 Bespoke LST options, made to specification
- Trench: Practical aluminium convactor for underfloor heating
- Mini: Aluminium and copper convactor, in steel casing with aluminium grille



www.clyderadiators.co.uk