

Thermal Efficiency

Thermal Capacity in 80°C (90°C / 70°C) water temperature TS 4310

TYPE	HEIGHT	Interior Temperature													
		12°C		15°C		18°C		20°C		22°C		24°C		26°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	756	649	713	613	668	575	641	551	611	525	583	501	567	479
	400	971	835	916	788	859	739	825	706	785	675	749	644	718	617
	500	1227	1055	1158	998	1088	954	1042	896	993	854	948	815	907	780
	550	1349	1160	1273	1095	1194	1027	1146	985	1092	939	1042	896	997	858
	600	1418	1218	1339	1151	1255	1079	1205	1036	1147	986	1094	941	1047	900
PK 11	300	1511	1299	1426	1226	1336	1149	1284	1104	1222	1051	1168	1003	1115	959
	400	1904	1663	1848	1615	1759	1529	1693	1478	1607	1408	1549	1353	1494	1297
	500	2453	2148	2371	2119	2298	2026	2235	1962	2178	1915	2122	1865	2073	1823
	550	2598	2273	2506	2246	2434	2151	2368	2094	2319	2045	2264	1991	2219	1967
	600	2685	2349	2592	2329	2524	2239	2463	2187	2411	2135	2358	2081	2317	2063
PK/P 21	300	2355	2025	2224	1912	2085	1793	2002	1721	1905	1638	1820	1565	1741	1497
	400	3039	2638	2898	2548	2744	2396	2603	2321	2514	2256	2463	2199	2416	2152
	500	3807	3327	3648	3278	3509	3141	3381	3013	3262	2904	3154	2805	3065	2815
	550	4052	3584	3936	3547	3809	3421	3681	3303	3572	3214	3483	3125	3394	3144
	600	4244	3780	4152	3742	4024	3614	3894	3515	3784	3425	3714	3356	3644	3394
PK/P 22	300	2651	2281	2517	2164	2369	2011	2216	1954	2159	1906	2103	1850	2047	1803
	400	3453	3021	3317	2912	3149	2741	2966	2558	2783	2475	2704	2406	2635	2381
	500	4453	3918	4271	3812	4081	3674	3926	3518	3767	3459	3708	3400	3649	3395
	550	4744	4219	4581	4114	4394	3986	4246	3838	4087	3779	3928	3620	3869	3615
	600	4985	4520	4893	4417	4704	4296	4554	4146	4383	4075	4224	3916	4165	3911

Thermal Capacity in 70°C (75°C / 65°C) water temperature DIN EN 442

TYPE	HEIGHT	Interior Temperature													
		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	269	297	255
	400	557	479	536	461	500	430	463	398	440	378	420	361	393	338
	500	886	760	862	769	836	730	771	691	742	666	716	644	694	616
	550	954	849	928	825	877	783	828	740	796	712	767	688	739	657
	600	1077	964	1064	959	1024	922	978	898	958	878	938	858	918	838
PK 11	300	1100	946	1061	912	989	850	915	787	870	746	828	712	775	667
	400	1460	1258	1386	1194	1293	1110	1194	1031	1114	971	1054	918	981	845
	500	1905	1644	1812	1581	1719	1488	1596	1385	1493	1304	1412	1225	1333	1146
	550	2040	1771	1959	1718	1866	1615	1734	1504	1623	1413	1532	1344	1463	1275
	600	2185	1916	2124	1853	2011	1740	1859	1608	1727	1517	1636	1448	1567	1379
PK/P 21	300	1163	1000	1120	963	1043	897	968	832	918	790	875	752	834	705
	400	1579	1358	1521	1308	1418	1219	1313	1129	1248	1073	1189	1022	1114	958
	500	2063	1828	2027	1787	1944	1693	1801	1590	1719	1518	1647	1446	1575	1374
	550	2218	1987	2196	1926	2095	1844	1952	1741	1870	1669	1798	1597	1726	1525
	600	2384	2172	2391	2091	2280	1999	2188	1947	2136	1915	2104	1883	2072	1851
PK/P 22	300	1551	1334	1494	1285	1392	1197	1291	1110	1226	1054	1168	1004	1094	941
	400	2067	1800	2009	1759	1928	1678	1806	1595	1723	1514	1642	1433	1561	1352
	500	2647	2310	2549	2249	2438	2138	2327	2027	2216	1966	2155	1905	2094	1844
	550	2802	2495	2764	2444	2653	2353	2542	2242	2431	2131	2320	2020	2209	1909
	600	2967	2638	2927	2597	2806	2506	2695	2395	2584	2284	2473	2173	2362	2062



extra panel radiator

"Feel the heat..."



extra panel radiator

MAXIMUM TEST PRESSURE

MAXIMUM OPERATING PRESSURE
(STATIC PRESSURE + PUMP PRESSURE)

MAXIMUM OPERATING TEMPERATURE

13

10

120

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ÜNÜSÖV
Genel ve Tic. Ltd. Şk.





