



Panel Radiator and Towel Warmer Production Plant

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BOR-SAN A.Ş. is a member of BOR-AN Group.

The panel radiator and towel warmer manufacturing plants is located at Aksaray Industrial Zone. The Plant's indoor area is 41.000 m2 on a total outdoor area of 80.000 m2.

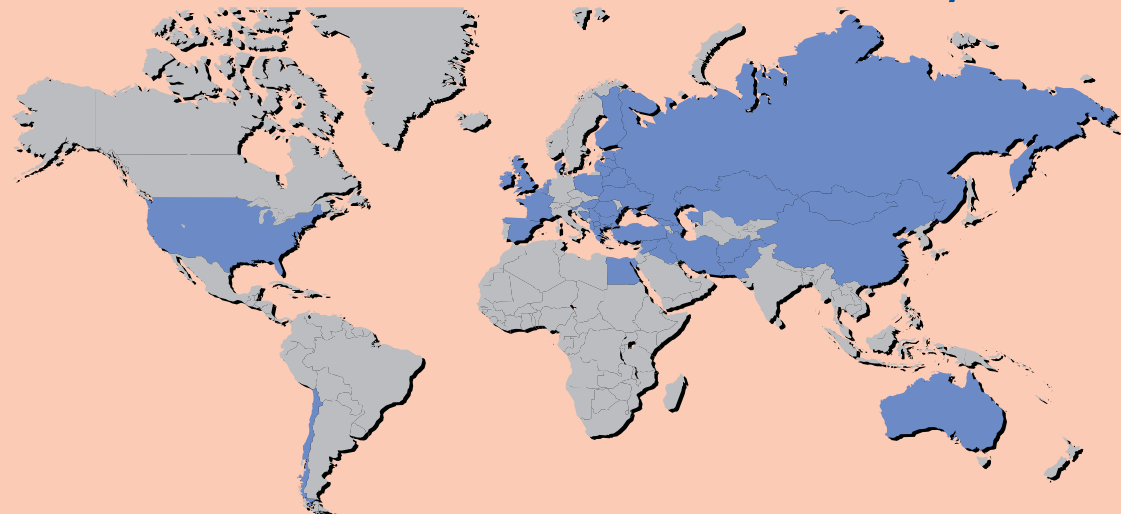
The manufacturing capacity is 1.250.000 m/year for panel radiator and 600.000 m/year for towel warmers with the latest available technology.

The quality, effectiveness, environmental awareness and customer satisfaction are the main pillars for all of our activities.

Dynamic and young employees devote a good portion of their times to resarch and development activities to stay always competitive in global market.

Borpan is a brand that you can always rely on.

41 countries in 6 continents within 4 years



BOR-SAN

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Plant

Organize Sanayi Bölgesi, Aksaray, TURKEY

Authorized Dealer

200811e7

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Panel Radiator Towel Warmer

Quality & value for your warm feeling



CODE	Width mm	Height mm	Number of Bars	Diameter of Bars mm	Wall Thickness mm	Total Surface Area m2	Water Volume lt	Empty Weight kg	Thermal Output watt	Thermal Output kcal/h
BH 22 500x735	500	735	14	22	1,2	0,533	2,94	4,9	431	371
BH 22 500x1185	500	1185	22	22	1,2	0,874	4,82	7,9	673	579
BH 22 500x1500	500	1500	27	22	1,2	1,148	6,30	10,4	870	748
BH 22 600x1185	600	1185	22	22	1,2	1,012	5,45	8,9	780	670
BH 22 600x1500	600	1500	27	22	1,2	1,335	7,15	11,8	1012	870
BH 22 750x1500	750	1500	27	22	1,2	1,615	8,42	13,8	1224	1053
BH 22 500x735	500	735	14	22	1,2	0,533	2,94	4,9	365	314
BH 22 500x1185	500	1185	22	22	1,2	0,874	4,82	7,9	570	491
BH 22 500x1500	500	1500	27	22	1,2	1,148	6,30	10,4	737	634
BH 22 600x1185	600	1185	22	22	1,2	1,012	5,45	8,9	661	568
BH 22 600x1500	600	1500	27	22	1,2	1,335	7,15	11,8	858	737
BH 22 750x1500	750	1500	27	22	1,2	1,615	8,42	13,8	1037	890

