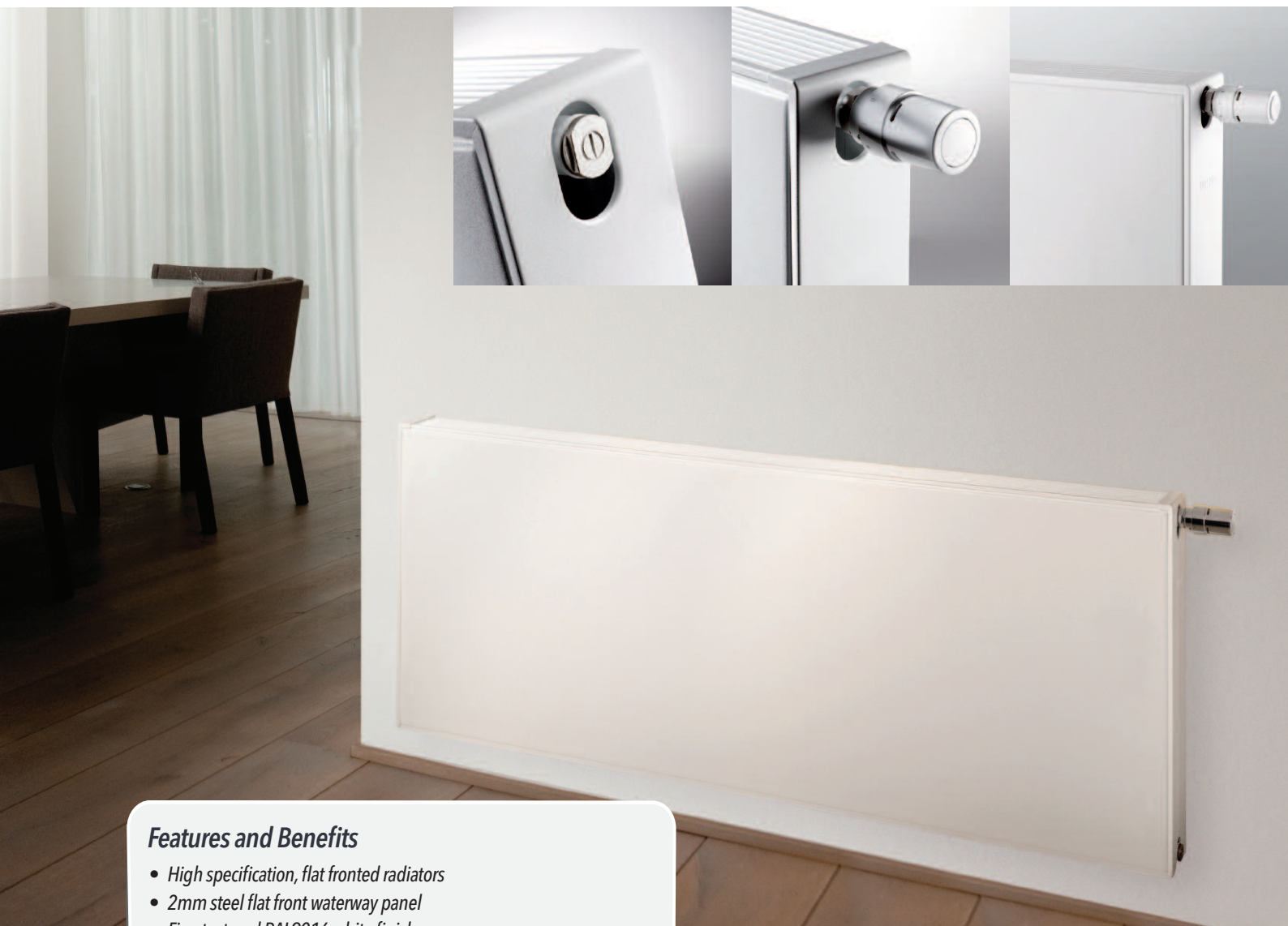




Planatherm

Smooth 2.00mm flat fronted steel, texture finished 8 connection radiators



Features and Benefits

- High specification, flat fronted radiators
- 2mm steel flat front waterway panel
- Fine textured RAL9016 white finish
- Secure mounting options via single piece brackets
- 8 connections with integrated TRV options
- Full flexibility with Variocon valve arrangement
- Compatible with low temperature heating systems
- Ten-year guarantee supplied as standard

