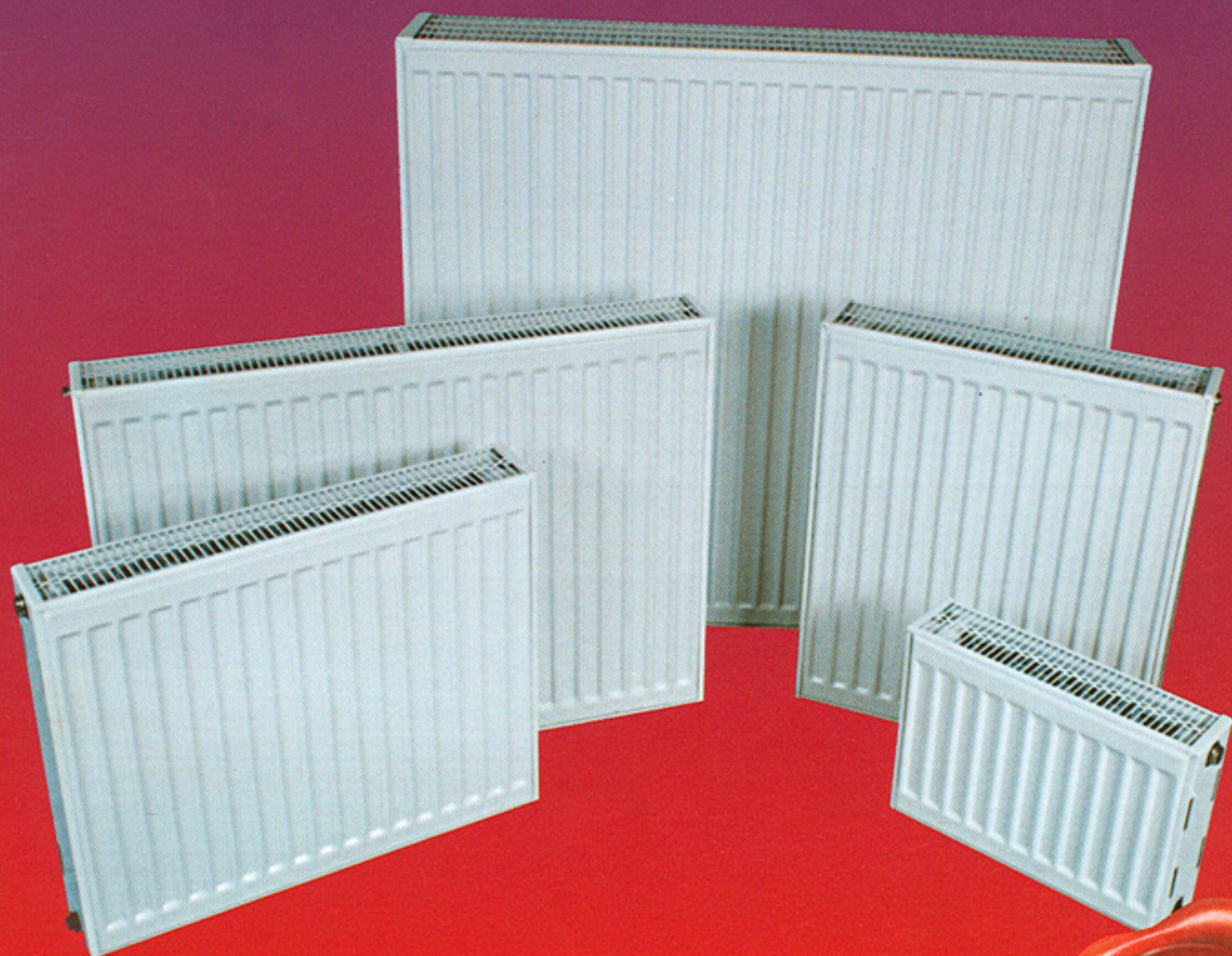




# JUGOTERM

M e r o š i n a

## ČELIČNI PANELNI RADIJATORI



Garancija  
15  
godina

## TEHNIČKE KARAKTERISTIKE:

- Materijal: dekapirani čelični lim debljine 1,25 mm  
 - Površinska obrada: fosfatiranje, grundiranje, elektrostatsko lakiranje - pečenje na temperaturi od 180°C

