

# RADIK PREMIUM



## Description

The model **RADIK PREMIUM** is a vertically aligned radiator. The dimensions of this model make it ideal for use in tight or atypical rooms. Its design enables it **to be connected primarily from the middle bottom or side bottom** to a pressurised heating system. Alternatively, you can also use its top middle and top side connections. There are no hangers welded on the back side therefore the radiator is supplied with special brackets, guaranteeing an easy, fast and safe mounting. Apart from type 10, all other radiator types come fitted with side covers. To select the mounting brackets, use the table on [page 41](#).

For the middle bottom connection to the heating system, we recommend using the integrated HM valve, supplied with a thermostatic head.

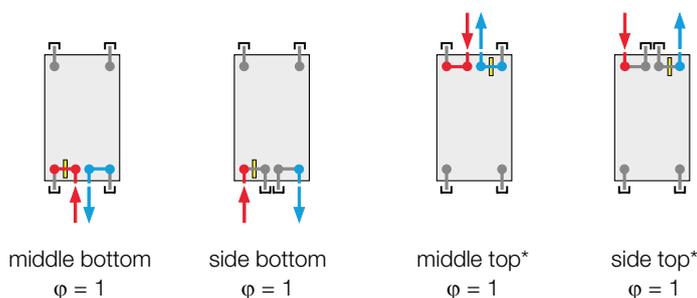


For the alternative top connection, a valve with a thermostatic head with remote control (separate sensor) must be used so that the thermostatic head is not directly influenced by the radiator.

## Technical data

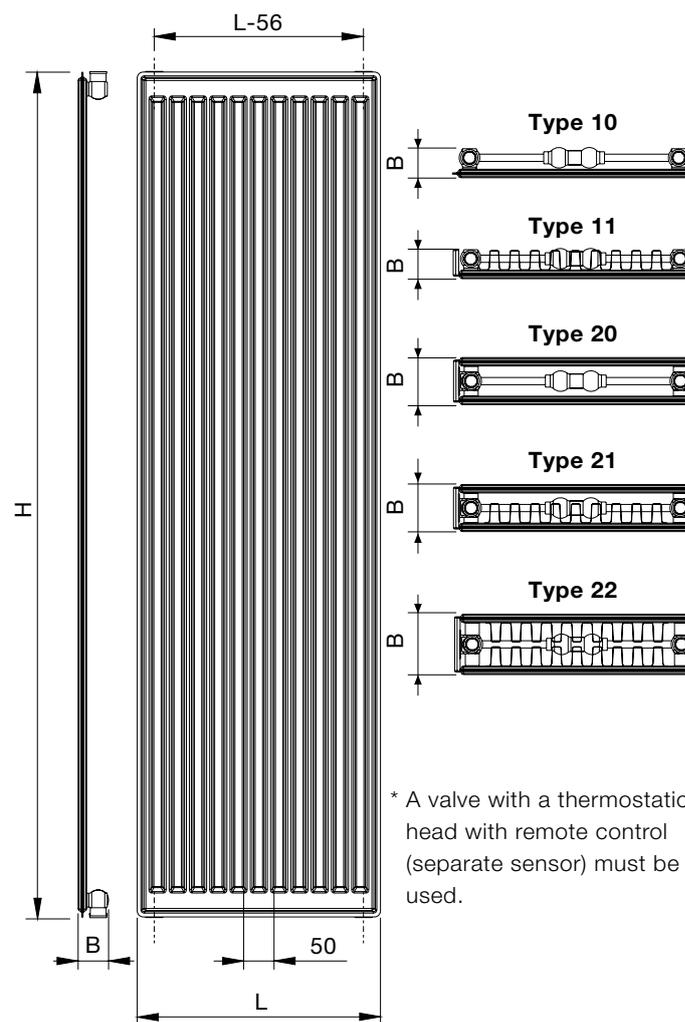
<b>Height H</b>	1600, 1800, 2000, 2200 mm
<b>Length L</b>	400, 500, 600, 700 mm
<b>Depth B</b>	
Type 10	47 mm
Type 11	47 mm
Type 20	77 mm
Type 21	77 mm
Type 22	100 mm
<b>Connecting pitch</b>	50 mm
<b>Connecting thread</b>	6 × G 1/2" inside
<b>Highest allowed working pressure</b>	1,0 MPa
<b>Highest allowed working temperature</b>	110 °C
<b>Radiator connection</b>	middle bottom, side bottom, middle top, side top
<b>Resistance coefficient-</b>	
Type 11	$\xi_T = 8$
Type 20, 21, 22	$\xi_T = 12$

## Examples of connection to the heating system



☞ Heat output on page 70.

