

RADIATORS



High Heat Output Maximum Efficiency

It can be adjusted to the needs of the Every radiator features two convector fins welded directly to each waterway to ensure the highest possible heat output. All radiators are pressure tested at 13 bar.

Comfort, Economy & Elegance

Residences, Schools Hospitals, Hotels... In short, everywhere



High Quality Paint Finish

All radiators are finished in white epoxy polyester powder paint(RAL9010). Additionally, special colours are available for big demands. Every radiator undergoes a multi stage pre-treatment nanoceramic zirconium coating followed by an epoxy polyester powder coating.



Wide Range

There is a wide range of panel radiators- heights range from 300 mm to 900 mm and lengths range from 400 mm to 3000 mm.

Factory Fitted Top Grill & Side Panels

All our panel radiators come complete with factory fitted top grills and side panels except Type P.

High Durability

All E.C.A. radiators are manufactured under the ISO 9001 quality system, ISO 14001 Environmental Management System, ISO 45001 Health and Safety Management System and ISO 50001 Energy Management System. Each durable radiator is fully guaranteed against all defects caused by faulty materials or manufacture.



Packaging & Easy Installation

All radiators are supplied in strong protective packaging with reinforced cardboard edges. Each radiator is bubble wrapped and then shrink wrapped with strong polystyrene. The pack is clearly marked with type and size and the installation kit is sealed inside with protective packaging. The installation kit includes all wall mounting brackets, plugs, vents and wall plugs and a vent key. Everything for easy installation is included in the pack.

E.C.A. Integrity Panel Radiators

E.C.A. Integrity is a brand new central heating panel radiator thanks to its shape providing visual integrity and its easy to open covers.

E.C.A. Integrity panel radiators facilitates your life in 'new' ways thanks to its 'brand new properties'. The trendsetting properties of the E.C.A. Integrity panel radiators provide you with a more aesthetical living space, more freedom, more economy, and perfect hygiene.

E.C.A. Integrity panel radiators can be easily cleaned thanks to their detachable covers, so that they are an ideal solution for such places as kindergartens, schools, hospitals, consulting rooms, polyclinics and restaurants where hygiene is important.

Liberty
Easy to open cover system

Integrity
Aesthetical shape providing integrity

Healthy
Advantage of cleaning thanks to its easy to open covers

E.C.A. Integrity panel radiator

Standard panel radiator

Thriftily
Its drop-shaped grill increases the air circulation and facilitates the heat transfer to save from energy costs.

E.C.A. Integrity panel radiator

Standard panel radiator

Solidity
Its drop-shaped grill ensures its body to be more durable.



Compact (6 Hole) Panel Radiators

Provide bottom entry connection to the radiators for underground pipe installations. It is proper to use with thermostatic radiator valves. Thermostatic radiator valve is used to regularise the heat level in the radiators for convenient temperature with regard to the room heating, with help of the thermostatic head they give more economic and efficient result of heating. Ventil Compact (6 Hole) radiators are produced suitable for vents to be placed on right or left side of the radiators.

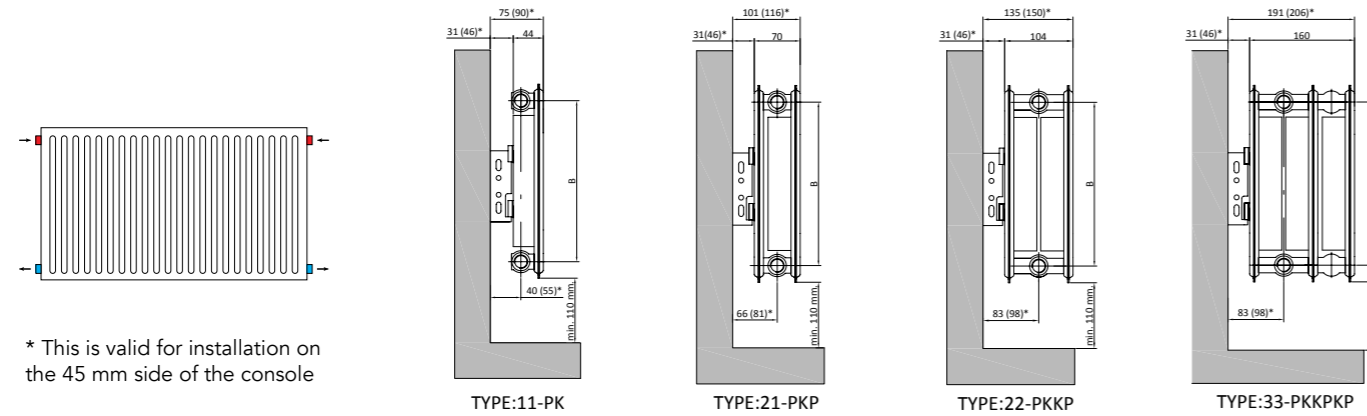


Multi Compact (8 Hole) Radiators

Connect this radiator through the lower fitting located on the right side, left side or center axis of its panel. If you use the central fitting, the panel will center the connection point. The central axis fitting will also allow you to install a thermostat core for 8 hole (middle compact) panel radiators which increase the heating capacity by 2 to 3%, so that the radiators will be able to keep the ambient temperature at a comfortable level.

Smart Panel Radiator

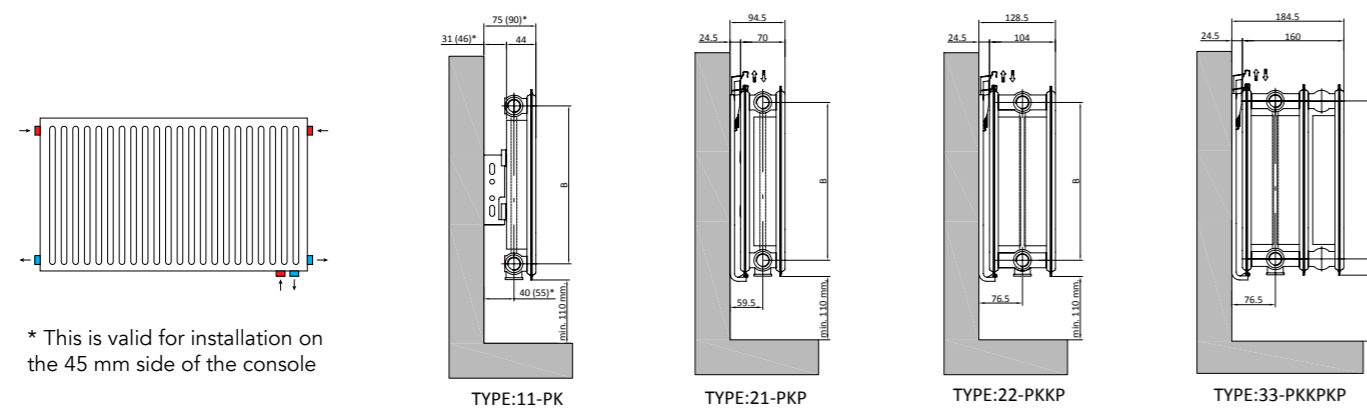
TYPE	300		400		500		600		700		800		900	
	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m
11(PK)	7,79	1,80	10,29	2,23	12,79	2,65	15,30	3,50	17,80	3,87	20,30	4,23	22,81	4,60
21(PKP)	13,16	3,40	17,35	4,15	21,54	4,90	25,72	6,40	29,91	7,07	34,10	7,73	38,29	8,40
22(PKKP)	14,60	3,40	19,28	4,33	23,96	5,25	28,63	7,10	33,31	7,67	37,99	8,23	42,67	8,80
33(PKKPKP)	21,68	5,30	28,68	6,35	35,52	7,40	42,49	9,50	49,47	10,80	56,44	12,10	63,41	13,40



Height mm	300	400	500	600	700	800	900
B mm	249	349	449	549	649	749	849
L ₁₁ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₂₁ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₂₂ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₃₃ mm	400-3000	400-3000	400-3000	400-3000	400-2400	400-2000	400-1800

Smart Compact Panel Radiator

TYPE	300		400		500		600		700		800		900	
	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m
11(PK)	8,10	1,83	10,62	2,28	13,14	2,72	15,66	3,60	18,18	3,99	20,70	4,38	23,23	4,77
21(PKP)	13,49	3,42	17,69	4,20	21,90	4,97	26,10	6,50	30,31	7,14	34,52	7,88	38,72	8,40
22(PKKP)	14,93	3,42	19,63	4,38	24,32	5,32	29,02	7,20	33,71	7,74	38,41	8,38	43,10	8,80
33(PKKPKP)	22,01	5,32	29,03	6,40	35,89	7,47	42,88	9,60	49,87	11,46	56,86	12,25	63,85	13,40



Height mm	300	400	500	600	700	800	900
B mm	249	349	449	549	649	749	849
L ₁₁ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₂₁ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₂₂ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₃₃ mm	400-3000	400-3000	400-3000	400-3000	400-2400	400-2000	400-1800

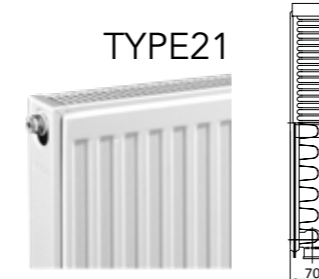
TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"

TYPE11



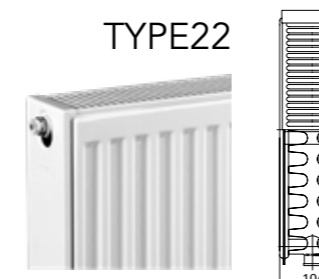
HEIGHT	ΔT 30° C		ΔT 50° C		ΔT 60° C		n	K _M
	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm		
300	245	211	476	410	604	519	1,3009	2,93617
400	321	276	625	537	793	682	1,3066	3,76649
500	392	337	767	659	974	837	1,3122	4,51985
600	460	395	901	775	1146	986	1,3179	5,19753
700	525	451	1029	885	1309	1126	1,3195	5,89863
800	586	504	1151	990	1464	1259	1,3211	6,55262
900	644	554	1265	1088	1610	1385	1,3227	7,16087