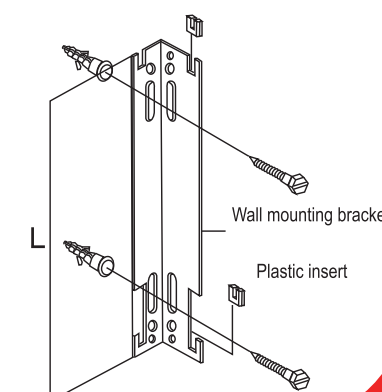
Height	A	B	TYPE		No of Lugs	No of Bracket
			11	10-20-21-22-33		
			C	C		
mm	mm	mm	mm	mm	pcs	pcs
300	107,5	85	116	101	4	2
400	107,5	185	116	101	4	2
500	107,5	285	116	101	4	2
600	107,5	385	116	101	4	2
700	107,5	485	116	101	4	2
900	107,5	685	116	101	4	2

Radiator Length	TYPE		No of Lugs	No of Bracket
	11	10-20-21-22-33		
	L1	L1		
mm	mm	mm	pcs	pcs
400	168	198	4	2
500	268	298	4	2
600	368	398	4	2
700	468	498	4	2
800	568	598	4	2
900	668	698	4	2
1000	768	798	4	2
1100	868	898	4	2
1200	968	998	4	2
1300	1068	1098	4	2
1400	1168	1198	4	2
1500	1268	1298	4	2

Radiator Length	TYPE		No of Lugs	No of Bracket
	11	10-20-21-22-33		
	L2	L2		
mm	mm	mm	pcs	pcs
1600	684	699	6	3
1800	784	799	6	3
2000	884	899	6	3
2200	984	999	6	3
2400	1084	1099	6	3
2600	1184	1199	6	3
2800	1284	1299	6	3
3000	1384	1399	6	3

An air vent, plug, mounting brackets, wall plugs and screws are packed along with the panel radiator. Everything is in one pack. Single piece modular construction makes panel radiator easy to install. No on-site assembly is required.

Radiator Height	Bracket Length (L)
mm	mm
300	110
400	210
500	310
600	410
700	510
900	710



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Panel Radiator

Packaging

Each radiator is individually bubble-wrapped and their corners are covered with plastic corner protection pieces. Finally, each radiator is shrink-wrapped to achieve maximum durability during transportation and storage. The package is clearly marked with the type and size of the panel radiator.

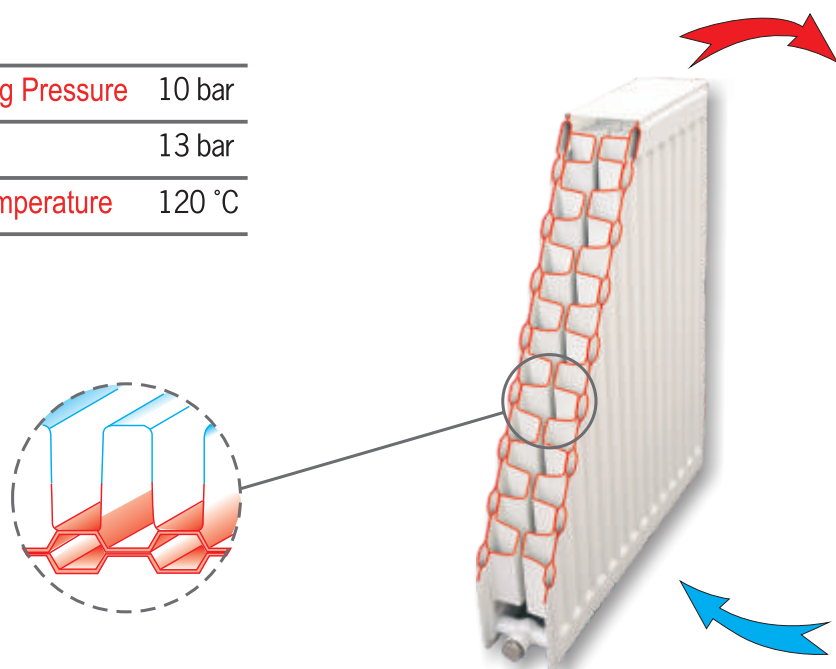
High Quality

The company's quality management system is certified with ISO 9001:2000. The panel radiators comply with EN442,NF,DIN Geprüft,GOSTROY, UKR Sepro, BelST, TSE product standards and have CE mark.