Models: Type 21, 22 and 33

Outputs: 366 - 5,146 Watts

Maximum working pressure: 6 bar (test 7.8 bar)

Heights: 300 - 900mm

Lengths: 400 - 3,000mm

Depths: 69, 102 and 163mm



Planatherm

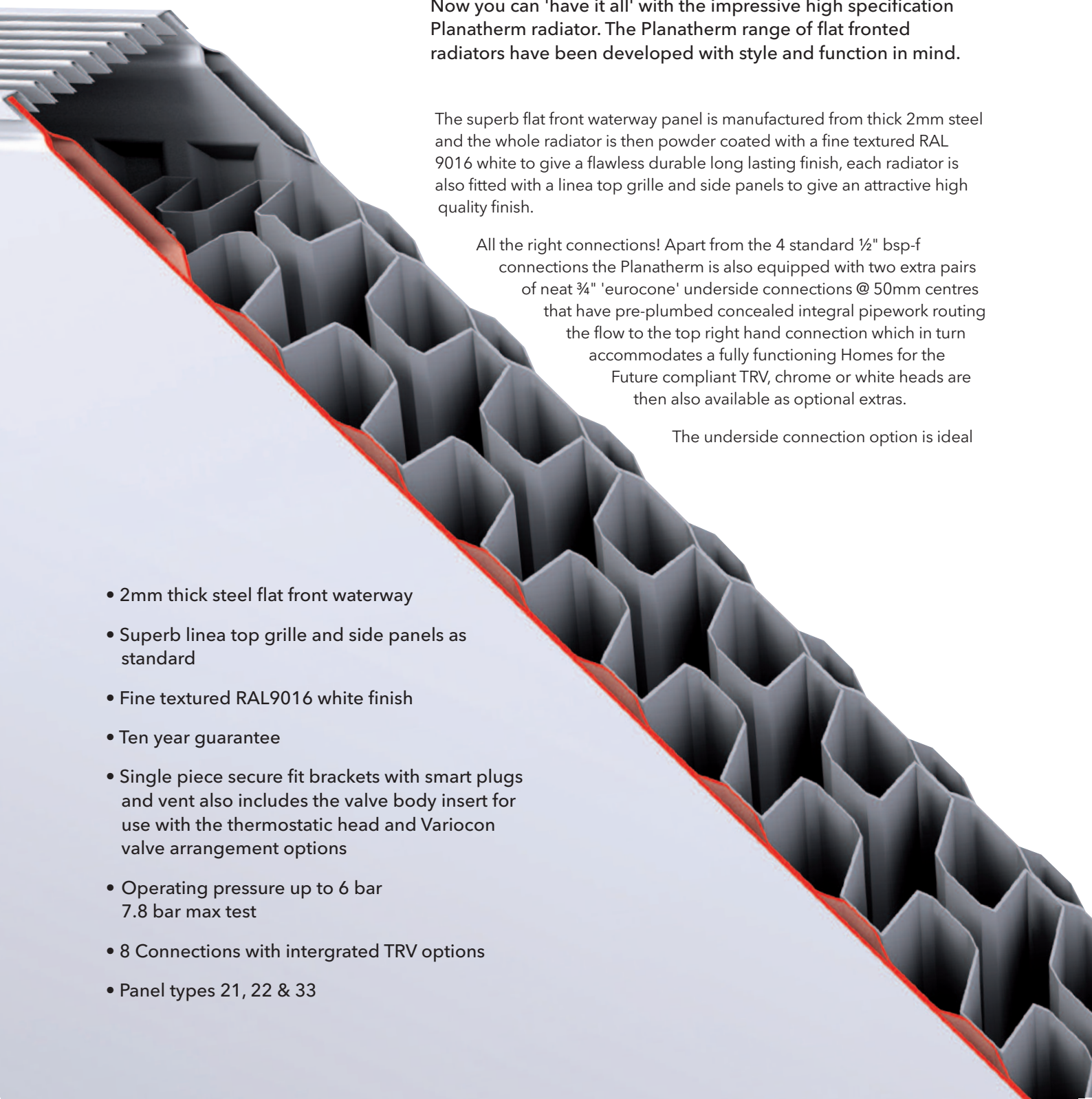
Now you can 'have it all' with the impressive high specification Planatherm radiator. The Planatherm range of flat fronted radiators have been developed with style and function in mind.