TYPE21



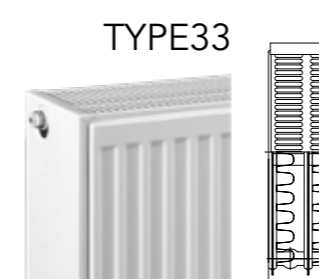
HEIGHT	ΔT 30° C		ΔT 50° C		ΔT 60° C		n	K _M
	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm		
300	377	324	732	630	928	798	1,2993	4,54169
400	480	413	932	801	1181	1015	1,2985	5,79647
500	578	497	1121	964	1420	1221	1,2978	6,99268
600	671	577	1302	1119	1649	1418	1,2970	8,14542
700	757	651	1475	1269	1872	1610	1,3060	8,91243
800	839	721	1642	1412	2087	1795	1,3149	9,58187
900	917	789	1803	1551	2296	1974	1,3239	10,15841

TYPE22



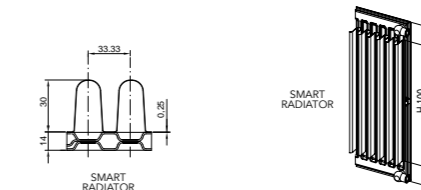
HEIGHT	ΔT 30° C		ΔT 50° C		ΔT 60° C		n	K _M
	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm		
300	468	402	923	794	1177	1012	1,3301	5,07625
400	602	517	1181	1016	1502	1292	1,3203	6,74569
500	730	627	1425	1226	1810	1556	1,3106	8,45620
600	853	734	1658	1426	2102	1807	1,3008	10,22205
700	966	831	1881	1617	2385	2051	1,3033	11,48291
800	1075	924	2094	1801	2657	2285	1,3057	12,66758
900	1179	1014	2299	1977	2919	2510	1,3082	13,77219

TYPE33



HEIGHT	ΔT 30° C		ΔT 50° C		ΔT 60° C		n	K _M
	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm		
300	663	570	1269	1092	1601	1376	1,2725	8,74023
400	839	721	1615	1388	2040	1754	1,2824	10,69625
500	1004	863	1943	1671	2459	2115	1,2923	12,38286
600	1161	998	2257	1941	2862	2461	1,3022	13,84063
700	1313	1129	2560	2201	3248	2793	1,3069	15,41166
800	1459	1255	2852	2452	3622	3115	1,3115	16,85921
900	1600	1376	3134	2695	3984	3426	1,3162	18,19457

The values given in the table are for 1000 mm products.



HEIGHT mm	Type 11			Type 21			Type 22			Type 33		
	K _M	n	W/m	K _M	n	W/m	K _M	n	W/m	K _M	n	W/m
300	2,93617	1,3009	476	4,54169	1,2993	732	5,07625	1,3301	923	8,74023	1,27253	1269
400	3,76649	1,3066	625	5,79647	1,2985	932	6,74569	1,3203	1181	10,69625	1,28242	1615
500	4,51985	1,3122	767	6,99268	1,2978	1121	8,4562	1,3106	1425	12,38286	1,29231	1943
600	5,19753	1,3179	901	8,14542	1,297	1302	10,22205	1,3008	1658	13,84063	1,3022	2257
700	5,89863	1,3195	1029	8,91243	1,306	1475	11,48291	1,3033	1881	15,41166	1,30686	2560
800	6,55262	1,3211	1151	9,58187	1,3149	1642	12,66758	1,3057	2094	16,85921	1,31152	2852
900	7,16087	1,3227	1265	10,15841	1,3239	1803	13,77219	1,3082	2299	18,19457	1,31618	3134

TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"

To calculate heat capacities at various extreme temperatures in accordance with EN 442 standard:
Standard heat capacity of a model is calculated using the following formula:

$$=K_m \cdot \Delta T^n$$

The K_M and n values shown in the table are used for calculating the capacity at various input/output water and ambient temperature.

Example:
Calculation of capacity of Type 22 600x1000 product at water temperature 80/50°C and ambient temperature 22°C:

- t₁ Input water temperature = 80 °C
- t₂ Output water temperature = 50 °C
- t_a Ambient temperature to = 22 °C
- t_{av} Average temperature = (t₁ + t₂) / 2 = (80 + 50) / 2 = 65 °C
- ΔT, Extreme temperature = t₁ - t₂ = 65 - 22 = 43 °C

Using the formula; = 10,22205 x 43^{1,3008} = 1363 W/m

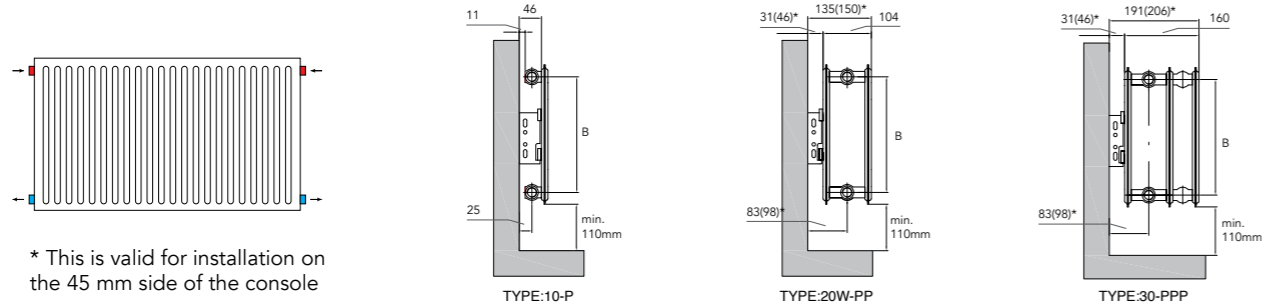


Hygienic Panel Radiators

Hygienic radiators can be produced by all dimensions of the standard product. It doesn't nestle any convector. Thereby this product can be cleaned very easily since it does not nestle the convection. This feature of the product makes it preferable in hospitals, pharmacies, health institutions, schools, kindergartens and food factories.

Hygienic Panel Radiator

TYPE	300		400		500		550		600		700		800		900	
	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m
10 (P)	6.32	1,80	8.19	2,23	10.06	2,65	10.98	3,08	11.93	3,50	13.80	3,87	15.67	4,23	17.54	4,60
20W(PP)	12.24	3,40	16.07	4,33	19.78	5,25	21.63	6,18	23.49	7,10	27.20	7,67	30.90	8,23	34.61	8,80
30(PPP)	18.26	5,30	23.94	6,35	29.48	7,40	32.26	8,45	35.03	9,50	40.58	10,80	46.13	12,10	51.68	13,40

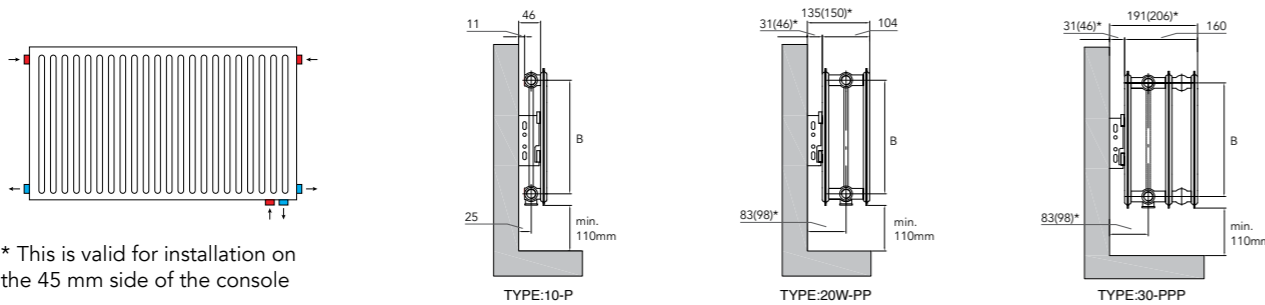


* This is valid for installation on the 45 mm side of the console

Height mm	300	400	500	550	600	700	800	900
B mm	249	349	449	500	549	649	749	849
L ₁₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₂₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₃₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-2400	400-2000	400-1800

Hygienic Compact Panel Radiator

TYPE	300		400		500		550		600		700		800		900	
	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m
10 (P)	6.58	1,83	8.45	2,28	10.29	2,72	11.24	3,17	12.19	3,60	14.06	3,99	15.93	4,38	17.80	4,77
20W(PP)	12.49	3,42	16.32	4,38	19.99	5,32	21.88	6,27	23.74	7,20	27.45	7,74	31.16	8,38	34.86	8,80
30(PPP)	18.51	5,32	24.19	6,40	29.69	7,47	32.51	8,54	35.28	9,60	40.83	11,46	46.38	12,25	51.93	13,40

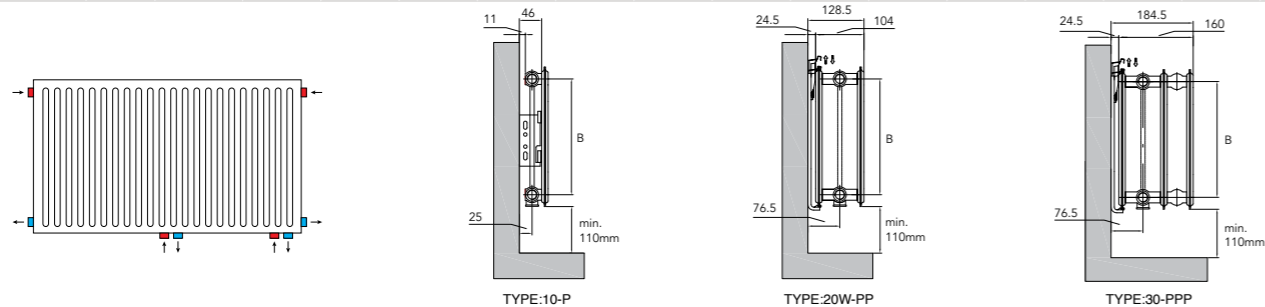


* This is valid for installation on the 45 mm side of the console

Height mm	300	400	500	550	600	700	800	900
B mm	249	349	449	500	549	649	749	849
L ₁₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₂₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₃₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-2400	400-2000	400-1800