High Operating and Test Pressure

Every radiator is tested at 13 bars and is suitable for operating pressure up to 10 bars. Maximum working temperature is 120°C

Maximum Operating Pressure	10 bar
Test Pressure	13 bar
Max. Operating Temperature	120 °C



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Panel Radiator



High Technology

Borpan panel radiators are manufactured with fully automatic production lines utilizing the latest technology available in the world.

High Efficiency

Borpan panel radiators are made from EN10130 cold rolled steel sheet in compliance to the EN 442,33.3 mm pitched water circulation channels and tall convectors welded directly on these channels provide rapid heat convection to the space and make you feel comfortable quickly. Radiators are also available with internal valve control (compact vent system). All radiators can be fitted with thermostatic valves.

Appearance

Borpan panel radiators are designed to achieve a slim and elegance appearance.

Easy to Clean

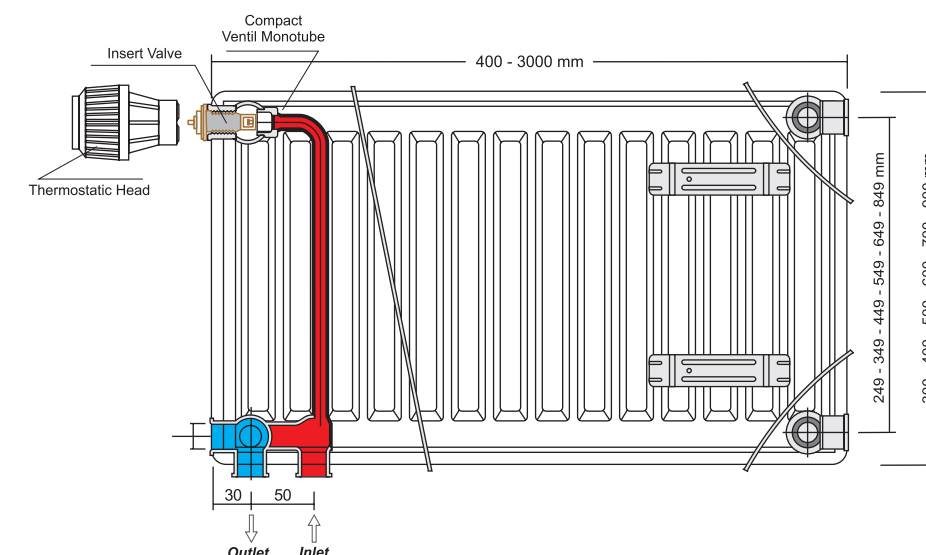
Borpan styling minimizes areas where dust and dirt can collect, it is easy to clean the radiator by removing the side and top cover grills.

Paint Finish

Each Borpan panel radiator undergoes a multistage pre-treatment process including cleaning, iron phosphating and passivation followed by a water-based epoxy polyester primer coat. Then, an epoxy polyester powder coat is electrostatically applied to all front and rear surfaces. The process complies with DIN 55900 standard. Standard color is RAL 9016 but different colors can be applied upon special requests.

Wide Range of Choices

Thermostatic radiator valve is used on ventil compact panel radiators to arrange the heat level in radiators for convenient temperature according to the room heating. Ventil compact panel radiators provides bottom entry connection to the radiators for underground pipe installations. Ventil compact panel radiators are produced as ventil to be placed at the right or left side of the radiators.