## Overview of types



\* A valve with a thermostatic head with remote control (separate sensor) must be used.

☞ Ordering details are provided on page 98.

# RADIK PLAN/LINE PREMIUM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 11 PLAN Type 11 LINE				Type 20 PLAN Type 20 LINE				Type 21 PLAN Type 21 LINE				Type 22 PLAN Type 22 LINE			
Length L [mm]	t <sub>1</sub> /t <sub>2</sub> [°C]	Height H [mm]															
		1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
400	75/65	795	867	935	999	974	1064	1147	1224	1128	1231	1322	1401	1343	1477	1605	1728
	70/55	643	702	757	811	787	861	930	995	911	995	1070	1134	1082	1189	1292	1393
	55/45	408	446	482	519	498	547	592	638	576	630	679	721	680	747	811	878
	45/40	281	307	332	359	341	376	408	442	394	432	467	496	464	509	553	600
500	75/65	994	1084	1169	1249	1218	1330	1434	1530	1410	1539	1653	1752	1679	1846	2006	2160
	70/55	804	877	947	1014	983	1076	1162	1244	1138	1244	1337	1418	1352	1486	1615	1742
	55/45	510	558	603	649	622	683	741	798	720	788	849	901	851	934	1014	1098
	45/40	351	384	416	448	427	470	510	553	493	541	584	620	580	637	691	750
600	75/65	1192	1300	1402	1499	1461	1596	1721	1836	1692	1847	1983	2102	2015	2215	2407	2592
	70/55	964	1053	1136	1217	1180	1291	1395	1492	1366	1493	1604	1701	1623	1784	1938	2090
	55/45	612	669	724	778	747	820	889	957	863	946	1019	1081	1021	1121	1217	1317
	45/40	421	460	498	538	512	564	613	663	591	649	701	744	696	764	829	900
700	75/65	1391	1517	1636	1749	1705	1862	2008	2142	1974	2155	2314	2452	2351	2584	2808	3024
	70/55	1125	1228	1325	1419	1377	1506	1627	1741	1594	1741	1872	1985	1893	2081	2261	2438
	55/45	714	781	844	908	871	957	1037	1117	1007	1103	1189	1262	1191	1308	1420	1537
	45/40	491	537	582	628	597	657	715	774	690	757	818	868	812	891	967	1050

Q for other temperatures: [↗ RADIK PLAN PREMIUM](#), [↗ RADIK LINE PREMIUM](#)

# RADIK PREMIUM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10				Type 11				Type 20				Type 21				Type 22			
Length L [mm]	t <sub>1</sub> /t <sub>2</sub> [°C]	Height H [mm]																			
		1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
400	75/65	671	745	823	906	863	952	1038	1121	1037	1146	1248	1356	1212	1332	1440	1548	1452	1584	1716	1848
	70/55	545	604	666	731	694	766	837	904	837	926	1009	1098	977	1074	1160	1247	1170	1276	1381	1487
	55/45	350	386	423	462	436	482	527	570	528	586	640	698	616	676	730	784	737	803	868	933
	45/40	242	266	291	316	297	329	360	390	361	401	440	480	421	462	498	534	503	547	591	635
500	75/65	839	932	1029	1133	1079	1190	1298	1401	1296	1433	1560	1695	1515	1665	1800	1935	1815	1980	2145	2310
	70/55	682	755	833	914	868	958	1046	1130	1046	1157	1262	1372	1222	1342	1450	1558	1463	1595	1727	1859
	55/45	437	482	529	578	545	602	658	712	660	732	800	873	771	846	913	980	921	1003	1085	1166
	45/40	303	333	363	395	371	411	450	487	452	502	549	600	527	577	623	668	629	684	739	794
600	75/65	1006	1118	1235	1359	1294	1427	1557	1681	1555	1719	1872	2034	1818	1998	2160	2322	2178	2376	2574	2772
	70/55	818	907	999	1097	1042	1150	1255	1356	1255	1389	1514	1647	1466	1611	1740	1870	1755	1914	2072	2230
	55/45	525	579	634	693	654	723	790	855	792	879	960	1047	925	1015	1095	1176	1105	1204	1302	1400
	45/40	364	399	436	474	445	493	539	584	542	602	659	720	632	693	747	802	755	821	887	952
700	75/65	1174	1304	1441	1586	1510	1665	1817	1961	1814	2006	2184	2373	2121	2331	2520	2709	2541	2772	3003	3234
	70/55	954	1058	1166	1280	1215	1341	1464	1582	1464	1620	1766	1921	1711	1879	2030	2182	2048	2233	2418	2602
	55/45	612	675	740	809	763	843	922	997	924	1025	1120	1222	1079	1184	1278	1372	1290	1404	1519	1633
	45/40	424	466	509	554	520	575	629	681	632	703	769	840	737	808	872	935	880	958	1035	1111