The superb flat front waterway panel is manufactured from thick 2mm steel and the whole radiator is then powder coated with a fine textured RAL 9016 white to give a flawless durable long lasting finish, each radiator is also fitted with a linea top grille and side panels to give an attractive high quality finish.

All the right connections! Apart from the 4 standard ½" bsp-f connections the Planatherm is also equipped with two extra pairs of neat ¾" 'eurocone' underside connections @ 50mm centres that have pre-plumbed concealed integral pipework routing the flow to the top right hand connection which in turn accommodates a fully functioning Homes for the Future compliant TRV, chrome or white heads are then also available as optional extras.

The underside connection option is ideal

- 2mm thick steel flat front waterway
- Superb linea top grille and side panels as standard
- Fine textured RAL9016 white finish
- Ten year guarantee
- Single piece secure fit brackets with smart plugs and vent also includes the valve body insert for use with the thermostatic head and Variocon valve arrangement options
- Operating pressure up to 6 bar
7.8 bar max test
- 8 Connections with intergrated TRV options
- Panel types 21, 22 & 33

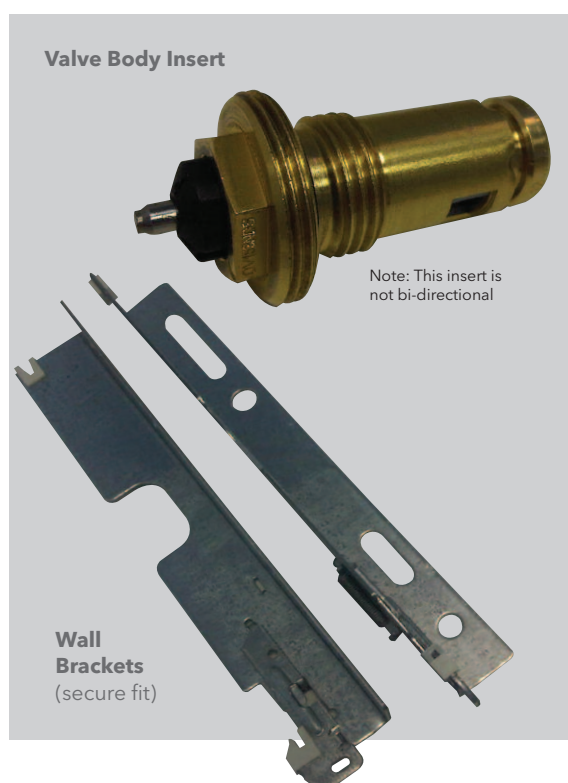


for our Simplex Variocon monoblock valve. The innovative Variocon valve is full of practical features with swivelling pipe connections for straight/angle (or somewhere in between) pipework, full system/radiator isolation/regulation on the flow and return and integrated drip free drain off facility built into every valve.

The Planatherm is available in all the sizes you would expect from such a complete range, with heights of 300/400/500/600/700 & 900mm lengths from 400 to 3000mm outputs from 366 to 5146 Watts and a choice of three panel configurations, the Planatherm makes selecting the right radiators easy.

Each Planatherm radiator is robustly packed, with the model and sizes clearly marked for easy identification. Planatherm can also be installed with its packaging mostly on to help protect it during the installation processes.

Do not expose packaging to heating temperatures above 60°C.



More quality

The high quality of the Planatherm really makes it stand out from the crowd. Its water-conducting front panel was created via revolutionary weldless production techniques, resulting in a smooth and discreet finish.

Lower energy consumption

Planatherm is compatible with all the latest low temperature heating systems, so can play a key role in ensuring savings on energy bills. Whether the heating system runs off a condensing gas boiler or heat pump, Planatherm's excellent heat emission rates maintain high levels of energy efficiency.

More warmth and comfort

The [flat] front panel of the Planatherm is in direct contact with the water channels of the radiator, enabling it to heat up quickly and efficiently.

More compact

Planatherm boasts a minimalistic, modern aesthetic that fits seamlessly into any interior.

