

KORADO®

RADIK® KLASIK



Steel panel radiators





KEY FEATURES AND BENEFITS

- 10 year warranty •
- guaranteed to last •
- high quality finish •
- pressure tested to 13 bar •
- low water content – high efficiency •
- quality packaging protecting all corners and edges •
- ISO 9001:2008 guarantee of quality of products and services •

General information

KLASIK radiators are made in one of the most modern factories in Europe in a 30 000 sq metre purpose built factory, and are currently delivered to 35 countries worldwide.

Customer satisfaction is our main driver and that aim influences the goals and plans for the whole of KORADO. One of Europe's most comprehensive ranges of panel, decorative and towel radiators provides a total heating package to the UK market.

KORADO KLASIK panel radiator range is available in types 11, 21, 22. Stock sizes include five heights - 300, 400, 500, 600, 900 - and a wide range of lengths from 400 mm up to 3000 mm.

Basic configuration

KORADO KLASIK radiators have two upper and lower hangers welded on the back. Radiators 1800 mm long and over have three pairs.

All radiators have top grills and end panels factory fitted. Also radiators are supplied with an air vent and blanking plug with fitted O rings, all tapings are 1/2" BSP internal thread.

Guarantees and Quality

Korado products are manufactured to the highest standards, using only the best materials with quality control at all levels of production under the quality standard ISO 9001: 2000. Heat outputs have been tested and approved to EN 442.




The manufacturer guarantees that the product is leak proof and guarantees stated heat output of RADIK steel panel radiators connected to the hot-water systems for 10 years from the date of sale. The manufacturer accepts no responsibility for deformation or damage of the radiators caused during their transport, handling, or storage. The guarantee does not apply to mechanical or other damages caused by unqualified installation of the radiators.

Packaging

KORADO packaging is very strong and gives the radiator total protection. It consists of corrugated cardboard, and poly-ethylene shrink wrap. Complete protection of the corners is guaranteed by reinforced plastic covers which are placed on the radiator before the shrink wrap is applied.

Radiators can be fully fitted before packaging is removed to preserve the quality and finish until hand over.

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442 (DELTA T 50)

20 °C		Type 11 Width: 63 mm					Type 21 Width: 66 mm					Type 22 Width: 100 mm				
																
Height H [mm]		300 (12")	400 (16")	500 (20")	600 (24")	900 (35")	300 (12")	400 (16")	500 (20")	600 (24")	900 (35")	300 (12")	400 (16")	500 (20")	600 (24")	900 (35")
Length L [mm]	Length L [inch]	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h	(W) Btu/h
400	16			343 1171	401 1368	558 1903			447 1524	515 1758	702 2394		486 1660	581 1982	672 2291	925 3157
500	20	275 937	354 1208	429 1464	501 1709	697 2378			559 1906	644 2197	877 2992	483 1648	608 2074	726 2477	840 2864	1157 3946
600	24	329 1124	425 1449	515 1756	601 2051	836 2854			670 2287	773 2637	1052 3591	580 1978	730 2489	871 2973	1007 3437	1388 4735
700	28	384 1311	496 1691	601 2079	701 2393	976 3329			782 2668	902 3076	1228 4189	676 2307	851 2904	1016 3468	1175 4010	1619 5524
800	31	439 1499	566 1933	686 2342	802 2735	1115 3805	596 2034	750 2558	894 3049	1030 3516	1403 4788	773 2637	973 3319	1162 3963	1343 4583	1850 6314
900	35	494 1686	637 2174	772 2635	902 3077	1255 4281	671 2288	843 2877	1005 3430	1159 3955	1579 5386	869 2966	1094 3734	1307 4459	1511 5156	2082 7103
1000	39	549 1873	708 2416	858 2927	1002 3419	1394 4756	745 2542	937 3197	1117 3811	1288 4395	1754 5985	966 3296	1216 4149	1452 4954	1679 5729	2313 7892
1100	43	604 2061	779 2657	944 3220	1102 3761	1533 5232	820 2796	1031 3517	1229 4192	1417 4834	1929 6583	1063 3626	1338 4564	1597 5450	1847 6302	2544 8681
1200	47	659 2248	850 2899	1030 3513	1202 4103	1673 5708	894 3050	1124 3836	1340 4573	1546 5274	2105 7182	1159 3955	1459 4979	1742 5945	2015 6874	2776 9470
1400	55	769 2622	991 3382	1201 4098	1403 4786	1952 6659	1043 3559	1312 4476	1564 5336	1803 6153	2456 8379	1352 4614	1702 5809	2033 6936	2351 8020	3238 11049
1600	63	878 2997	1133 3865	1373 4684	1603 5470	2230 7610	1192 4067	1499 5115	1787 6098	2061 7031	2806 9575	1546 5274	1946 6638	2323 7927	2686 9166	3701 12627
1800	71	988 3372	1274 4348	1544 5269	1804 6154		1341 4575	1687 5755	2011 6860	2318 7910		1739 5933	2189 7468	2614 8918	3022 10312	
2000	79	1098 3746	1416 4831	1716 5855	2004 6838		1490 5084	1874 6394	2234 7622	2576 8789		1932 6592	2432 8298	2904 9908	3358 11457	
2300	91			1973 6733	2305 7863							2222 7581	2797 9543	3340 11395	3862 13176	
2600	102			2231 7611	2605 8889							2512 8570	3162 10787	3775 12881	4365 14895	
3000	118			2574 8782	3006 10256							2898 9888	3648 12447	4356 14863	5037 17186	