Q for other temperatures: [↗ RADIK PREMIUM](#)

# BASIC TECHNICAL PARAMETERS

## RADIK PLAN PREMIUM, LINE PREMIUM

Height H [mm]	Type 11 PLAN Type 11 LINE				Type 20 PLAN Type 20 LINE				Type 21 PLAN Type 21 LINE				Type 22 PLAN Type 22 LINE			
	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
Nominal heat output [W/m]	1987	2167	2337	2498	2435	2660	2868	3060	2820	3078	3305	3503	3358	3692	4012	4320
Temp. exponent n [-]	1,3044	1,2997	1,2950	1,2830	1,3136	1,3037	1,2937	1,2751	1,3169	1,3102	1,3034	1,3011	1,3312	1,3331	1,3349	1,3251
Radiator weight [kg/m]	55,7	62,7	69,7	75,5	76,1	85,5	94,6	105,2	84,5	94,5	105,1	116	93,5	103,2	112,6	126,5
Water volume [l/m]	7,2	8,4	9,3	10,2	14,1	16,2	18	20,1	14,1	16,2	18	20,1	14,1	16,2	18	20,1

## RADIK PREMIUM

Height H [mm]	Type 10				Type 11				Type 20				Type 21				Type 22			
	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200	1600	1800	2000	2200
Nominal heat output [W/m]	1677	1863	2058	2265	2157	2379	2595	2802	2592	2865	3120	3390	3030	3330	3600	3870	3630	3960	4290	4620
Temp. exponent n [-]	1,2748	1,2892	1,3037	1,3182	1,3361	1,3320	1,3278	1,3237	1,3202	1,3135	1,3068	1,3000	1,3235	1,3263	1,3292	1,3320	1,3276	1,3310	1,3344	1,3379
Radiator weight [kg/m]	30,9	34,5	38,1	42	42,9	48,3	53,7	57,9	63,3	71,1	78,6	87,6	71,7	80,1	89,1	98,4	80,7	88,8	96,6	108,9
Water volume [l/m]	7,2	8,4	9,3	10,2	7,2	8,4	9,3	10,2	14,1	16,2	18	20,1	14,1	16,2	18	20,1	14,1	16,2	18	20,1

## RADIK PLAN VKM8, PLAN VKM8 - L, LINE VKM8, LINE VKM8 - L

Height H [mm]	Type 11						Type 20			Type 21					
	300	400	500	600	700	900	500	600	700	300	400	500	600	700	900
Nominal heat output [W/m]	530	658	780	897	1011	1231	848	969	1085	720	904	1072	1226	1367	1617
Temp. exponent n [-]	1,2617	1,2698	1,2778	1,2859	1,2989	1,3249	1,2895	1,2924	1,2988	1,3019	1,3144	1,3268	1,3393	1,3446	1,3553
$K_M$	3,8079	4,5801	5,2620	5,8626	6,2800	6,9071	5,4648	6,1741	6,7423	4,4202	5,2850	5,9704	6,5022	7,1012	8,0556
Radiator weight [kg/m]	13,4	16,6	20,6	24,4	29,1	37,0	25,2	30	35	17,6	22,9	27,0	32,0	37	48,8
Water volume [l/m]	1,9	2,3	2,7	3,1	3,5	4,5	5,3	6,2	7,0	3,7	4,5	5,3	6,2	7,0	8,7