- Boja: **bela RAL 9010**

- Radni pritisak: **0,6 MPa = 6 bar**

- Probni pritisak: **0,9 MPa = 9 bar**

- Max. radna temperatura: **110°C**

### DIMENZIJE:

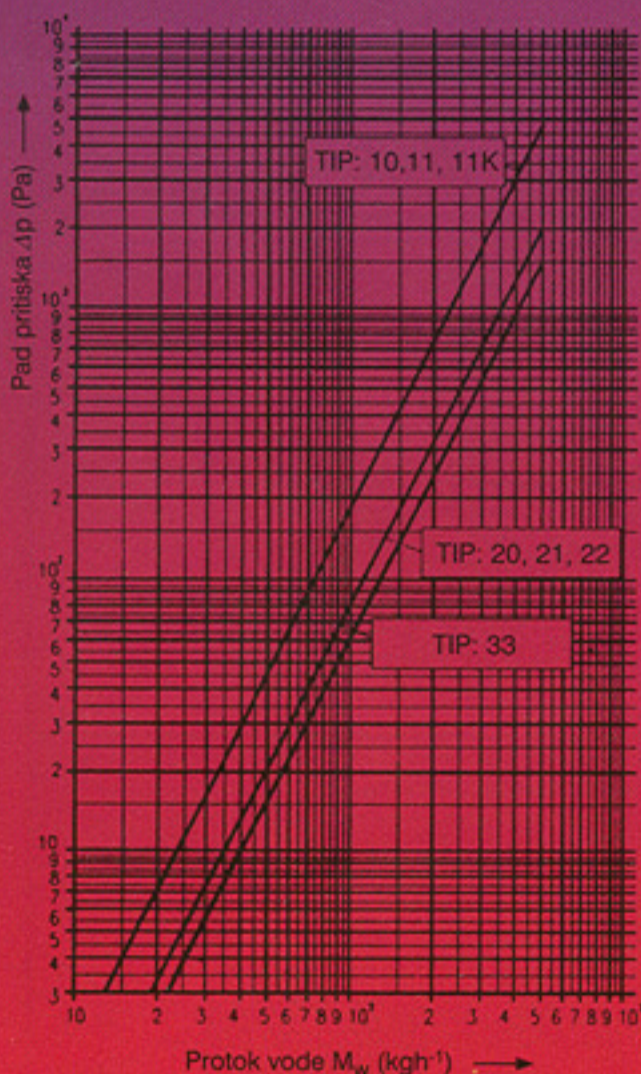
visine: **300; 500; 600; 900**

dužine: **500 ÷ 3000 mm**

debljina: **100 mm**

priključci: **R<sup>1</sup>/<sub>2</sub>"**

### DIJAGRAM PADA PRITISKA Δp (Pa)



## OBRAČUNSKI FAKTOR f ZA RAZLIČITE TEMPERATURE

Temperatura ulazne vode	Temperatura izlazne vode	Faktor f u zavisnosti od sobne temperature t <sub>i</sub> [°C] (prema eksponentu m ≈ 1,3)					
		12	15	18	20	22	24
90	85	0.73	0.77	0.82	0.85	0.88	0.92
	80	0.77	0.81	0.88	0.89	0.93	0.97
	75	0.81	0.85	0.90	0.94	0.98	1.03
	70	0.85	0.90	0.98	1.00	1.05	1.10
	65	0.90	0.95	1.02	1.07	1.12	1.17
	60	0.95	1.02	1.09	1.14	1.20	1.27
85	80	0.80	0.85	0.90	0.94	0.98	1.02
	75	0.84	0.89	0.95	0.99	1.04	1.08
	70	0.89	0.94	1.01	1.05	1.10	1.16
	65	0.94	1.00	1.07	1.12	1.18	1.24
80	75	0.88	0.94	1.00	1.05	1.10	1.15
	70	0.93	0.99	1.06	1.11	1.17	1.22
	65	0.98	1.05	1.13	1.19	1.25	1.32
	60	1.05	1.12	1.21	1.27	1.35	1.42
75	70	0.96	1.05	1.12	1.18	1.24	1.30
	65	1.04	1.11	1.19	1.26	1.33	1.40
	60	1.10	1.19	1.28	1.35	1.43	1.52
	55	1.18	1.27	1.38	1.47	1.56	1.66
	50	1.25	1.35	1.47	1.57	1.67	1.79
70	65	1.09	1.18	1.27	1.34	1.42	1.50
	60	1.17	1.26	1.36	1.44	1.53	1.63
	55	1.25	1.35	1.47	1.57	1.67	1.79
	50	1.35	1.47	1.61	1.72	1.85	1.99
	45	1.43	1.57	1.73	1.85	1.99	2.15
65	60	1.24	1.34	1.46	1.56	1.66	1.77
	55	1.33	1.44	1.58	1.68	1.80	1.94
	50	1.43	1.57	1.73	1.85	1.99	2.15
	45	1.56	1.72	1.91	2.07	2.24	2.44
	40	1.67	1.85	2.07	2.24	2.45	2.68
60	55	1.42	1.55	1.70	1.82	1.96	2.11
	50	1.53	1.68	1.87	2.02	2.18	2.36
	45	1.67	1.85	2.07	2.24	2.45	2.68
	40	1.85	2.07	2.34	2.56	2.82	3.14
55	50	1.65	1.82	2.03	2.20	2.39	2.61
	45	1.80	2.01	2.26	2.46	2.69	2.98
	40	1.99	2.24	2.56	2.82	3.12	3.50
	35	2.24	2.56	2.97	3.32	3.76	4.32
50	45	1.96	2.20	2.49	2.73	3.02	3.36
	40	2.17	2.46	2.83	3.14	3.51	3.97
	35	2.45	2.82	3.30	3.72	4.24	4.94
55	40	2.39	2.73	3.18	3.55	4.02	4.60
	35	2.70	3.14	3.72	4.24	4.89	5.76

Izračunavanje količine toplote se vrši obrascem:

$$Q_N = Q_C \cdot f$$

gde je:

