



extra panel radiator



10 years
Guaranty



EN 442



High Technology



- ÜNMAK has been effecting production at an annual capacity of 1.200.000 meters in its PLC - controlled production lines established in the industrial zone of Afyonkarahisar.
- extra panel radiators ensure comfortable warming thanks to its quality and high efficiency.

Modern and Aesthetical



- ÜNMAK extra panel radiators boast modern look thanks to their smooth and bright surface and sleek touch thanks to its aesthetical design. The product gives a stylish touch to the ambient architectural decoration.

High-Quality Raw Material, High-Quality Product



- High-quality Erdemir cold rolled steel sheets are employed in the manufacture of ÜNMAK extra panel radiators.

High Efficiency



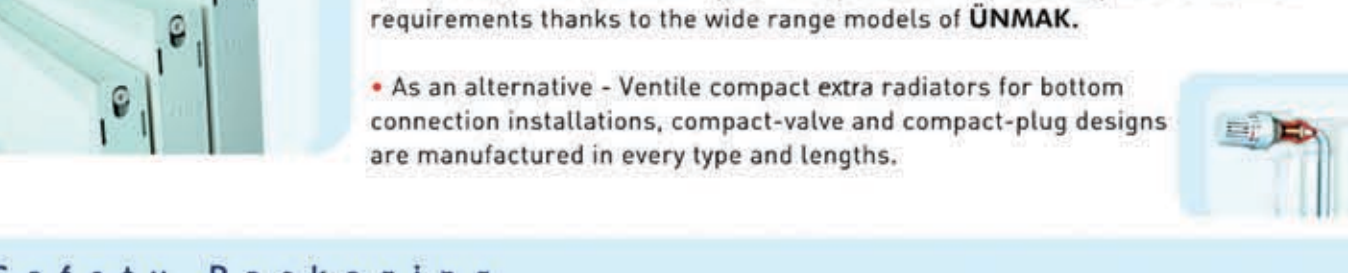
- ÜNMAK extra panel radiators boast the maximum thermal efficiency with 33.3 mm-pitch water chanell conduits and wide convector surface.

Utmost Quality and Warranty

- ÜNMAK extra panel radiators are manufactured at the company's latest technology plant in strict conformity with the EN 442 norm under the assurance of the ISO-9001:2000 quality certificate. Each radiator subjects to one by one for the leakage test pressure at 13 bars and is resistant to an operating pressure of 10 bars.
- Offered to the consumers accompanied with a 10-years warranty.

extra panel radiator

Latest Technology Painting



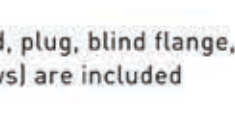
- ÜNMAK extra panel radiators are cleaned by means of a set of treatments namely degreasing by immersion, degreasing by spray, iron-phosphate coating and passivation. Radiators primed by wet undercoating painting, immersion method and kiln-dried are dyed in RAL 9010 color by means of robot guns with the electrostatic epoxy powder-coating method and then finished with kiln-drying.

Alternative Models



- extra compant panel radiators are offered in 5 different heights namely 300, 400, 500, 600 and 900 mm and in 100-mm longitudinal increments for the 400-1600mm span and 200-mm increments for the 160-300 cm span in P, PK, PKP, PKKP types. The product line meets any kind of thermal requirements thanks to the wide range models of ÜNMAK.

- As an alternative - Ventile compact extra radiators for bottom connection installations, compact-valve and compact-plug designs are manufactured in every type and lengths.

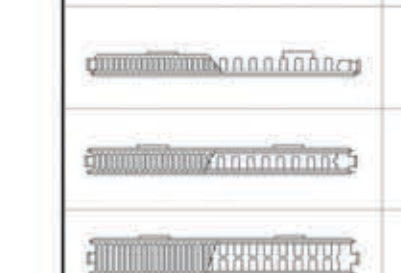


Safety Packaging



- ÜNMAK extra panel radiators are packed with bubble nylon packages and supported edge cardboard to ensure protection from outer impacts during transport and installation

Easy Installation



- Standard installation components (suspenders, air vent, blind, plug, blind flange, spring clips retaining the console, fixing plugs and coach screws) are included in the packing.
- Installation of radiators is easy and practical.

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Technical Specifications

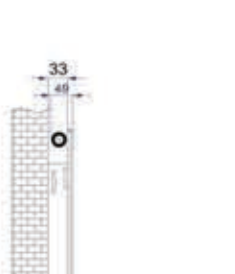
Models	Type	Height (mm)	Connection axis (mm)	Width (mm)	Lengths min-max (mm)	Water volume (litm)	Weight (kg/m)
	10-P	300	245	49	400-3000	1.7	6.8
		400	345	49	400-3000	2.1	7.4
		500	445	49	400-3000	2.6	10.1
		600	545	49	400-3000	3.1	12
	11-PK	300	245	49	400-3000	1.75	9.5
		400	345	49	400-3000	2.1	11.7
		500	445	49	400-3000	2.6	14.6
		600	545	49	400-3000	3.1	17.6
	21-PKP	300	245	70	400-3000	3.4	15
		400	345	70	400-3000	4.3	22
		500	445	70	400-3000	5.1	27
		600	545	70	400-3000	6.1	30.7
	22-PKKP	300	245	104	400-3000	3.4	17.7
		400	345	104	400-3000	4.3	22.4
		500	445	104	400-3000	5.1	28.3
		600	545	104	400-3000	6.1	33.6
	33-PKKPKP	300	245	160	400-3000	8.2	51
		400	345	160	400-3000	9.5	58.1
		500	445	160	400-3000	10.4	62
		600	545	160	400-3000	11.7	66.7