Height H [mm]	Type 22						Type 33					
	300	400	500	600	700	900	300	400	500	600	700	900
Nominal heat output [W/m]	914	1165	1400	1621	1830	2215	1337	1689	2022	2341	2648	3231
Temp. exponent n [-]	1,2863	1,2990	1,3117	1,3244	1,3327	1,3493	1,3284	1,3252	1,3219	1,3187	1,3313	1,3565
$K_M$	5,9643	7,2338	8,2716	9,1131	9,9594	11,2967	7,3998	9,4657	11,4792	13,4577	14,4904	16,0208
Radiator weight [kg/m]	20,4	26,7	30,6	36,6	42,6	55,8	29,0	38,2	43,8	52,4	60,8	79,7
Water volume [l/m]	3,7	4,5	5,3	6,2	7,1	8,9	5,4	6,7	8,0	9,3	10,5	13,0

Characteristic equation:  $\phi = K_M \cdot \Delta T^n \left[ \frac{W}{m} \right]$ ,  $\Delta T = \frac{t_1 + t_2}{2} - t_r [K]$

$t_1$  – temperature water-in,  $t_2$  – temperature water-out,  $t_r$  – relative air temperature

# ORDER ITEM CODES

Steel panel radiators	Version	Model	Type	Code for ordering
<b>RADIK</b>	<b>VERTIKAL</b>	☑ <b>RADIK PLAN VERTIKAL - M</b>	10 PLAN VERTIKAL	10HHHLLL-V0P0010
			20 PLAN VERTIKAL	20HHHLLL-V0P0010
		☑ <b>RADIK LINE VERTIKAL - M</b>	10 LINE VERTIKAL	10HHHLLL-V0L0010
			20 LINE VERTIKAL	20HHHLLL-V0L0010
		☑ <b>RADIK PREMIUM</b>	10 PREMIUM	10HHHLLL-WU-0010
			11 PREMIUM	11HHHLLL-WU-0010
			20 PREMIUM	20HHHLLL-WU-0010
			21 PREMIUM	21HHHLLL-WU-0010
			22 PREMIUM	22HHHLLL-WU-0010
		☑ <b>RADIK PLAN PREMIUM</b>	11 PLAN PREMIUM	11HHHLLL-WUP0010
			20 PLAN PREMIUM	20HHHLLL-WUP0010
			21 PLAN PREMIUM	21HHHLLL-WUP0010
			22 PLAN PREMIUM	22HHHLLL-WUP0010
		☑ <b>RADIK LINE PREMIUM</b>	11 LINE PREMIUM	11HHHLLL-WUL0010
			20 LINE PREMIUM	20HHHLLL-WUL0010
			21 LINE PREMIUM	21HHHLLL-WUL0010
			22 LINE PREMIUM	22HHHLLL-WUL0010
		<b>HYGIENE</b>	☑ <b>RADIK HYGIENE VKM8</b>	10 HYGIENE VKM8
	20S HYGIENE VKM8			20HHHLLL-SCH0010
	30 HYGIENE VKM8			30HHHLLL-SCH0010
	☑ <b>RADIK HYGIENE VK</b>		10 HYGIENE VK	10HHHLLL-6CH0010
			20S HYGIENE VK	20HHHLLL-6CH0010
			30 HYGIENE VK	30HHHLLL-6CH0010
	☑ <b>RADIK HYGIENE</b>		10 HYGIENE	10HHHLLL-5CH0010
			20S HYGIENE	20HHHLLL-5CH0010
			30 HYGIENE	30HHHLLL-5CH0010
	☑ <b>RADIK CLEAN VKM8</b>		10 CLEAN VKM8	10HHHLLL-S0-0010
			20S CLEAN VKM8	20HHHLLL-SC-0010
			30 CLEAN VKM8	30HHHLLL-SC-0010
	☑ <b>RADIK CLEAN VK</b>		10 CLEAN VK	10HHHLLL-60-0010
			20S CLEAN VK	20HHHLLL-6C-0010
			30 CLEAN VK	30HHHLLL-6C-0010
	☑ <b>RADIK CLEAN</b>		10 CLEAN	10HHHLLL-50-0010
			20S CLEAN	20HHHLLL-5C-0010
			30 CLEAN	30HHHLLL-5C-0010

☑ Note: for the ordering code scheme, see page 99.