Standard heat output [W/m]	549	708	858	1002	1394	745	937	1117	1288	1754	966	1216	1452	1679	2313			
Temp. exponent n [-]	1,3156	1,3140	1,3123	1,3107	1,3206	1,3197	1,3238	1,3278	1,3319	1,3578	1,3297	1,3316	1,3334	1,3353	1,3574			
K _r	c ₀		0,01407200			1,34220000			0,03399300			1,35050000			0,05120200		1,34380000	
b	c ₁		0,94200000			-0,00004407			0,83090000			-0,00002395			0,80550000		-0,00000514	
Radiator weight [kg/m]	10,1	12,5	15,7	18,8	28,3	14,3	18,8	22,1	26,4	40,2	17,0	22,7	25,7	31,1	47,1			
Water volume [l/m]	1,9	2,3	2,7	3,1	4,3	3,7	4,4	5,1	5,8	8,3	3,7	4,4	5,1	5,8	8,4			
Flow coefficient A _r [m ²]	6,5 x 10 ⁻⁵ (DN 15)					1,0 x 10 ⁻⁴ (DN 15)					1,0 x 10 ⁻⁴ (DN 15)							
Resistance coefficient ξ _r [-]	19,0 (DN 15)					8,5 (DN 15)					8,5 (DN 15)							

Characteristic equation: $\Phi = K_r \cdot H^b \cdot \Delta T^{(c_0 + c_1 \cdot H)}$

Conversion information

The outputs quoted in this publication are based on a Delta T 50. To calculate other operating conditions, the following example should be applied:

EXAMPLE:

Add flow water temperature (75 °C) and the return water temperature (65 °C) together (140 °C), divide by two (70 °C) and then subtract the room temperature (20 °C).

This will give you a Delta T factor 50.



RADIK® KLASIK

3 Stage finish



3. **2.** **1.**

- 1.** Degreasing and phosphating
- 2.** Cataphoresis paint
- 3.** Epoxy-polyester powder

Every radiator undergoes a multi stage pre-treatment process which includes degreasing, phosphating, and rinsing in three stages. Then KTL paint is applied which is vital for the long life span of the radiator. The final finish is completed by an oven baked epoxy-polyester powder coat in white.

The surface finishing of the radiators is carried out with maximum attention given to the highest quality of finish.

The finish guarantees:

- Long - term corrosion resistance
- Mechanical durability
- Long term attractive appearance

Table of sizes

Type	11	21	22
X1	69 / 48	77 / 56	94 / 73
X2	101 / 80	110 / 89	144 / 123

Producer

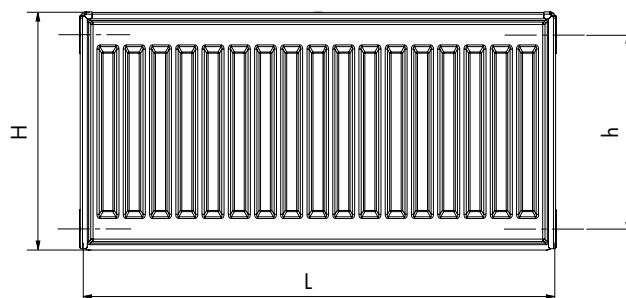
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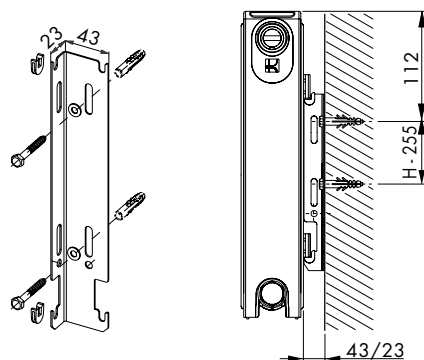
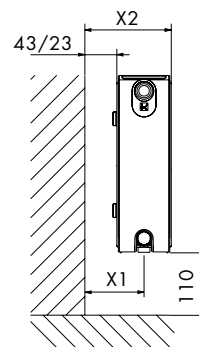
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Technical Data



Height H	300, 400, 500, 600, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Connecting pitch	h = H - 54 mm
Connecting thread	4 x G1/2 inside
Maximum working pressure	10 bar
Maximum working temperature	110 °C
Radiator connection	left or right side

Position of radiator



Distributor

