



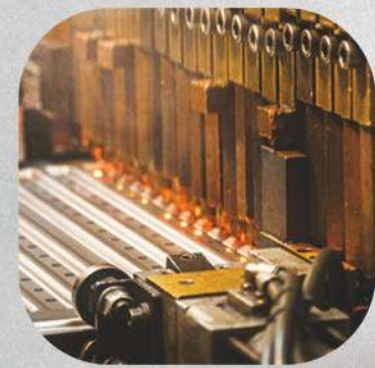
extra
panel radiator

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High Quality Raw Material, High Quality Product

High quality cold steel sheets are used in production of steel panel radiators.



Maximum Quality and Warranty

UNMAK radiators are produced according to ISO-9001 quality certificate requirements and TS EN 442 standards in facilities equipped with the latest technology. Each radiator is exposed to 13 Bar pressure test and is resistant to 10 Bar operating pressure. The warranty is 10 years.



Safety Packaging

UNMAK extra panel radiators are packed with bubblewrap and edge cardboards in order to ensure protection from external impacts during transportation and installation.

High Technology

The new facility, which is located in Izmir, has an annual radiator production capacity of 2.000.000 pcs through the instrument of fully automatic PLC-controlled production lines.



Advanced Surface Treatment

UNMAK extra panel radiators go through below processes in order to get perfect surface quality:

- Cleaning and degreasing by dipping and spraying
- Nano coating
- Iron-phosphate coating and passivation
- Wet undercoating painting
- RAL-9016 electrostatic powder coating



High Efficiency

UNMAK extra panel radiators ensure to provide the maximum thermal efficiency thanks to its 33.3mm pitch water channel and wide convector surface.



Modern and Stylish Design

UNMAK extra panel radiators have a modern appearance with smooth surface and stylish design and give aesthetic pleasure to living spaces.



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Painting Processes



Nano
Technology

Wet
Paint

Powder
Paint

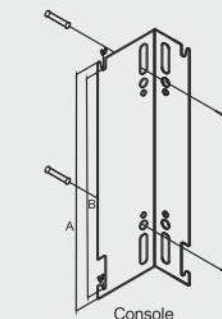
Console Dimensions

Radiator height	'L' CONSOLE SIZES	
	A (mm)	B (mm)
300	110	85
400	210	185
500	310	285
550	360	335
600	410	385
900	710	685

(TYPE10,21,22,33)

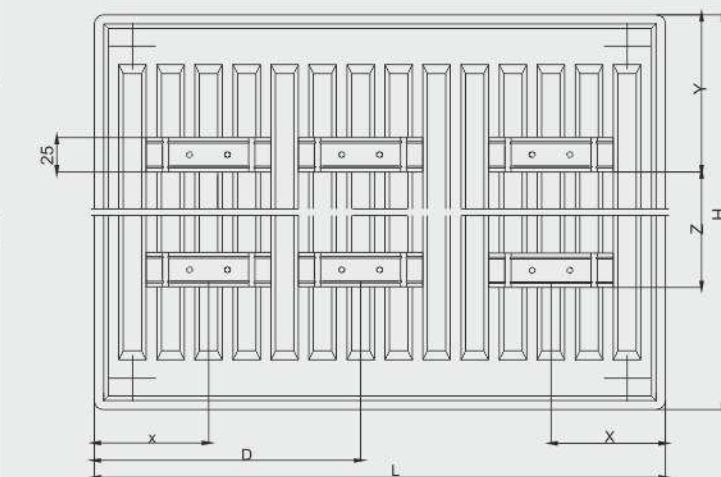
H	X	Y	Z	D
300	100	120	85	1800, 2000, up to 3000 L2 1700, 1900, up to 2900 L2-12(3,3)
400	100	120	185	
500	100	120	285	
550	100	120	285	
600	100	120	385	
900	100	120	685	

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

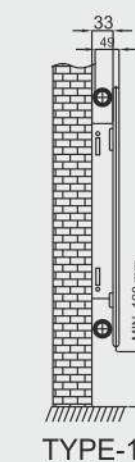


(TYPE11)