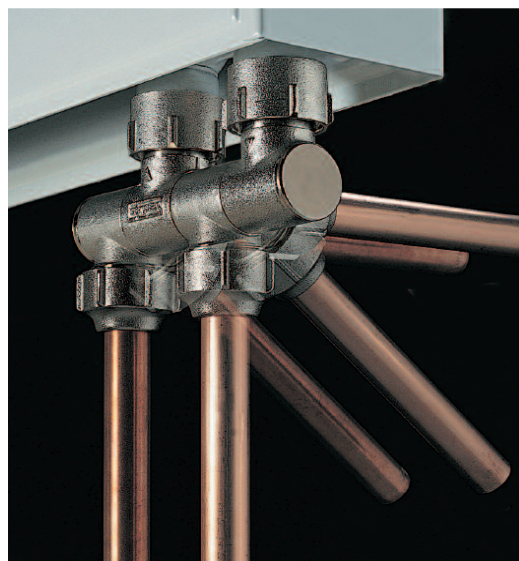


Planatherm

Variocon

Full flexibility, when you use the underside connections specify the feature packed Variocon valve arrangement. Supplied with 15mm copper connections (standard) or with 1/2" bsp steel pipe connectors if required. Note: Offsets pipework centres 25mm to the left of radiator connections.

Part NR	
VLVAR - KIT C	Complete eurocone Variocon valve for 15mm copper with white thermostatic head
VLVAR - KIT D	Complete eurocone Variocon valve for 15mm copper with chrome thermostatic head
VLVAR - KIT E	Complete eurocone Variocon valve for 1/2" steel with white thermostatic head
VLVAR - KIT F	Complete eurocone Variocon valve for 1/2" steel with chrome thermostatic head
VLVVAR - 05	Hose drain union



Planatherm Type 21 Depth 69mm						
Width mm	Height mm	400	500	600	700	900
400	Code	FL21-4004	FL21-5004	FL21-6004	FL21-7004	FL21-9004
	Output	366	440	512	581	711
600	Code	FL21-4006	FL21-5006#	FL21-6006#	FL21-7006	FL21-9006
	Output	548	661	768	871	1067
800	Code	FL21-4008	FL21-5008#	FL21-6008#	FL21-7008	FL21-9008
	Output	731	881	1024	1162	1422
1000	Code	FL21-4010	FL21-5010#	FL21-6010#	FL21-7010	FL21-9010
	Output	914	1101	1280	1452	1778
1200	Code	FL21-4012	FL21-5012#	FL21-6012#	FL21-7012	FL21-9012
	Output	1097	1321	1536	1742	2134
1400	Code	FL21-4014	FL21-5014#	FL21-6014#	-	-
	Output	1280	1541	1792	-	-
1600	Code	FL21-4016	FL21-5016#	FL21-6016#	-	-
	Output	1462	1762	2048	-	-
1800	Code	FL21-4018	FL21-5018	FL21-6018	-	-
	Output	1645	1982	2304	-	-
2000	Code	FL21-4020	FL21-5020	-	-	-
	Output	1828	2202	-	-	-
2400	Code	FL21-4024	-	-	-	-
	Output	2194	-	-	-	-
Water content litres per metre		3.52	4.18	4.85	5.53	6.90
Weight kilograms per metre		21.32	26.58	31.85	37.27	48.10

Planatherm Type 22 Depth 102mm							
Width mm	Height mm	300	400	500	600	700	900
400	Code	-	-	FL22-5004	FL22-6004	FL22-7004	FL22-9004
	Output	-	-	562	657	749	925
600	Code	-	FL22-4006	FL22-5006#	FL22-6006#	FL22-7006	FL22-9006
	Output	-	694	842	985	1123	1387
800	Code	-	FL22-4008	FL22-5008#	FL22-6008#	FL22-7008	FL22-9008
	Output	-	926	1123	1314	1498	1850
1000	Code	FL22-3010	FL22-4010	FL22-5010#	FL22-6010#	FL22-7010	FL22-9010
	Output	900	1157	1404	1642	1872	2312
1200	Code	FL22-3012	FL22-4012	FL22-5012#	FL22-6012#	FL22-7012	FL22-9012
	Output	1080	1388	1685	1970	2246	2774
1400	Code	FL22-3014	FL22-4014	FL22-5014#	FL22-6014#	FL22-7014	FL22-9014
	Output	1260	1620	1966	2299	2621	3237
1600	Code	FL22-3016	FL22-4016	FL22-5016#	FL22-6016#	FL22-7016	-
	Output	1440	1851	2246	2627	2995	-
1800	Code	FL22-3018	FL22-4018	FL22-5018#	FL22-6018#	FL22-7018	-
	Output	1620	2083	2527	2956	3370	-
2000	Code	FL22-3020	FL22-4020	FL22-5020#	FL22-6020	-	-
	Output	1800	2314	2808	3284	-	-
2200	Code	FL22-3022	FL22-4022	FL22-5022	FL22-6022	-	-
	Output	1980	2545	3089	3612	-	-
2400	Code	FL22-3024	FL22-4024	FL22-5024	FL22-6024	-	-
	Output	2160	2777	3370	3941	-	-
2600	Code	-	FL22-4026	FL22-5026		-	-
	Output	-	3008	3650		-	-
3000	Code	-	FL22-4030	-		-	-
	Output	-	3471			-	-
Water content litres per metre		3.00	3.62	4.23	4.85	5.52	6.85
Weight kilograms per metre		18.60	24.80	31.00	37.20	43.73	56.80