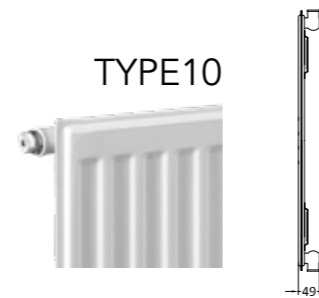
Hygienic Multi Compact Panel Radiator

TYPE	300		400		500		550		600		700		800		900	
	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m	Weight kg/m	Water Volume l/m
10 (P)	7.28	2,01	9.25	2,46	11.17	2,90	12.17	3,35	13.17	3,78	15.13	4,12	17.09	4,56	19.05	4,95
20W(PP)	13.10	3,60	17.02	4,56	20.78	5,50	22.72	6,45	24.62	7,38	28.42	7,92	32.22	8,56	36.01	8,98
30(PPP)	19.12	5,50	24.89	6,58	30.48	7,65	33.34	8,72	36.16	9,78	41.80	11,64	47.44	12,43	53.08	13,58

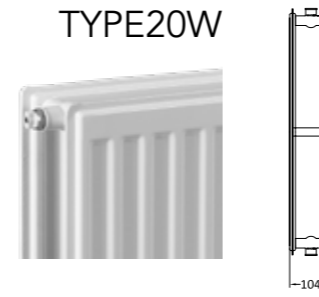


Height mm	300	400	500	550	600	700	800	900
B mm	249	349	449	500	549	649	749	849
L ₁₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₂₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000	400-3000
L ₃₀ mm	400-3000	400-3000	400-3000	400-3000	400-3000	400-2400	400-2000	400-1800

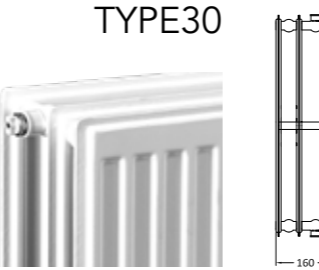
TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G 1/2"



TYPE10



TYPE20W



TYPE30

HEIGHT	ΔT 30° C		ΔT 50° C		ΔT 60° C		n	K _M
	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm		
300	185	159	352	302	442	380	1,2531	2,61303
400	234	201	444	381	557	479	1,2508	3,32613
500	282	243	534	459	670	576	1,2484	4,03979
550	306	263	579	498	726	625	1,2473	4,39983
600	330	284	624	536	783	673	1,2461	4,76309
700	376	324	714	614	897	771	1,2529	5,30873
800	423	364	805	692	1013	871	1,2597	5,82899
900	470	404	897	772	1130	972	1,2665	6,32720

HEIGHT	ΔT 30° C		ΔT 50° C		ΔT 60° C		n	K _M
	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm		
300	320	275	619	532	783	674	1,2913	3,96110
400	403	347	780	671	987	849	1,2904	5,00900
500	482	415	932	802	1179	1014	1,2895	6,00610
550	520	447	1004	863	1270	1092	1,2891	6,47910
600	557	479	1075	925	1360	1169	1,2886	6,95210
700	626	538	1212	1042	1535	1320	1,2946	7,65620
800	692	595	1344	1156	1704	1465	1,3006	8,29310
900	754	649	1470	1264	1865	1604	1,3066	8,86020

* 550 mm height obtained through calculation.

*Hygienic panel radiators do not have quality certificate.

The values given in the table are for 1000 mm products.

HEIGHT mm	Type 10			Type 20			Type 30		
	K _M	n	W/m	K _M	n	W/m	K _M	n	W/m
300	1.8585	1.3255	332	3.9611	1.2913	619	5.1328	1.3103	864
400	2.5720	1.3121	436	5.0089	1.2904	780	6.3607	1.3118	1077
500	3.3383	1.2987	537	6.0061	1.2895	932	7.5213	1.3133	1281
550	3.7425	1.2920	586	6.4791	1.2891	1004	8.0771	1.3141	1380
600	4.1468	1.2853	633	6.9521	1.2886	1075	8.6330	1.3148	1479
700	4.6503	1.2907	725	7.6562	1.2946	1212	9.7005	1.3162	1671
800	5.1057	1.2961	813	8.2931	1.3006	1344	10.7171	1.3177	1857
900	5.5093	1.3015	896	8.8602	1.3066	1470	11.7044	1.3192	2040

TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G 1/2"

To calculate heat capacities at various extreme temperatures in accordance with EN 442 standard:
Standard heat capacity of a model is calculated using the following formula:

$$=K_m \Delta T^n$$

The K_M and n values shown in the table are used for calculating the capacity at various input/output water and ambient temperature.

Example:
Calculation of capacity of Type 20W 600x1000 product at water temperature 80/50°C and ambient temperature 22°C:

t₁, Input water temperature = 80 °C
t₂, Output water temperature = 50 °C
t_a, Ambient temperature to = 22 °C
t_{av}, Average temperature = (t₁ + t₂) / 2 = (80 + 50) / 2 = 65 °C
ΔT, Extreme temperature = t₁ - t_a = 80 - 22 = 58 °C
Using the formula; = 6,9521 · 43^{1.2886} = 885 W/m



Flat Surface Panel Radiators

Flat surface panel radiators are produced with heights 300-400-500-600-700-800-900 and lengths varying from 400 mm to 2000 mm. Flat surface panel radiators get comfort and style together. Flat surfaces could be dismantled upon request and the radiator can be used as a standard radiator. One can also mount the flat surface easily to a standard radiator.



4D Panel Radiators

There are 4 different height options from 400 mm to 700 mm and 5 different length options from 600 mm to 1400 mm. 4D panel radiators will bring aesthetics and elegance to your home and office with its plane surface on all 4 sides.

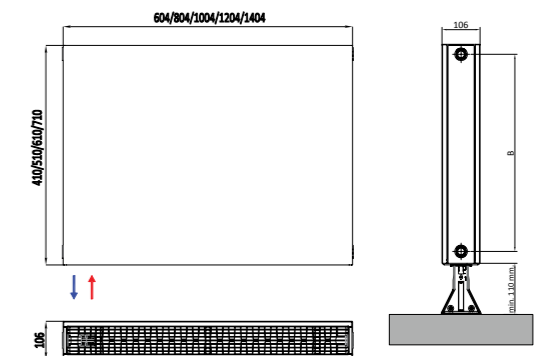


4D Panel Radiator

Height (mm)	TYPE	Width (mm)	Heat Output									Length (mm)	Manifold Gauge/B (mm)	Water Volume (lt/m)	Weight (kg/m)
			ΔT 30° C			ΔT 50° C			ΔT 60° C						
			Kcal/hm	Watt/m	Btu/m	Kcal/hm	Watt/m	Btu/m	Kcal/hm	Watt/m	Btu/m				
400	T22	106	437	508	1735	849	987	3369	1075	1250	4269	604-1404	50 & 349	4,38	25
500			525	610	2083	1019	1185	4044	1291	1501	5125	604-1404	50 & 449	5,32	38
600			647	752	2568	1256	1461	4986	1592	1851	6319	604-1404	50 & 549	7,20	45
700			690	802	2738	1339	1557	5316	1697	1973	6736	604-1404	50 & 649	7,74	52

H 600mm is derived according to thermal capacity test results.

4D panel radiators do not have quality certificate.



TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"



Cover Panel Radiators

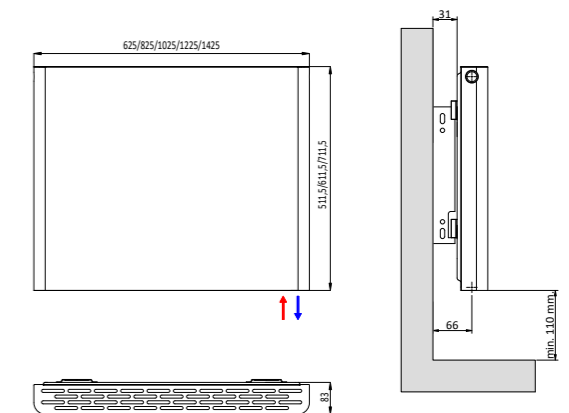
There are 3 different height options from 500 mm to 700 mm and 5 different length options from 600 mm to 1400 mm. It's compatible with thermostatic core.



Cover Panel Radiator

Height (mm)	TYPE	Width (mm)	Heat Output									Length (mm)	Manifold Gauge (mm)	Water Volume (lt/m)	Weight (kg/m)
			ΔT 30° C			ΔT 50° C			ΔT 60° C						
			Kcal/hm	Watt/m	Btu/m	Kcal/hm	Watt/m	Btu/m	Kcal/hm	Watt/m	Btu/m				
500	T21	83	403	469	1600	800	931	3177	1022	1189	4059	625-1425	50	4,97	28
600			490	570	1945	973	1131	3861	1242	1445	4932	625-1425	50	6,50	33
700			521	605	2067	1034	1202	4104	1320	1535	5241	625-1425	50	7,14	39

H 600mm is derived according to thermal capacity test results. Cover panel radiators do not have quality certificate.



TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"

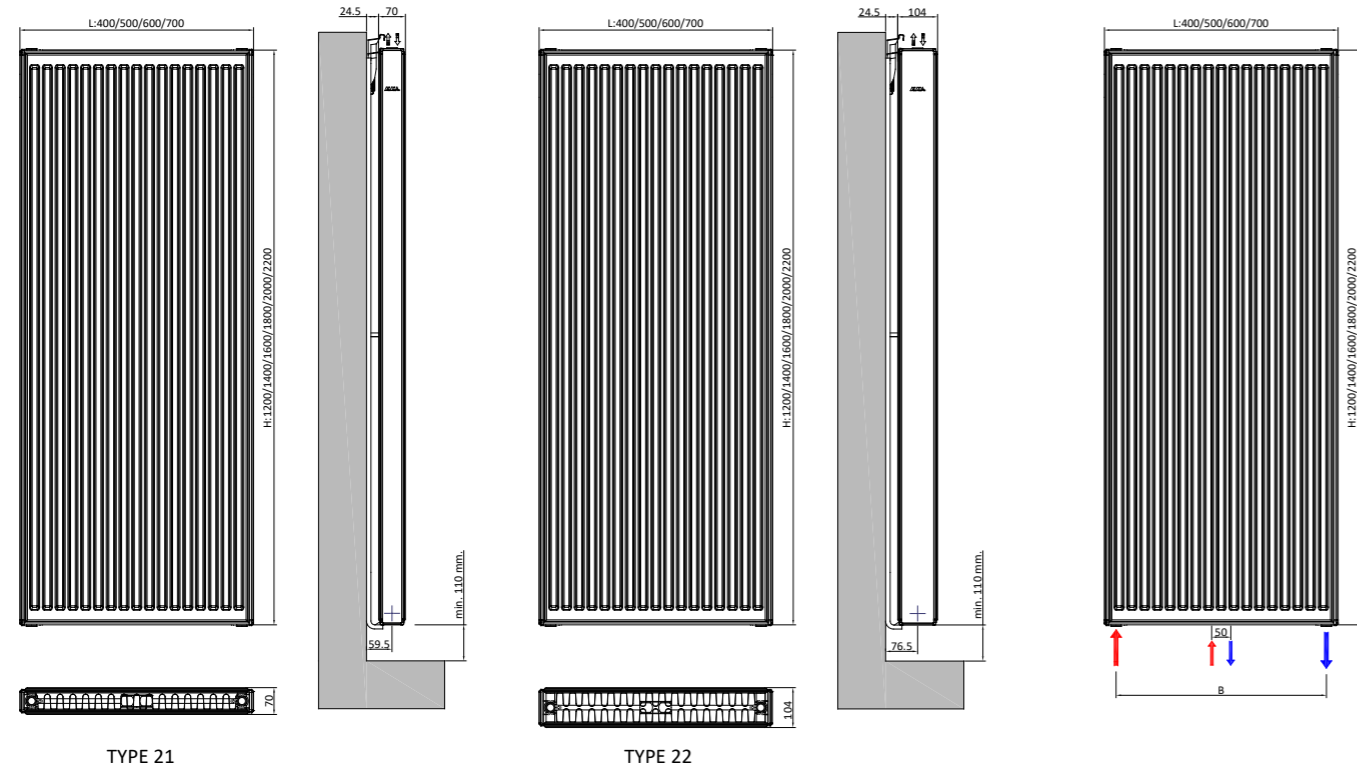


Vertical Panel Radiators

E.C.A. panel radiators which bring new good looks to our homes with its elegant design which combines technology and aesthetics bring living areas heating and aesthetics together with its vertical water channel model which has recently been added to the product range. It will make your home look elegant with the options of vertical plane surface with or without a mirror. It offers 6 height options from 1200 mm up to 2200 mm and 4 different length options from 400 mm to 700 mm. In radiators with mirrors, cracking and shattering of the mirror is prevented thanks to a special film layer.



Vertical Standard Panel Radiator



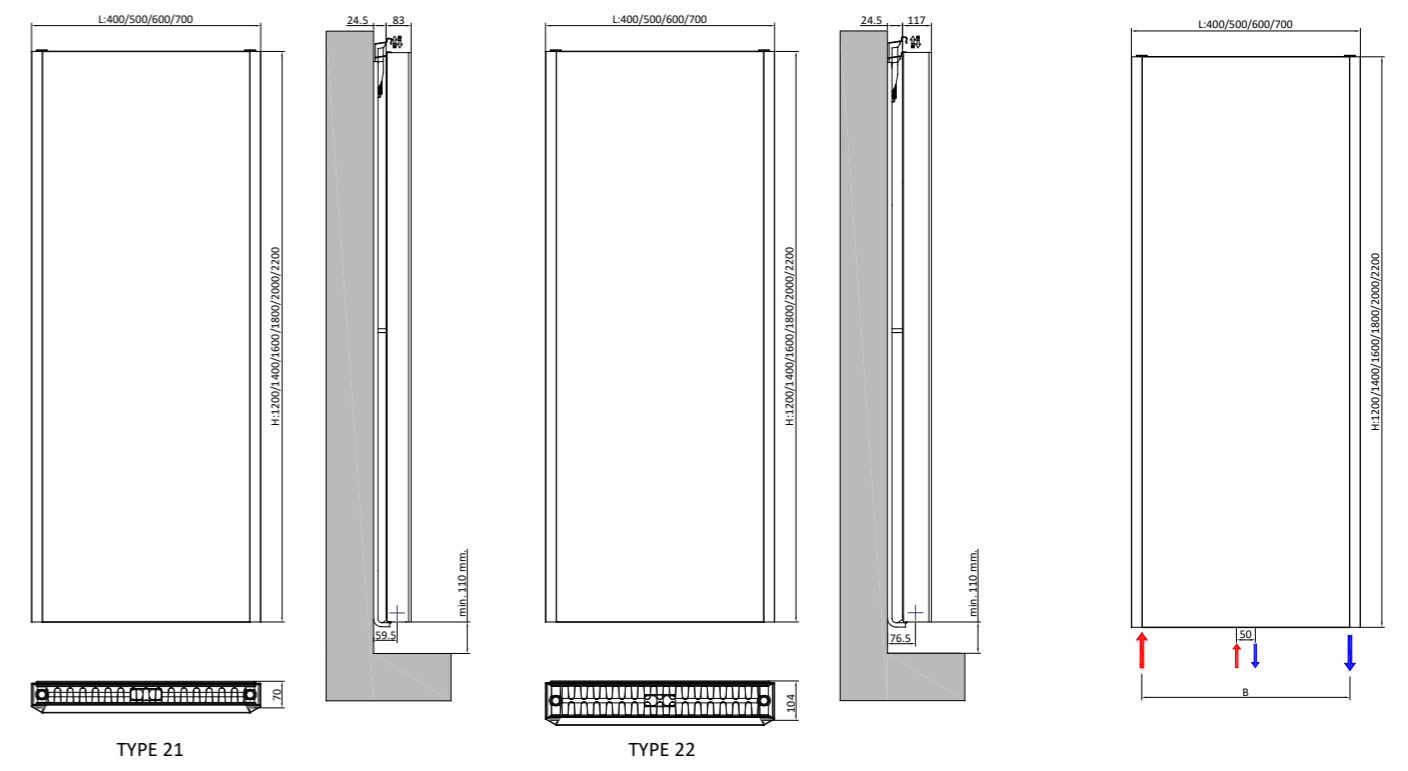
Height (mm)	TYPE	Width (mm)	Heat Output								Length (mm)	Manifold Gauge/B (mm)	Water Volume (lt)	Weight (kg)
			ΔT 30° C		ΔT 50° C		ΔT 60° C		Km	n				
			Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m						
1200	T21	70	974	1132	1975	2297	2543	2957	10,19790	1,38476	50 & L - 51	12,9	54	
1400			1097	1276	2237	2601	2884	3353	11,13330	1,39406	50 & L - 51	14,7	63	
1600			1213	1411	2485	2889	3209	3731	11,92560	1,40336	50 & L - 51	16,2	72	
1800			1349	1569	2721	3164	3495	4064	14,69820	1,37315	50 & L - 51	18	81	
2000			1478	1719	2946	3425	3767	4381	17,45640	1,34948	50 & L - 51	19,8	90	
2200			1605	1866	3160	3674	4024	4679	20,54280	1,32580	50 & L - 51	21,6	96	

Height (mm)	TYPE	Width (mm)	Heat Output								Length (mm)	Manifold Gauge/B (mm)	Water Volume (lt)	Weight (kg)
			ΔT 30° C		ΔT 50° C		ΔT 60° C		Km	n				
			Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m						
1200	T22	104	1254	1458	2490	2896	3181	3699	15,13260	1,34309	50 & L - 51	12,9	63	
1400			1381	1605	2786	3240	3580	4163	14,95290	1,37485	50 & L - 51	14,7	72	
1600			1502	1746	3081	3582	3981	4629	14,60010	1,40660	50 & L - 51	16,5	81	
1800			1716	1995	3375	3924	4296	4996	22,05870	1,32442	50 & L - 51	18	90	
2000			1867	2171	3671	4268	4673	5433	24,06690	1,32364	50 & L - 51	20,1	99	
2200			2019	2348	3969	4615	5051	5874	26,10240	1,32285	50 & L - 51	21,9	108	

TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"

The values given in the table are for 1000 mm products.

Vertical Plane Surface Panel Radiator



Height (mm)	TYPE	Width (mm)	Heat Output								Length (mm)	Manifold Gauge/B (mm)	Water Volume (lt)	Weight (kg)
			ΔT 30° C		ΔT 50° C		ΔT 60° C		Km	n				
			Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m						
1200	T21	83	835	971	1686	1960	2166	2519	9,02242	1,37550	50 & L - 51	12,9	66	
1400			931	1082	1892	2200	2437	2834	9,61376	1,38880	50 & L - 51	14,7	77	
1600			1018	1184	2083	2422	2689	3127	10,08666	1,40110	50 & L - 51	16,2	87	
1800			1113	1294	2259	2627	2909	3382	11,61522	1,38580	50 & L - 51	18	96	
2000			1206	1402	2422	2816	3106	3612	13,49581	1,36520	50 & L - 51	19,8	107	
2200			1294	1505	2571	2990	3286	3821	15,53839	1,34450	50 & L - 51	21,6	117	