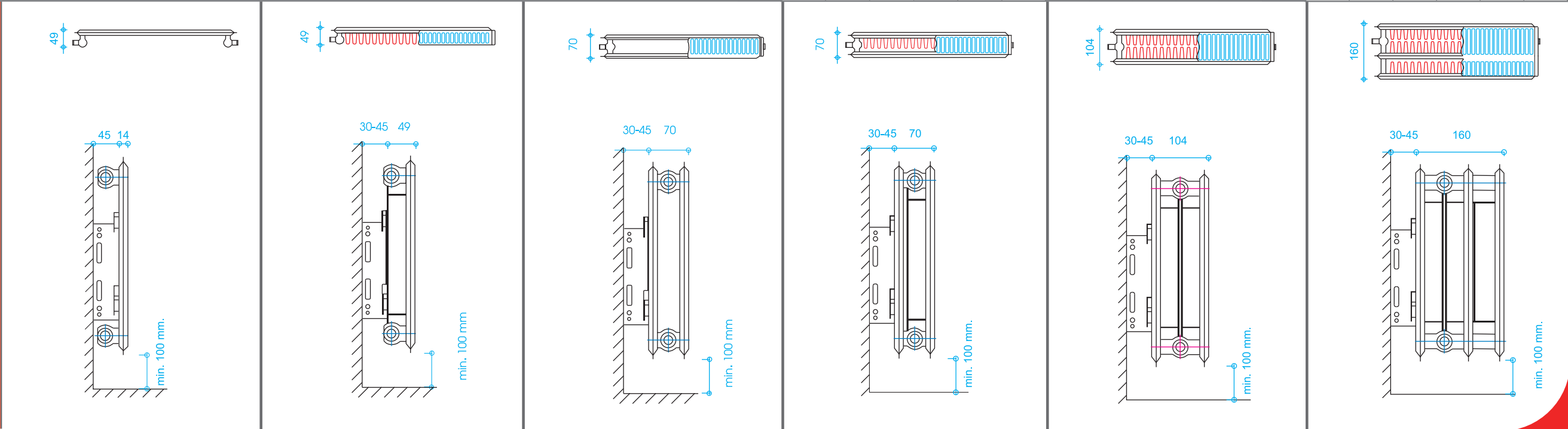




Technical Specifications

90 °C / 70 °C Water Temperature

RADIATOR TYPE			TYPE 10 P						TYPE 11 PK						TYPE 20 PP						TYPE 21 PKP						TYPE 22 PKKP						TYPE 33 PKKPKP					
Dimensions (mm)	Radiator Height		300	400	500	600	700	900	300	400	500	600	700	900	300	400	500	600	700	900	300	400	500	600	700	900	300	400	500	600	700	900	300	400	500	600	700	900
	Distance Between Axes		249	349	449	549	649	849	249	349	449	549	649	849	249	349	449	549	649	849	249	349	449	549	649	849	249	349	449	549	649	849	249	349	449	549	649	849
	Total Thickness		49	49	49	49	49	49	49	49	49	49	49	49	70	70	70	70	70	70	70	70	70	70	70	70	104	104	104	104	104	104	160	160	160	160	160	160
Weight (kg / m)			6.97	8.93	10.89	12.85	14.78	18.73	8.41	11.42	14.42	17.43	20.45	26.44	13.34	17.26	21.18	25.1	28.98	36.86	14.78	19.75	24.71	29.68	34.65	44.57	16.42	22.43	28.44	34.45	40.50	52.48	24.43	33.45	42.76	51.48	60.57	78.52
Water Volume (l/m)			1.80	2.20	2.60	3.10	3.74	4.40	1.80	2.20	2.60	3.10	3.74	4.40	3.60	4.40	5.30	6.20	7.49	8.90	3.60	4.40	5.30	6.20	7.49	8.90	3.60	4.40	5.30	6.20	7.49	8.90	5.30	6.50	7.70	9.20	11.23	14.50
Room Temperature	10 °C	W	589	755	955	1109	1244	1535	777	1055	1274	1494	1751	2261	1101	1411	1785	2073	2325	2869	1421	1676	2422	2530	2841	3511	1640	1951	2865	3090	3395	4095	2378	3138	3745	3998	4876	6542
		kcal/h	507	650	821	953	1069	1320	668	906	1095	1284	1505	1943	948	1215	1535	1781	1998	2467	1222	1441	2083	2175	2443	3019	1411	1884	2363	2656	2918	3519	2044	2697	3219	3437	4192	5623
	12 °C	W	568	728	921	1069	1200	1481	749	1017	1229	1441	1688	2180	1062	1361	1721	1998	2242	2768	1355	1597	2308	2411	2707	3345	1582	1882	2621	2980	3274	3949	2294	3026	3612	3856	4703	6310
		kcal/h	489	627	793	919	1031	1273	644	874	1057	1239	1452	1875	914	1172	1482	1718	1927	2379	1165	1373	1984	2073	2328	2876	1361	1818	2252	2563	2815	3395	1972	2602	3106	3316	4044	5426
	15 °C	W	538	689	870	1010	1133	1398	708	961	1161	1361	1595	2059	1006	1288	1626	1888	2118	2613	1279	1508	2180	2277	2557	3159	1494	1778	2475	2815	3093	3730	2166	2858	3412	3642	4442	5959