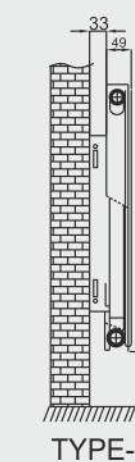
H	X	Y	Z	D
300	117	120	85	1800, 2000, up to 3000 L2 1700, 1900, up to 2900 L2-12(3,3)
400	117	120	185	
500	117	120	285	
550	117	120	335	
600	117	120	385	
900	117	120	685	



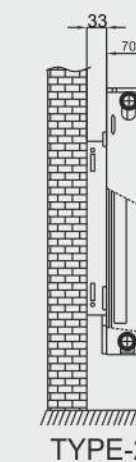
Wall Mounting



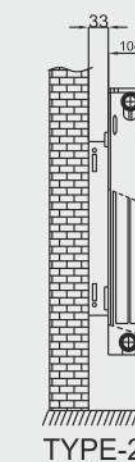
TYPE-10



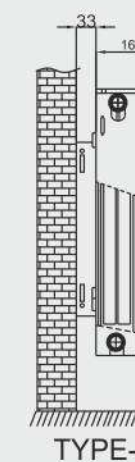
TYPE-11



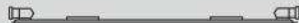
TYPE-21



TYPE-22



TYPE-33

Technical Specifications							
Top View	Type	Height (mm)	Junction axis (mm)	Width	Length min-max (mm)	Water capacity (lt/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
		900	845			4.4	17.8
	11-PK	300	245	49	400-3000	1.7	9.1
		400	345			2.1	11.1
		500	445			2.6	14.1
		550	500			2.9	15.1
		600	545			3.1	16.9
		900	845			4.4	25.5
	21-PKP	300	245	70	400-3000	3.4	14.4
		400	345			4.3	21.1
		500	445			5.1	25.9
		550	500			5.6	27.9
		600	545			6.1	29.5
		900	845			8.2	40.8
	22-PKKP	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
		900	845			8.2	48.5
	33-PKKPKP	300	245	160	400-3000	5.1	25.1
		400	345			6.2	31.9
		500	445			7.6	40.3
		550	500			8.4	43.3
		600	545			8.9	48.5
		900	845			13.1	71.6

Thermal Efficiency (ΔT 50 and ΔT 30)

TYPE P10				TYPE P11				TYPE P21			
HIGHT	n	ΔT=50°C (Watt)	ΔT=30°C (Watt)	HIGHT	n	ΔT=50°C (Watt)	ΔT=30°C (Watt)	HIGHT	n	ΔT=50°C (Watt)	ΔT=30°C (Watt)
300	1,2359	565	300	300	1,2350	678	361	300	1,2341	814	433
400	1,2377	608	323	400	1,2424	779	413	400	1,2471	998	528
500	1,2395	542	288	500	1,2497	780	412	500	1,2600	1124	590
550	1,2405	682	362	550	1,2534	943	497	550	1,2665	1305	683
600	1,2414	708	376	600	1,2571	1001	527	600	1,2730	1417	739
900	1,2715	1225	640	900	1,2744	1554	810	900	1,2773	1970	1026