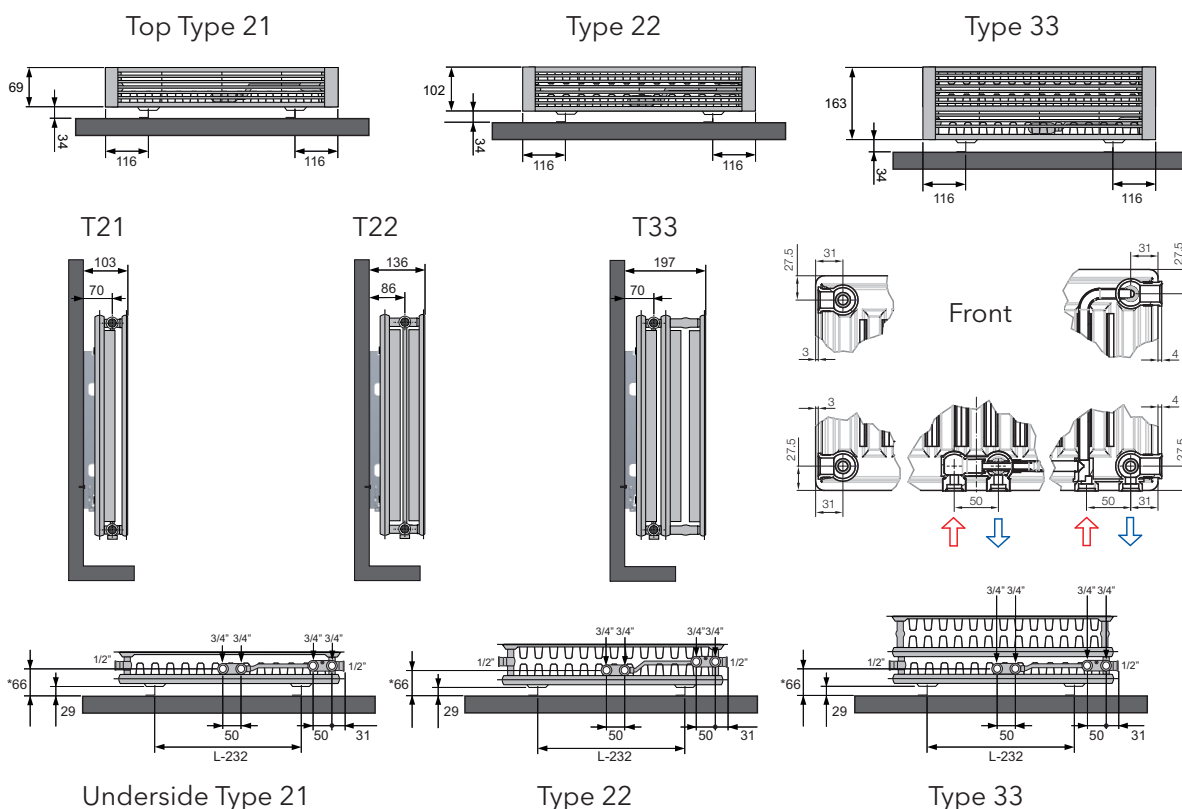
Planatherm Type 33 Depth 163mm							
Width mm	Height mm	300	400	500	600	700	900
400	Code	-	-	-	-	-	FL33-9004
	Output	-	-	-	-	-	1286
600	Code	-	-	FL33-5006	FL33-6006	FL33-7006	FL33-9006
	Output	-	-	1202	1396	1582	1930
800	Code	-	FL33-4008	FL33-5008	FL33-6008	FL33-7008	FL33-9008
	Output	-	1329	1602	1862	2110	2573
1000	Code	FL33-3010	FL33-4010	FL33-5010	FL33-6010	FL33-7010	FL33-9010
	Output	1300	1661	2003	2327	2637	3216
1200	Code	FL33-3012	FL33-4012	FL33-5012	FL33-6012	FL33-7012	FL33-9012
	Output	1560	1993	2404	2792	3164	3859
1400	Code	FL33-3014	FL33-4014	FL33-5014	FL33-6014	FL33-7014	FL33-9014
	Output	1820	2325	2804	3258	3692	4502
1600	Code	FL33-3016	FL33-4016	FL33-5016	FL33-6016	-	FL33-9016
	Output	2080	2658	3205	3723	-	5146
1800	Code	FL33-3018	FL33-4018	FL33-5018	FL33-6018	-	-
	Output	2340	2990	3605	4189	-	-
2000	Code	FL33-3020	FL33-4020	FL33-5020	FL33-6020	-	-
	Output	2600	3322	4006	4654	-	-
2200	Code	FL33-3022	FL33-4022	FL33-5022	-	-	-
	Output	2860	3654	4407	-	-	-
2400	Code	FL33-3024	FL33-4024	FL33-5024	-	-	-
	Output	3120	3986	4807	-	-	-
3000	Code	FL33-3030	FL33-4030	-	-	-	-
	Output	3900	4983	-	-	-	-
Water content litres per metre		4.65	5.53	6.42	7.30	7.80	8.80
Weight kilograms per metre		26.35	35.30	44.25	53.20	57.07	64.80