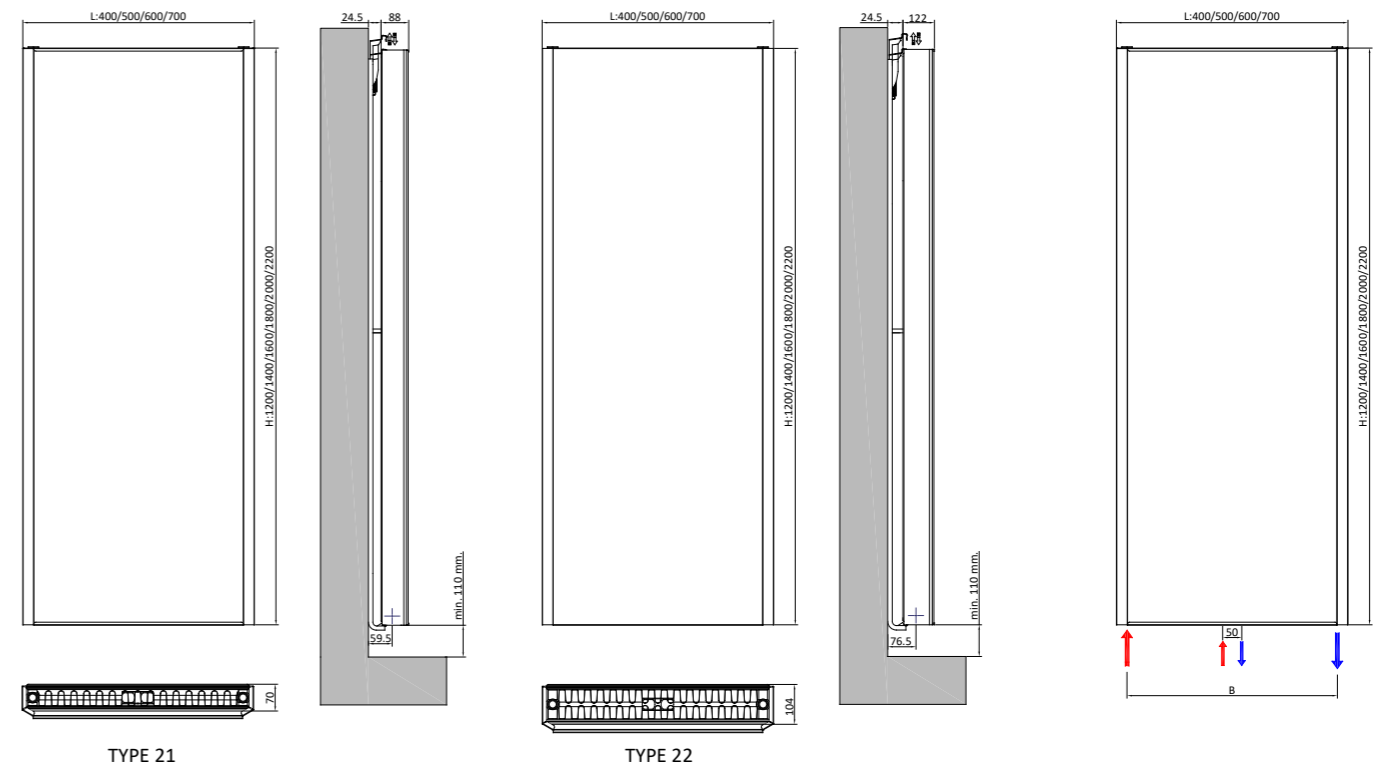
Height (mm)	TYPE	Width (mm)	Heat Output								Length (mm)	Manifold Gauge/B (mm)	Water Volume (lt)	Weight (kg)
			ΔT 30° C		ΔT 50° C		ΔT 60° C		Km	n				
			Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m						
1200	T22	117	1147	1333	2254	2621	2869	3336	14,80437	1,32320	50 & L - 51	12,9	75	
1400			1266	1472	2495	2901	3178	3696	16,08739	1,32790	50 & L - 51	14,7	86	
1600			1381	1606	2729	3173	3479	4046	17,27518	1,33260	50 & L - 51	16,5	96	
1800			1471	1710	2958	3439	3795	4413	16,31477	1,36780	50 & L - 51	18	105	
2000			1597	1857	3182	3700	4070	4732	18,85566	1,34950	50 & L - 51	20,1	117	
2200			1725	2006	3405	3959	4340	5047	21,67288	1,33120	50 & L - 51	21,9	129	

TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"

The values given in the table are for 1000 mm products.



Vertical Panel Radiator with Mirror



Height (mm)	TYPE	Width (mm)	Heat Output								Length (mm)	Manifold Gauge/B (mm)	Water Volume (lt)	Weight (kg)
			ΔT 30° C		ΔT 50° C		ΔT 60° C		Km	n				
			Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m						
1200	T21	88	835	971	1686	1960	2166	2519	9,02242	1,37550	400 - 700	50 & L -51	12,9	77
1400			931	1082	1892	2200	2437	2834	9,61376	1,38880		50 & L -51	14,7	89
1600			1018	1184	2083	2422	2689	3127	10,08666	1,40110		50 & L -51	16,2	101
1800			1113	1294	2259	2627	2909	3382	11,61522	1,38580		50 & L -51	18	112
2000			1206	1402	2422	2816	3106	3612	13,49581	1,36520		50 & L -51	19,8	124
2200			1294	1505	2571	2990	3286	3821	15,53839	1,34450		50 & L -51	21,6	137

Height (mm)	TYPE	Width (mm)	Heat Output								Length (mm)	Manifold Gauge/B (mm)	Water Volume (lt)	Weight (kg)
			ΔT 30° C		ΔT 50° C		ΔT 60° C		Km	n				
			Kcal/hm	Watt/m	Kcal/hm	Watt/m	Kcal/hm	Watt/m						
1200	T22	122	1147	1333	2254	2621	2869	3336	14,80437	1,32320	400 - 700	50 & L -51	12,9	86
1400			1266	1472	2495	2901	3178	3696	16,08739	1,32790		50 & L -51	14,7	98
1600			1381	1606	2729	3173	3479	4046	17,27518	1,33260		50 & L -51	16,5	110
1800			1471	1710	2958	3439	3795	4413	16,31477	1,36780		50 & L -51	18	121
2000			1597	1857	3182	3700	4070	4732	18,85566	1,34950		50 & L -51	20,1	135
2200			1725	2006	3405	3959	4340	5047	21,67288	1,33120		50 & L -51	21,9	149

TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G 1/2"

The values given in the table are for 1000 mm products.
Vertical Panel Radiator With Mirror do not have quality certificate.



Icon Design Panel Radiators

Icon Panel Radiators will bring delicacy to your bathroom and kitchen with its various design and colour options. Smart chrome towel rail will be pleasing to the eye as well as providing easy use.

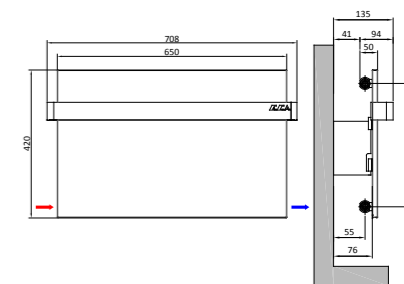


There are different colour options that will bring charm to the place they're in.

Icon Panel Radiator

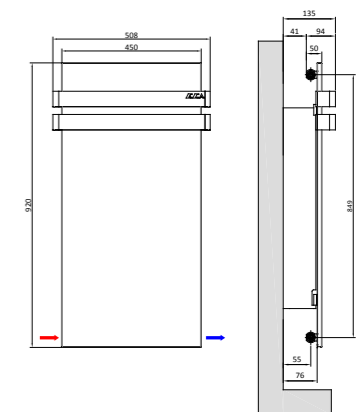
Icon Panel Radiator (400mmx600mm)	Weight (kg)	Water Volume (lt)	Heat Output						Km	n	Manifold Gauge/B (mm)
			ΔT 30° C		ΔT 50° C		ΔT 60° C				
			Kcal/h	Watt	Kcal/h	Watt	Kcal/h	Watt			
	9	1,3	113	132	212	246	265	308	2,04393	1,22477	349

The warranty for chrome towel rail is 3 years.
Icon panel radiators do not have quality certificate.



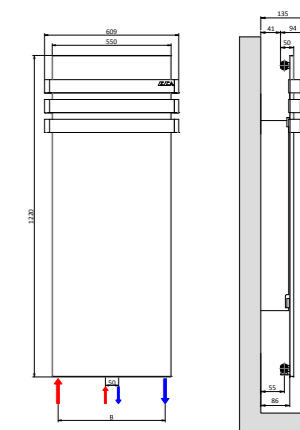
Icon Panel Radiator (900mmx400mm)	Weight (kg)	Water Volume (lt)	Heat Output						Km	n	Manifold Gauge/B (mm)
			ΔT 30° C		ΔT 50° C		ΔT 60° C				
			Kcal/h	Watt	Kcal/h	Watt	Kcal/h	Watt			
	14	1,7	167	195	314	365	393	457	2,93607	1,23306	849

The warranty for chrome towel rail is 3 years.
Icon panel radiators do not have quality certificate.



Icon Panel Radiator (1200mmx500mm)	Weight (kg)	Water Volume (lt)	Heat Output						Km	n	Manifold Gauge/B (mm)
			ΔT 30° C		ΔT 50° C		ΔT 60° C				
			Kcal/h	Watt	Kcal/h	Watt	Kcal/h	Watt			
	18	3	239	278	464	540	589	685	3,37101	1,29776	50 & 449

The warranty for chrome towel rail is 3 years.
Icon panel radiators do not have quality certificate.

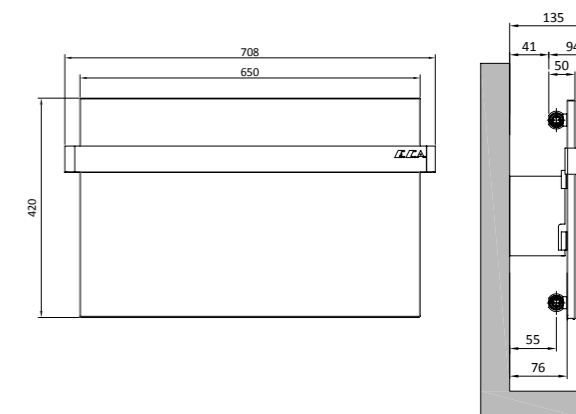


TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"

Icon Electric Panel Radiator

Icon Panel Radiator (400 mm x 600 mm)	Weight (kg)	Electrical Power (W)
	10	300

The warranty for chrome towel rail is 3 years.