		kcal/h	461	592	768	868	974	1203	608	826	1000	1171	1371	1170	862	1107	1436	1622	1821	2249	1100	1297	1874	1958	2199	2717	1285	1529	2127	2420	2659	3207	1892	2458	2933	3132	3820	5124
	18 °C	W	504	645	816	947	1062	1310	664	921	1088	1277	1495	1930	942	1206	1525	1770	1985	2449	1199	1414	2044	2135	2397	2962	1401	1667	2321	2639	2899	3497	2031	2679	3199	3415	4165	5587
		kcal/h	433	555	701	815	914	1127	570	774	936	1098	1286	1660	809	1037	1310	1523	1708	2107	1031	1216	1757	1835	2061	2547	1205	1433	1994	2269	2493	3006	1960	2304	2750	2935	3580	4804
	20 °C	W	483	620	783	909	1020	1260	637	865	1044	1225	1436	1854	903	1159	1464	1699	1907	2355	1151	1357	1962	2049	2301	2844	1345	1600	2228	2533	2783	3357	1951	2572	3070	3278	3998	5363
		kcal/h	415	532	674	781	876	1082	548	744	898	1053	1234	1593	776	994	1260	1460	1638	2022	990	1167	1687	1762	1979	2445	1156	1376	1914	2178	2393	2886	1677	2211	2640	2818	3437	4612
	22 °C	W	460	590	766	865	971	1199	606	823	995	1167	1367	1764	860	1103	1432	1617	1815	2241	1097	1293	1869	1952	2192	2708	1281	1524	2122	2413	2651	3197	1857	2449	2924	3122	3808	5108
		kcal/h	396	507	641	744	935	1031	522	709	855	1003	1175	1518	740	948	1198	1391	1561	1927	943	1111	1607	1678	1885	2329	1101	1310	1823	2075	2279	2748	1599	2107	2515	2684	3274	4392
	24 °C	W	440	563	712	827	927	1143	580	786	950	1114	1305	1685	822	1052	1331	1546	1733	2136	1047	1234	1784	1863	2092	2585	1223	1454	2025	2303	2530	3051	1772	2338	2791	2980	3635	4876
		kcal/h	378	484	612	711	797	984	500	676	816	958	1122	1448	707	905	1144	1329	1490	1839	900	1061	1534	1602	1799	2223	1051	1251	1740	1980	2175	2624	1524	2011	2400	2562	3125	4193
	26 °C	W	420	538	681	790	887	1095	554	752	908	1065	1248	1612	785	1006	1273	1477	1640	2047	1001	1180	1706	1782	2001	2473	1170	1391	1937	2203	2420	2919	1695	2236	2670	2851	3477	4664
		kcal/h	352	463	585	679	762	941	476	647	781	916	1073	1386	658	865	1093	1269	1424	1759	861	1015	1467	1532	1721	2128	1006	1196	1664	1894	2081	2510	1458	1923	2295	2451	2989	4010



* Above data are for 1 m long panel radiator