• High Technology

UNMAK has production of 1.200.000 meters per year with PLC-controlled production lines set in industrial zone of Afyonlarahisar.



• Latest Technology Painting

UNMAK 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 9016 color by means of robot guns with the electrostatic epoxy powder-coating method and finishes with drying.

• High Quality Raw Material, High Quality Product

High quality Erdemir cold rolled sheet metals use in production of steel panel radiators.



• Maximum Quality and Warranty

It makes production in modern facilities with ISO-9001 quality certificate in accordance with TS EN 442 standards. Each radiator is exposed to 13 bar test and is resistant to 10 bar operating pressure. The warranty is 10 years.



• Safety Packaging

UNMAK extra panel radiators are packed with bubble nylon packages and supported edge cardboards to ensure protection from outer impacts during transport and installation.



• Easy Installation

Installation materials (hanging equipment, valve cork, blind flange, clips to hang the console, rawplugs and trifen screws) are included. The installation of the radiators is practical, it can be installed easily.



• High Efficiency

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



• Modern and Stylish Design

UNMAK extra panel radiators are modern with its smooth surface and stylish touch with its aesthetical design. It provides an elegant appearance to the decoration of the rooms.

Technical Specifications

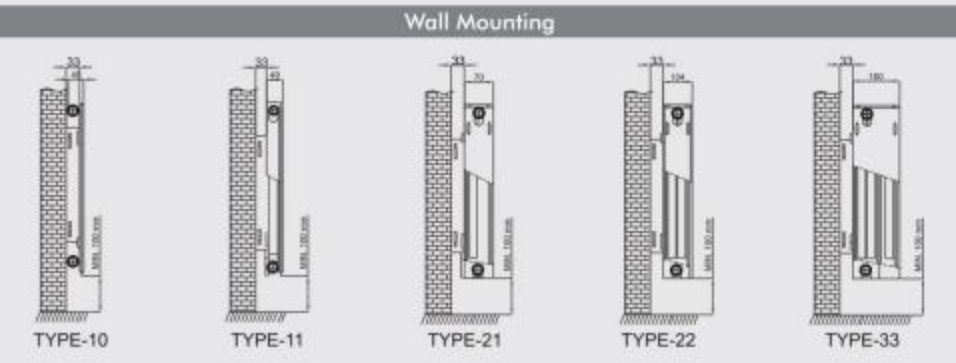
Technical Information	Type	Height (mm)	Junction axis (mm)	Width	Length min-max (mm)	Water capacity (lit/m)	Weight (kg/m)
	10-P	300	245	49	400-3000	1.7	6.5
		400	345			2.1	7.1
		500	445			2.6	9.6
		550	500			2.9	10.6
		600	545			3.1	11.4
	11-PK	300	245	49	400-3000	1.7	6.1
		400	345			2.1	11.1
		500	445			2.6	14.1
		550	500			2.9	15.1
		600	545			3.1	16.9
	21-PKP	300	245	70	400-3000	3.4	14.4
		400	345			4.3	21.1
		500	445			5.6	25.9
		600	545			6.6	27.9
		900	845			8.1	29.5
	22-PKPK	300	245	104	400-3000	3.4	17
		400	345			4.3	21.5
		500	445			5.1	27.2
		550	500			5.6	29.2
		600	545			6.1	31.9
	33-PKPKPK	300	245	160	400-3000	8.2	48.5
		400	345			5.1	25.1
		500	445			6.2	31.9
		550	500			7.6	40.3
		600	545			8.4	43.3
900	845	9.9	48.5				
						13.1	71.6

Console Dimensions

Radiator height	L- CONSOLE SIZES	
	5 pins	6 pins
300	110	85
400	210	185
500	310	285
550	380	335
600	410	385
900	710	685

(TYPE 10, 21, 22, 33)					
H	X	Y	Z	D	
300	100	120	85	400 mm + + 1600 mm 4 Brackets	
400	100	120	185	1700 mm + + 3000 mm 6 Brackets	
500	100	120	285		
550	100	120	285		
600	100	120	385		
900	100	120	685		

(TYPE 11)					
H	X	Y	Z	D	
300	117	120	85		
400	117	120	185		
500	117	120	285		
550	117	120	335		
600	117	120	385		
900	117	120	685		



extra panel radiator