All outputs shown are at 75/65/20°C Δt50°C EN442 operating conditions.

Radiators marked with # are usually available from stock.

Standard Specification: MHS Planatherm steel radiators with flat 2.00mm front waterway panel 1.10mm thick rear panel c/w fitted side panels and linea top grille plus, valve body insert, secure fit wall mounting brackets and 8 connections. Fine textured powder coat finished to RAL 9016 white. Operating pressure to 6 bar (max test 7.8 bar) max. operating temperature up to 110°C. Manufactured in accordance with BS/EN 442.

Dimensions



NOTE: When using the underside connection groups, the flow must always be connected to the left hand connection of either pair when viewed from the front, these underside connections are 3/4" 'eurocone' type. *66mm wall to centre line dimension refers to the centre tappings only.

Δt	CF
60	1.267
59	1.24
58	1.213
57	1.186
56	1.159
55.5	1.145
55	1.132
54	1.105
53	1.079
52	1.052
51	1.026
50	1.000
45	0.872
40	0.748
35	0.629

Correction Factor Table

The outputs shown within this brochure are based on BS EN442, 75-65-20°C operating conditions, giving a Δt of 50°C, for Δt 's other than this, a correction factor must be applied.

This correction factor table assumes an averaged exponent of 1.30.

If a more accurate exponent / correction factor is required, please contact MHS Radiators.

Example: Output required @ 82-71-21°C Δt 55.5 the CF = 1.145, therefore multiply the listed output by the correction factor to give actual radiator output under these operating conditions.

Water Treatment: These products are for use on closed heating systems only; they are not suitable for installation on secondary HWS circuits. On completion of the installation the entire system MUST be thoroughly cleaned and flushed to remove debris/flux residues etc. If a chemical cleanser is used, it must be thoroughly flushed from the system. Following this, the system MUST be dosed with a good eminence water treatment to prevent corrosion. System design, flushing and dosing must be in accordance with BS 5449: 1990, BS EN 12828 & 12831: 2003 and BS 7593: 2006

IMPORTANT: Failure to observe these requirements will render the guarantee on the product void.

Corrosion inhibitor must be used in accordance with the manufacturer's instructions and recommendations and should take into account the particular metals within the system.



URS CERTIFICATE NO.75710



URS CERTIFICATE NO.07571



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