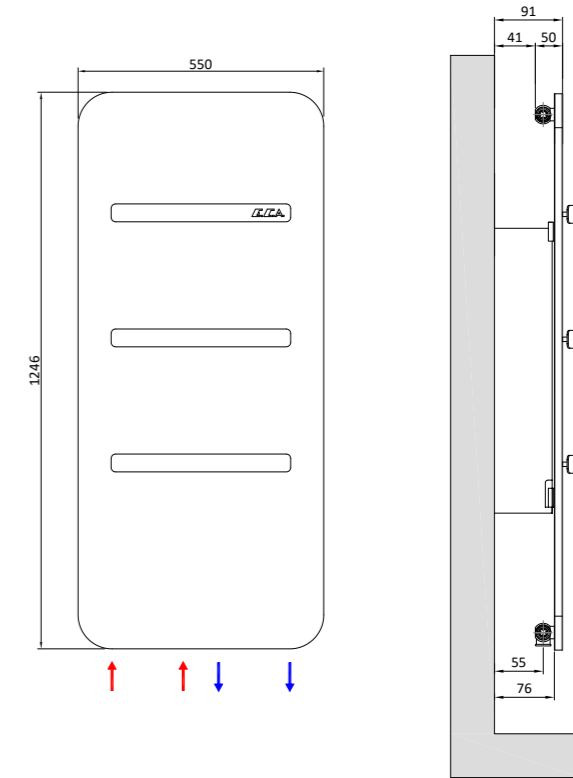


Icon electric panel radiators provide extra comfort for your living areas.



Smooth

It's slim design with rounded lines provide the perfect solution for restricted spaces such as bathrooms and kitchens.



TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"

Smooth Panel Radiator (1200mmx500mm)	Weight (kg)	Water Volume (lt)	Heat Output						Km	n	Manifold Gauge (mm)
			ΔT 30° C		ΔT 50° C		ΔT 60° C				
			Kcal/h	Watt	Kcal/h	Watt	Kcal/h	Watt			
	20	3	244	284	457	531	571	664	4,40929	1,22465	50 & 449

The warranty for chrome towel rail is 3 years.
 Smooth panel radiators do not have quality certificate.
 It provides ease of use thanks to the towel rack on the product.



X-Air Radiators

E.C.A. X-Air radiator is suited for houses and flats when you want more output from a radiator in low-temperature systems. With the integrated fans, the convection heat is distributed better throughout the entire room, and the temperature setting can be lower as a result. The integrated fans operate silently and increase the performance of the radiators with increased convection.



Fan Control

- Adjustable room temperature
- 4 different fan speed (1-2-3 boost)
- Manuel mode control
- Automatic return to fan speed 1 after 120 minutes in boost mode
- Soundless

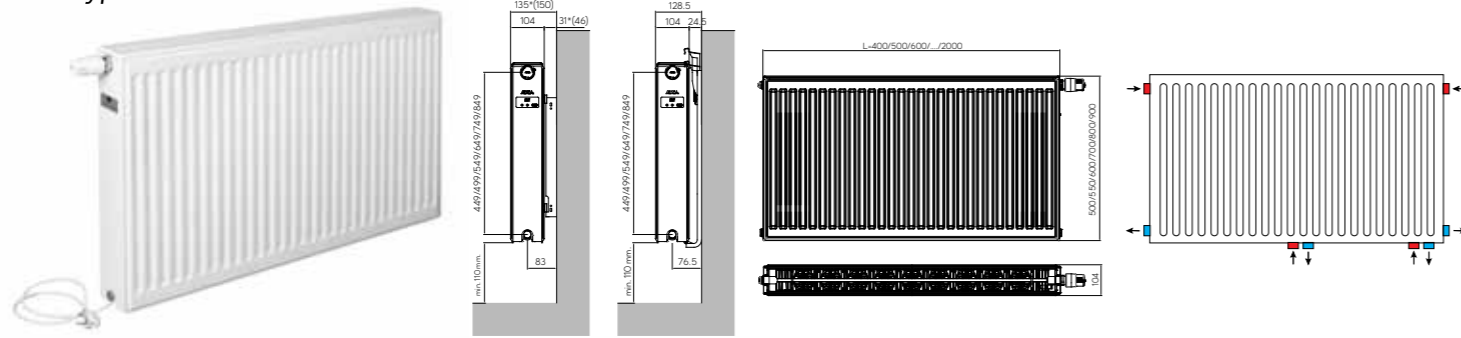
Digital Control

- Aesthetic-digital control panel
- Automatic and manuel mod
- Easy control

Sound Levels and Energy Consumption

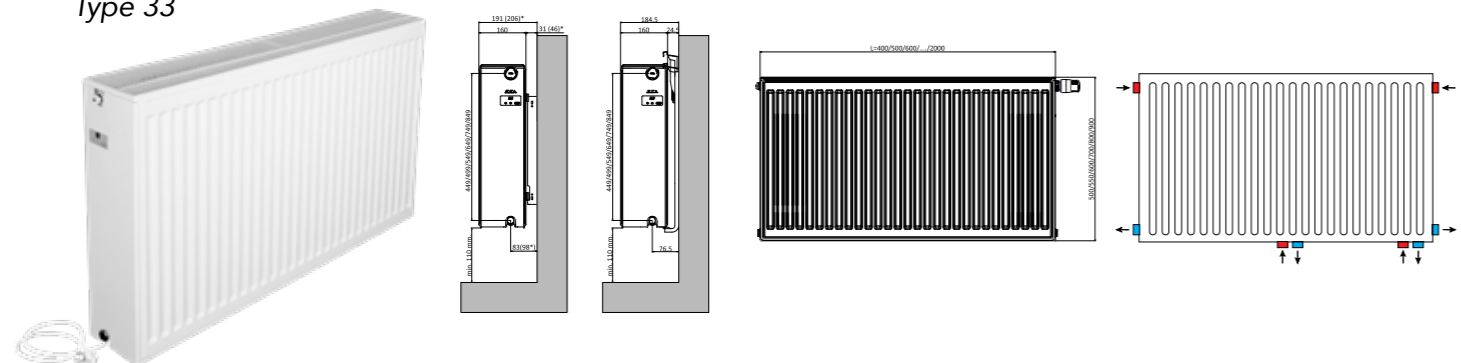
L(mm)	Static		Comfort		Boost	
	Sound Level (dB)	Energy Consumption (W)	Sound Level (dB)	Energy Consumption (W)	Sound Level (dB)	Energy Consumption (W)
600	13,7	0,6	28,3	7,6	33,4	9,1
700	14,6	0,6	29,4	9,1	34,5	10,9
800	15,5	0,6	30,4	10,7	35,6	12,8
900	16,3	0,6	31,3	12,2	36,5	14,6
1000	17,1	0,6	32,1	13,7	37,3	16,4
1100	17,8	0,6	32,9	15,2	38,1	18,2
1200	18,5	0,6	33,6	16,7	38,8	20
1300	19,2	0,6	34,3	18,3	39,5	21,9
1400	19,8	0,6	34,9	19,8	40,1	23,7
1500	20,4	0,6	35,5	21,3	40,7	25,5
1600	21	0,6	36,1	22,8	41,3	27,3
1700	21,5	0,6	36,6	24,4	41,8	29,2
1800	22,1	0,6	37,1	25,9	42,4	31
1900	22,6	0,6	37,6	27,4	42,9	32,8
2000	23,1	0,6	38,1	28,9	43,3	34,6

Standard Type 22



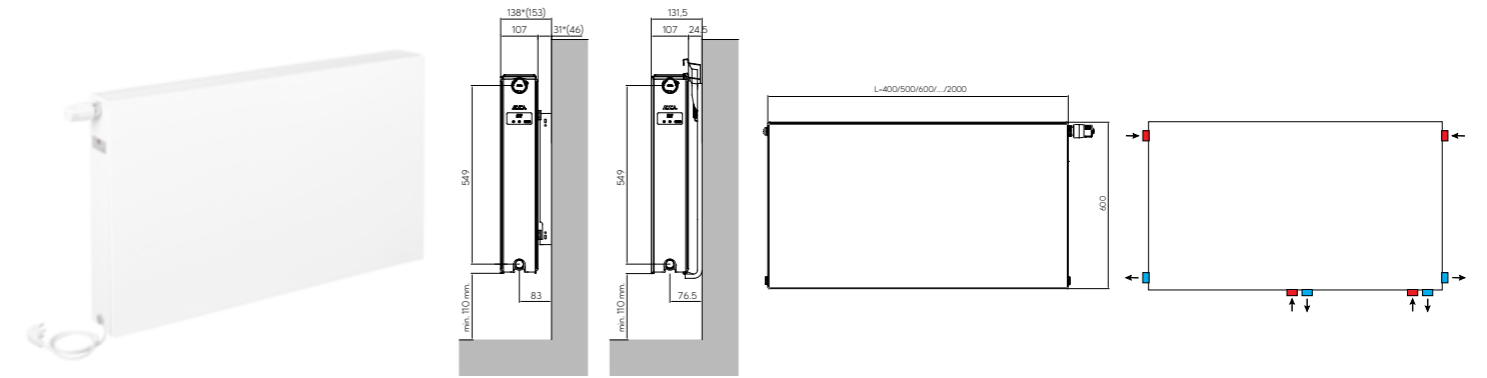
Height x Length (mm)	°C	Static Mode			Silent Comfort Mode			Silent Boost Mode			Weight (kg)	Water Volume (lt)
		(W)	Km	n	(W)	Km	n	(W)	Km	n		
500	45/35/20	411			733			807			24,95	6,3
	40/35/20	345	8,22326	1,3056	626	21,58767	1,1765	691	25,46322	1,1535		
	35/30/20	222			421			469				
550	45/35/20	447			797			878			27,95	6,83
	40/35/20	376	9,00748	1,3036	682	24,2888	1,1654	753	28,43884	1,1448		
	35/30/20	242			461			512				
600	45/35/20	483			859			945			30,95	7,35
	40/35/20	406	9,79504	1,3015	736	27,06752	1,1542	812	31,42634	1,136		
	35/30/20	262			499			554				
700	45/35/20	549			945			1042			36,95	8,4
	40/35/20	461	10,86047	1,3093	809	28,72453	1,1662	894	33,75045	1,1449		
	35/30/20	297			546			608				
800	45/35/20	610			1016			1120			42,95	9,45
	40/35/20	512	11,80211	1,3172	868	29,76365	1,1783	960	35,3301	1,1539		
	35/30/20	329			584			651				
900	45/35/20	670			1071			1180			48,95	10,5
	40/35/20	561	12,64769	1,325	914	30,28547	1,1903	1011	36,24307	1,1628		
	35/30/20	359			612			683				