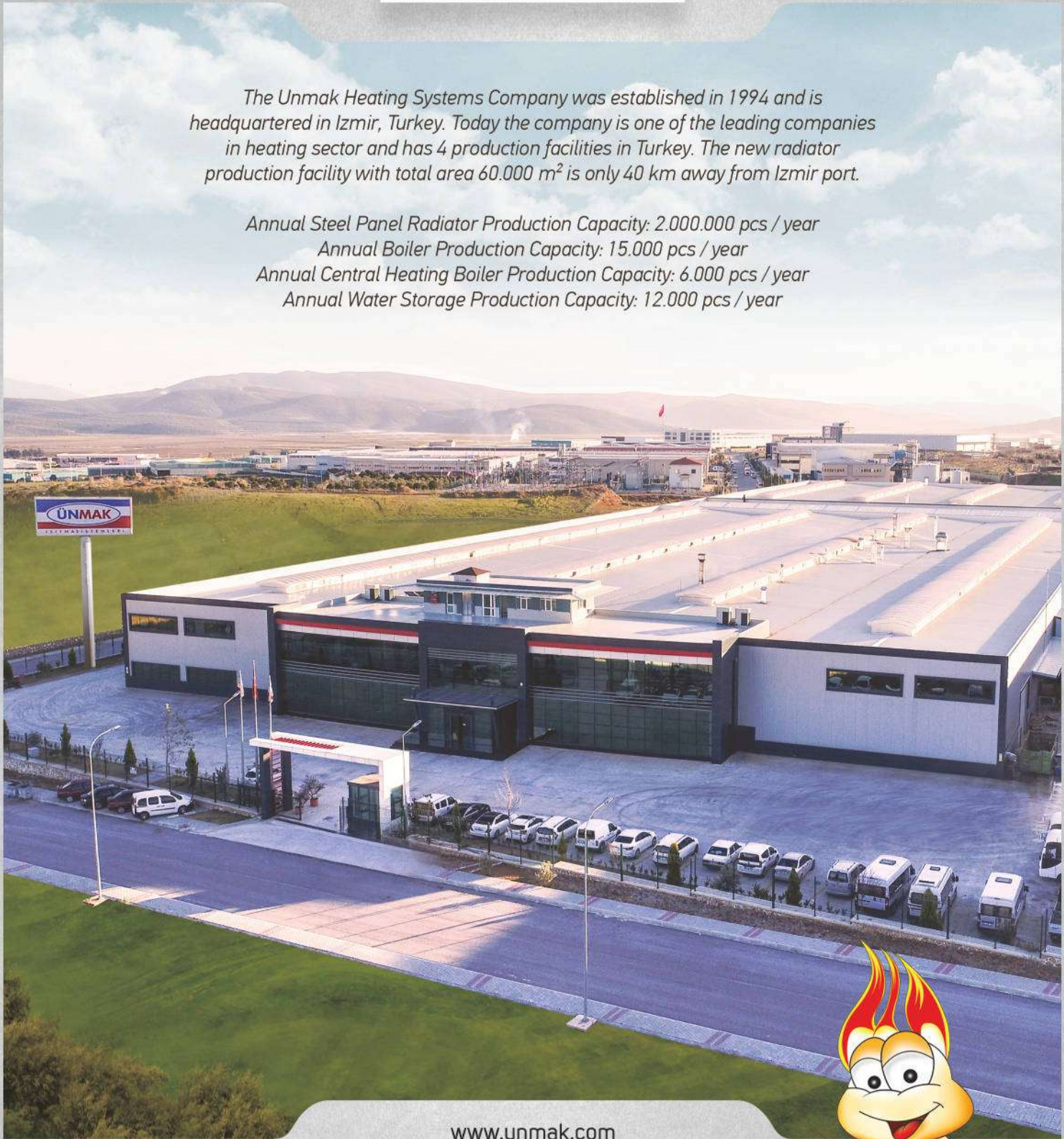
TYPE P22				TYPE P33			
HIGHT	n	ΔT=50°C (Watt)	ΔT=30°C (Watt)	HIGHT	n	ΔT=50°C (Watt)	ΔT=30°C (Watt)
300	1,2350	984	524	300	1,2341	1182	629
400	1,2424	1232	653	400	1,2471	1579	835
500	1,2497	1494	789	500	1,2600	2152	1131
550	1,2534	1630	859	550	1,2665	2255	1181
600	1,2571	1770	931	600	1,2730	2504	1307
900	1,2744	2443	1274	900	1,2773	3098	1613

MAXIMUM TEST PRESSURE	
13 BAR	
MAXIMUM OPERATING PRESSURE (STATIC PRESSURE + PUMP PRESSURE)	
10 BAR	
MAXIMUM OPERATING TEMPERATURE	
120 °C	



The Unmak Heating Systems Company was established in 1994 and is headquartered in Izmir, Turkey. Today the company is one of the leading companies in heating sector and has 4 production facilities in Turkey. The new radiator production facility with total area 60.000 m² is only 40 km away from Izmir port.

Annual Steel Panel Radiator Production Capacity: 2.000.000 pcs / year
Annual Boiler Production Capacity: 15.000 pcs / year
Annual Central Heating Boiler Production Capacity: 6.000 pcs / year
Annual Water Storage Production Capacity: 12.000 pcs / year





www.unmak.com

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