Console Dimensions

HEIGHT	CONSOLE DIMENSIONS
A (mm)	B (mm)
300	110
400	210
500	310
600	410
900	710

[Type 10,21,22,33]					
H	X	Y	Z	D	
300	100	120	85		
400	100	120	185		
500	100	120	285		
600	100	120	385		
900	100	120	685		

400 mm	+	1600 mm	4 Brackets
1700 mm	+	3000 mm	6 Brackets



[Type 11]					
H	X	Y	Z	D	
300	117	120	85		
400	117	120	185		
500	117	120	285		
600	117	120	385		
900	117	120	685		



Wall-Mounting



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Thermal Efficiency

		900	2355	2025	2224	1912	2085	1795	2002	1721	1908	1639	1850	1565	1771	1497
		300	1429	1238	1335	1168	1274	1096	1223	1045	1114	1003	1112	956	1054	978
PKP 21		400	1807	1554	1706	1467	1599	1375	1535	1320	1463	1258	1396	1200	1335	1148
		500	2052	1764	1936	1665	1817	1562	1743	1499	1660	1427	1585	1363	1517	1305
		600	2454	2110	2317	1992	2172	1868	2085	1793	1985	1707	1895	1629	1813	1559
		900	3467	2981	3775	2816	3089	2639	2947	2534	2806	2413	2680	2304	2562	2025
ROOF 22		1851	1592	1741	1404	1552	1323	1453	1249	1383	1199	1329	1168	1274	1104	974
		400	2129	1831	2011	1729	1884	1620	1810	1556	1724	1482	1644	1414	1574	1353
		500	2464	2119	2327	2001	2181	1875	2095	1795	1959	1715	1904	1637	1820	1561
		600	3117	2680	2944	2531	2760	2373	2649	2278	2524	2170	2407	2070	2304	1945
PKP 33		900	4279	3679	4041	3475	3789	3258	3637	3127	3443	2978	3308	2844	3162	2719
		2510	2129	2327	1992	2172	1868	2085	1793	1985	1707	1895	1629	1813	1559	1305
		400	3156	2714	2981	2563	2795	2403	2683	2307	2556	2198	2439	2097	2333	2006
		500	3800	3267	3589	3086	3343	2922	3230	2777	3075	2644	2937	2525	2807	2414
	600	4248	3651	4010	3448	3760	3233	3610	3104	3348	2956	3282	2822	3109	2699	
	900	5945	5112	5615	4828	5284	4526	5053	4345	4811	4113	4573	3949	4394	3778	

70 °C (75 °C / 65 °C) HEAT OUTPUTS												EN 442			
Room Temperature															
Type	HEIGHT	10 °C		12 °C		15 °C		18 °C		20 °C		22 °C		24 °C	
		watt	kcal/h	watt	kcal/h	watt	kcal/h	watt	kcal/h	watt	kcal/h	watt	kcal/h	watt	kcal/h
P 10	300	422	363	406	349	378	325	350	301	333	286	317	286	297	255
	400	557	479	536	461	500	430	463	398	440	378	420	361	393	338
	500	686	590	662	569	616	530	571	491	542	466	516	444	484	416
	600	807	694	778	669	726	624	672	578	639	549	608	523	570	490
PK 11	300	1010	864	1061	912	989	850	915	787	870	748	828	712	775	667
	400	1354	1164	1235	1064	1149	993	1072	931	1036	904	1019	882	959	814
	500	1686	1450	1554	1336	1449	1249	1354	1174	1299	1124	1254	1074	1174	1004
	600	1986	1704	1834	1574	1694	1454	1574	1374	1514	1314	1454	1254	1354	1154
PKP 21	300	1579	1358	1521	1308	1418	1219	1313	1129	1248	1073	1189	1022	1114	958
	400	2199	1891	2119	1822	1975	1698	1829	1573	1738	1494	1655	1423	1551	1334
	500	2637	2267	2540	2184	2367	2035	2192	1885	2083	1791	1983	1705	1860	1599
	600	3062	2633	2952	2538	2750	2365	2547	2190	2420	2081	2305	1982	2160	1858
PKKP 22	300	1579	1358	1521	1308	1418	1219	1313	1129	1248	1073	1189	1022	1114	958
	400	2199	1891	2119	1822	1975	1698	1829	1573	1738	1494	1655	1423	1551	1334
	500	2637	2267	2540	2184	2367	2035	2192	1885	2083	1791	1983	1705	1860	1599
	600	3062	2633	2952	2538	2750	2365	2547	2190	2420	2081	2305	1982	2160	1858
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	400	2199	1891	2119	1822	1975	1698	1829	1573	1738	1494	1655	1423	1551	1334
	500	2637	2267	2540	2184	2367	2035	2192	1885	2083	1791	1983	1705	1860	1599
	600	3062	2633	2952	2538	2750	2365	2547	2190	2420	2081	2305	1982	2160	1858

TEST PRESSURE		MAXIMUM OPERATING PRESSURE		MAXIMUM OPERATING TEMPERATURE	
BAR		BAR		°C	
13		10		120	

extra quality warming



Everything you expect from a panel radiator...

www.unmak.com

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