Type 33



Height x Length (mm)	°C	Static Mode			Silent Comfort Mode			Silent Boost Mode			Weight (kg)	Water Volume (lt)
		(W)	Km	n	(W)	Km	n	(W)	Km	n		
500	45/35/20	571			777			824			37,3	9,45
	40/35/20	479	11,00675	1,3184	655	17,05026	1,2747	698	20,35814	1,2352		
	35/30/20	307			427			461				
550	45/35/20	617			836			880			44,45	11,15
	40/35/20	517	11,69072	1,3241	706	18,36097	1,2748	745	21,28996	1,2422		
	35/30/20	331			459			491				
600	45/35/20	662			896			935			51,6	12,85
	40/35/20	554	12,32367	1,3298	755	19,654	1,2749	791	22,15898	1,2492		
	35/30/20	354			492			520				
700	45/35/20	747			1012			1044			56,78	13,92
	40/35/20	625	13,44831	1,3411	854	22,19796	1,2751	882	23,73383	1,2631		
	35/30/20	398			556			577				
800	45/35/20	838			1133			1168			61,95	14,99
	40/35/20	701	15,18043	1,339	956	25,21224	1,2701	987	26,65142	1,262		
	35/30/20	447			623			646				
900	45/35/20	927			1252			1296			67,13	16,06
	40/35/20	775	16,89151	1,3369	1058	28,31123	1,265	1095	29,6595	1,2608		
	35/30/20	494			691			716				

TEST PRESSURE MAXIMUM 13 Bar	OPERATING PRESSURE MAXIMUM 10 Bar	OPERATING TEMPERATURE 70° C	CONNECTION DIMENSION G ½"
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Flat Type 22

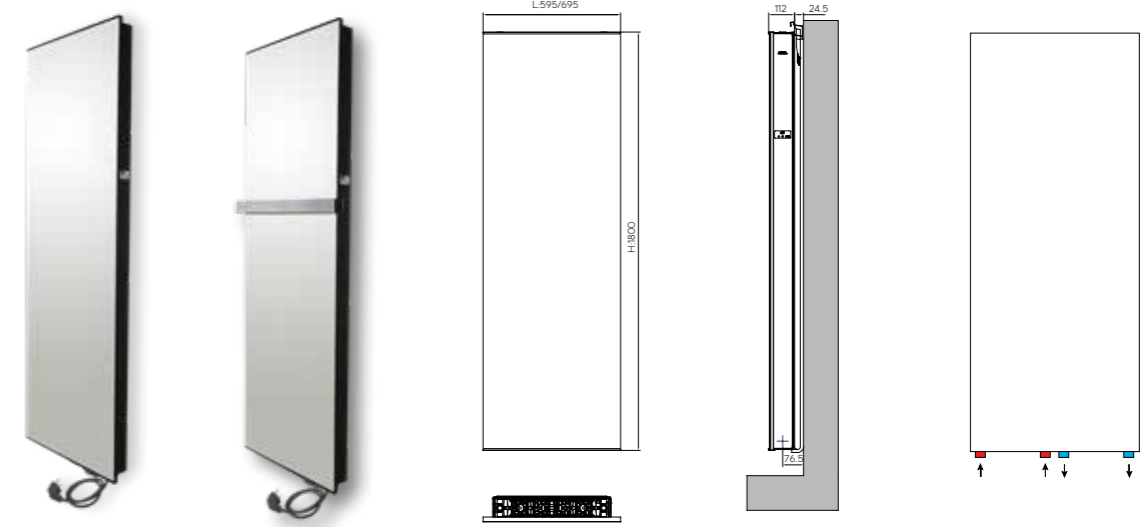
Height x Length (mm)	°C	Static Mode			Silent Comfort Mode			Silent Boost Mode			Weight (kg)	Water Volume (lt)
		(W)	Km	n	(W)	Km	n	(W)	Km	n		
600	45/35/20	454			822			898			35,35	7,35
	40/35/20	382	9,22488	1,3006	705	25,94675	1,1536	770	29,06051	1,1451		
	35/30/20	246			478			524				

TEST PRESSURE MAXIMUM 13 Bar	OPERATING PRESSURE MAXIMUM 10 Bar	OPERATING TEMPERATURE 70° C	CONNECTION DIMENSION G ½"
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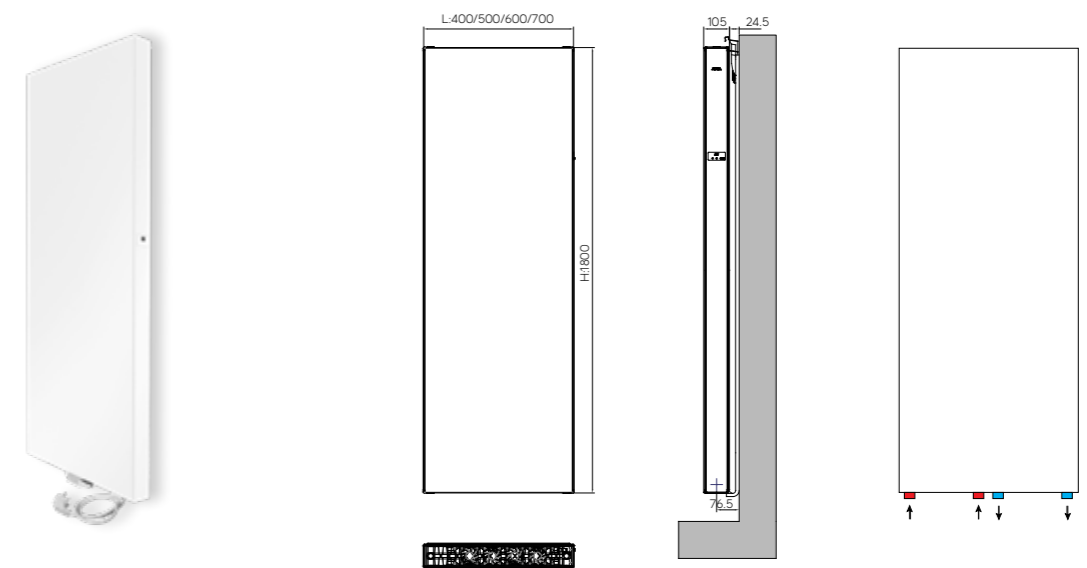
Vertical with Mirror



Towel hanger is optional.

Height x Length (mm)	°C	Static Mode			Silent Comfort Mode			Silent Boost Mode			Water Volume (lt)	Weight (kg)	Manifold Gauge/B (mm)
		(W)	Km	n	(W)	Km	n	(W)	Km	n			
1800 x 500	45/35/20	408			739			788			9	59,6	50 & L-51
	40/35/20	336	5,27195	1,4517	629	20,42326	1,1977	672	22,35552	1,1891			
	35/30/20	206			421			451					
1800 x 600	45/35/20	490			886			945			10,8	71,5	50 & L-51
	40/35/20	403	6,32634	1,4517	755	24,507912	1,1977	807	26,826624	1,1891			
	35/30/20	247			505			541					

Vertical



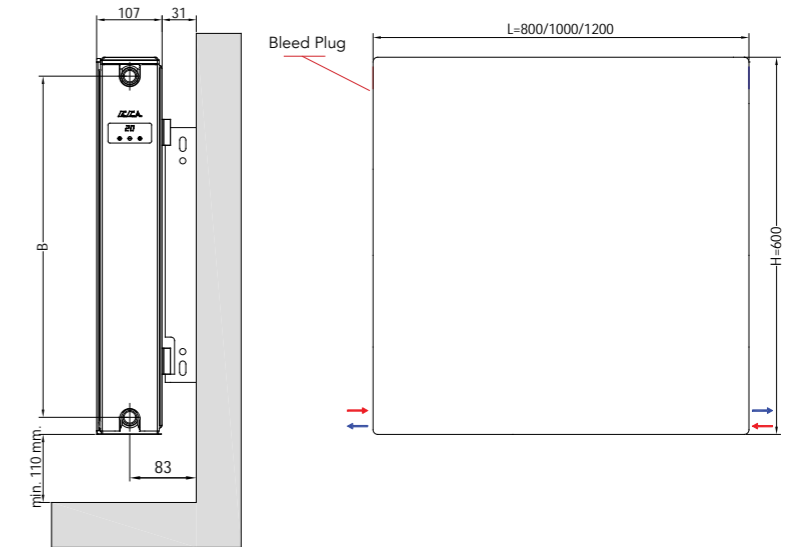
Height x Length (mm)	°C	Static Mode			Silent Comfort Mode			Silent Boost Mode			Water Volume (lt)	Weight (kg)	Manifold Gauge/B (mm)
		(W)	Km	n	(W)	Km	n	(W)	Km	n			
1800 x 500	45/35/20	408			739			788			9	51,6	50 & L-51
	40/35/20	336	5,27195	1,4517	629	20,42326	1,1977	672	22,35552	1,1891			
	35/30/20	206			421			451					
1800 x 600	45/35/20	490			886			945			10,8	61,9	50 & L-51
	40/35/20	403	6,32634	1,4517	755	24,507912	1,1977	807	26,826624	1,1891			
	35/30/20	247			505			541					

TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	70° C	G ½"



Hybrid

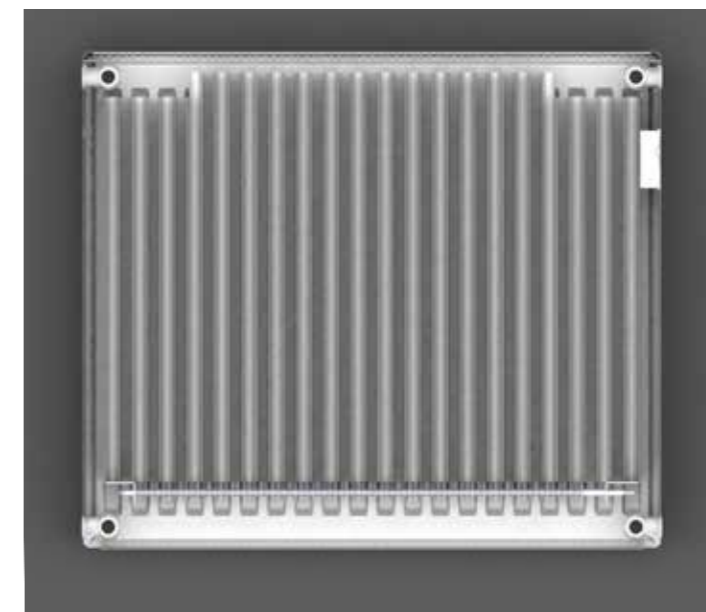
There are 3 different length options from 800 mm to 1200 mm.
 Hybrid panel radiators also operate electrically and conventionally at the same time.



You can set the temperature with aesthetical digital display.

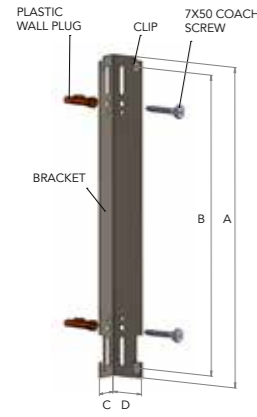
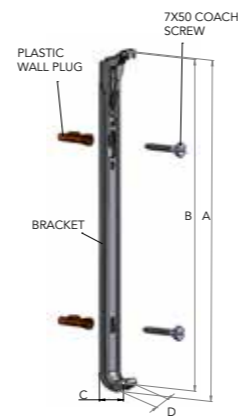
Height (mm)	Type	Length (mm)	Weight (kg)	Water Volume (lt)	Electrical Power (W)	Manifold Gauge/B (mm)
600	T22	800	30	5,7	1300	549
		1000	37	7,1	1700	
		1200	44	8,5	2000	

TEST PRESSURE MAXIMUM	OPERATING PRESSURE MAXIMUM	OPERATING TEMPERATURE	CONNECTION DIMENSION
13 Bar	10 Bar	120° C	G ½"



Installation Kit

Height	300 mm	400 mm	500 mm	550 mm	600 mm	700 mm	800 mm	900 mm
A mm	110	210	310	360	410	510	610	710
B mm	85	185	285	335	385	485	585	685
C mm	30	30	30	30	30	30	30	30
D mm	45	45	45	45	45	45	45	45



Height	300 mm	400 mm	500 mm	600 mm	700 mm	800 mm	900 mm
A mm	309	409	509	609	709	809	909
B mm	298	398	498	598	698	798	898
C mm	33.5	33.5	33.5	33.5	33.5	33.5	33.5
D mm	32	32	32	32	32	32	32

- Compatible with PKP, PP, PKKP, PPP and PKKPKP types
- Allows radiator mounting in areas with french windows
- High corrosion resistance
- Compliant with European norms
- High durability



Consoles



For Vertical Radiators



Accessories



Color Chart

Crocodile 9010	Crocodile 9005	Crocodile 1013	RAL 9010	RAL 9016	Metallic Red
PE55QC5987103CMX	PE55QC6215103CMX	PE55QC1301103CMX	PE55Q+33030102CMX	PE55QC7762103CMX	Metallic Black
PE55Q+1778101CMX	PE55QC7048103CMX	PE55QC1035103CMX	PE58QC4011189GLX	PE55QC7715103CMX	PE55QC17949102CMX
PE55Q+1779101CMX	PE58Q+1700187HRX	PE55QC7148103CMX	PE58QC5025189GLX	PE55Q+6779101CMX	PE55Q+5570103CMX
PE55Q+8355103CMX	PE55Q+8870103CMX	PE55Q+8880103CMX	PE55Q+8860103CMX	PE55Q+1775101CMX	PE58QC5026189GLX



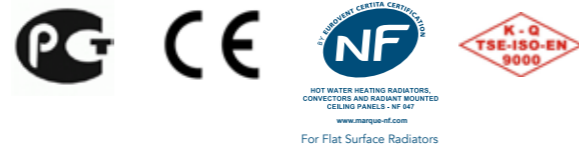
CAST IRON RADIATORS



Cast Iron Radiators



- Manufactured with superior and quality considerations.
- Long lasting.
- High thermal efficiency.
- Ensure maintaining of temperature for longer periods.
- Resistant to corrosion.
- Leakproof through intermediate joints.
- Specially designed edges and corners and resistance to impact.
- All our flat surface cast iron radiators have the NF 137 certification.
- Standard Applicable TS EN 442
- RAL7038, RAL9003 and RAL9010 primer paint can be applied for all type of radiators.



Column Cast Iron Radiators



Curtain Column Cast Iron Radiators

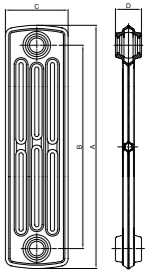


Flat Surface Cast Iron Radiators

Technical Specifications

COLUMN CAST IRON RADIATORS

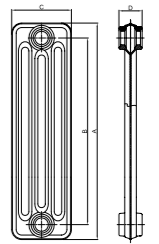
Types	Single Section								Thermal Efficiencies					
	Dimensions				Connection Dimension	Heating Surface	Water Volume	Weight	ΔT=50°C		ΔT=30°C		Average Water Temperature (°C)	
	A	B	C	D					watt	kcal/h	watt	kcal/h	70°C	80°C
144/200	300	200	144	60	1 1/4"	0,101	0,52	3,43	47,3	40,7	26,1	22,4	46,42	57,56
144/350	447	350	144	60	1 1/4"	0,150	0,65	4,85	67,2	57,8	34,9	30,0	66,50	84,35
144/500	598	500	144	60	1 1/4"	0,210	0,95	5,64	88,3	75,9	45,4	39,0	86,10	109,55
144/600	700	600	144	60	1 1/4"	0,251	0,95	6,25	106,5	91,6	57,4	49,4	104,47	130,69
144/650	748	650	144	60	1 1/4"	0,260	1,10	7,10	104,9	90,2	52,2	44,9	104,90	134,86
144/800	898	800	144	60	1 1/4"	0,320	1,20	8,60	127,4	109,5	64,0	55,0	121,00	155,25
221/350	420	350	221	60	1 1/4"	0,230	1,00	7,11	96,5	83,0	49,4	42,5	94,20	119,49
221/500	598	500	221	60	1 1/4"	0,320	1,30	8,58	126,5	108,8	64,2	55,2	123,80	157,50
221/600	700	600	221	60	1 1/4"	0,374	1,27	9,10	156,9	134,9	83,1	71,5	153,78	193,60
221/800	898	800	221	60	1 1/4"	0,480	1,80	12,69	182,4	156,8	91,8	78,9	179,70	230,26



144-500

CURTAIN CAST IRON RADIATORS

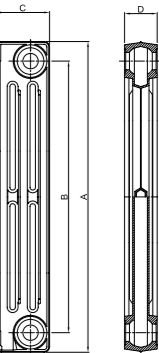
Types	Single Section								Thermal Efficiencies					
	Dimensions				Connection Dimension	Heating Surface	Water Volume	Weight	ΔT=50°C		ΔT=30°C		Average Water Temperature (°C)	
	A	B	C	D					watt	kcal/h	watt	kcal/h	70°C	80°C
70/500	580	500	70	60	1 1/4"	0,120	0,48	3,43	52,5	45,1	26,9	23,1	52,50	66,44
160/350	430	350	160	60	1 1/4"	0,185	0,80	4,81	73,3	63,0	37,7	32,4	72,30	92,23
160/500	580	500	160	60	1 1/4"	0,255	1,10	5,98	94,4	81,2	48,3	41,5	95,40	121,71
160/900	980	900	160	60	1 1/4"	0,440	1,50	9,86	146,9	126,3	73,5	63,2	142,60	182,46



160-500

FLAT SURFACE CAST IRON RADIATORS

Types	Single Section								Thermal Efficiencies					
	Dimensions				Connection Dimension	Heating Surface	Water Volume	Weight	ΔT=50°C		ΔT=30°C		Average Water Temperature (°C)	
	A	B	C	D					watt	kcal/h	watt	kcal/h	70°C	80°C
99/350	420	350	99	60	1"	0,145	0,61	3,65	61,1	52,5	31,4	27,0	58,50	74,21
99/500 S	570	500	99	60	1"	0,200	0,75	4,84	79,1	68,0	40,7	35,0	78,20	99,25
99/623	693	623	99	60	1"	0,240	0,80	5,90	93,2	80,1	47,9	41,2	91,20	115,75
99/623 S	686	623	92	60	1"	0,238	0,82	4,97	88,3	75,9	45,69	39,3	86,56	109,86
99/623NEW	694	623	92	60	1"	0,240	0,82	5,50	88,7	76,3	45,7	39,4	86,60	109,90
99/813	883	813	99	60	1"	0,310	1,00	8,00	114,0	98,0	58,7	50,5	111,50	142,13
134/350	420	350	134	60	1"	0,185	0,78	4,60	76,5	65,8	38,8	33,4	73,20	92,95
134/500	570	500	134	60	1"	0,240	0,88	6,21	99,3	85,4	50,3	43,3	97,30	123,72
134/623	693	623	134	60	1"	0,310	1,09	6,81	118,0	101,5	59,7	51,3	115,50	147,32
134/813	883	813	134	60	1"	0,400	1,32	10,66	146,0	123,7	73,7	63,4	143,90	184,85



99/500

OPERATING AND TEST CONDITIONS FOR CAST IRON RADIATORS

Heater Installation Type	Max. Operating Pressure*		Max. Operating Temperatures	Test Pressures (Cold Water) bar
	Bar	mSS		
Hot Water or Steam	9	92	120	12-14

*Each section is tested as single and assembled under a pressure of 12-14 bars twice

Notes:



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