$Q_N$  - količina toplote za različite temperature

$Q_C$  - količina toplote za 90/70°C

f - obračunski faktor (m ≈ 1,3)



**MEROŠINA**

Fabrika radijatora i klima uređaja

Merošina

Mramorsko brdo bb

018/694-054, 694-550

694-551, 694-552

694-328, 694-332



**METALING PLUS D.O.O.**

ПРЕДУЗЕЋЕ ЗА ПРОИЗВОДЊУ, ТРГОВИНУ И УСЛУГЕ

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# SNAGA - TEHNIČKI

TOPLOTNA MOĆ U WATT (kcal/h) ODNOSI SE NA SISTEME K



Debljina 47 mm



Debljina 47 mm

## TIP 10




## TIP 11

DUŽINA	VISINA	TIP 10					TIP 11					300
		300	400	500	600	900	300	400	500	600	900	
400	m <sup>2</sup>	0,264	0,352	0,440	0,528	0,792	0,554	0,739	0,924	1,109	1,663	0,528
	kcal/h	146	192	236	280	408	236	310	359	419	598	256
	Watt	170	224	275	326	475	274	361	418	488	685	298
500	m <sup>2</sup>	0,330	0,440	0,550	0,660	0,990	0,693	0,924	1,155	1,386	2,079	0,660
	kcal/h	183	240	296	350	510	295	388	450	524	737	320
	Watt	213	280	344	407	593	343	451	523	610	857	373
600	m <sup>2</sup>	0,396	0,528	0,660	0,792	1,188	0,862	1,109	1,386	1,663	2,495	0,792
	kcal/h	219	288	354	420	612	354	465	539	629	884	384
	Watt	255	335	412	488	712	412	541	627	731	1028	447
700	m <sup>2</sup>	0,462	0,616	0,770	0,924	1,386	0,970	1,294	1,617	1,940	2,911	0,924
	kcal/h	256	336	414	490	714	413	543	629	734	1031	448
	Watt	298	391	481	570	830	480	631	732	853	1199	522
800	m <sup>2</sup>	0,528	0,701	0,880	1,056	1,584	1,109	1,478	1,848	2,218	3,326	1,056
	kcal/h	292	384	475	560	816	472	620	719	839	1178	512
	Watt	340	447	550	651	949	549	722	836	975	1370	596
900	m <sup>2</sup>	0,594	0,792	0,990	1,188	1,782	1,247	1,663	2,079	2,495	3,742	1,188
	kcal/h	329	432	532	630	918	531	698	809	943	1326	576
	Watt	383	503	618	733	1067	617	812	941	1097	1542	671
1000	m <sup>2</sup>	0,660	0,880	1,100	1,320	1,980	1,386	1,848	2,310	2,772	4,158	1,320
	kcal/h	365	480	591	700	1020	590	775	899	1048	1473	640
	Watt	425	559	687	814	1186	686	902	1045	1219	1713	745
1200	m <sup>2</sup>	0,792	1,056	1,320	1,584	2,376	1,663	2,218	2,772	3,326	4,990	1,584
	kcal/h	439	576	709	840	1224	708	930	1078	1258	1767	769
	Watt	510	671	824	977	1432	823	1082	1254	1463	2056	894
1400	m <sup>2</sup>	0,924	1,232	1,540	1,848	2,772	1,940	2,587	3,234	3,881	5,821	1,848
	kcal/h	512	672	827	980	1428	826	1085	1258	1467	2062	897
	Watt	595	783	962	1140	1660	960	1263	1463	1707	2398	1043
1600	m <sup>2</sup>	1,056	1,408	1,760	2,112	3,168	2,218	2,957	3,696	4,435	6,653	2,112
	kcal/h	585	768	945	1120	1632	944	1240	1438	1677	2357	1020
	Watt	680	894	1099	1302	1898	1098	1443	1672	1950	2741	1192
1800	m <sup>2</sup>	1,188	1,584	1,988	2,376	3,564	2,495	3,326	4,158	4,989	7,484	2,376
	kcal/h	658	864	1063	1260	1836	1062	1395	1617	1887	2651	1153
	Watt	765	1006	1237	1465	2135	1235	1624	1881	2194	3083	1341
2000	m <sup>2</sup>	1,320	1,760	2,200	2,640	3,960	2,772	3,696	4,620	5,544	8,316	2,640
	kcal/h	731	960	1181	1400	2040	1180	1550	1797	2096	2946	1281
	Watt	850	1418	1374	1628	2372	1372	1804	2090	2438	3426	1490
2200	m <sup>2</sup>	1,452	1,936	2,420	2,904	4,356	3,049	4,066	5,082	6,098	9,148	2,904
	kcal/h	804	1056	1300	1540	2244	1298	1705	1977	2306	3240	1409
	Watt	935	1230	1511	1791	2609	1509	1984	2299	2682	3769	1639
2400	m <sup>2</sup>	1,584	2,112	2,640	3,168	4,752	3,326	4,435	5,544	6,653	9,979	3,168
	kcal/h	877	1152	1418	1680	2447	1416	1860	2156	2516	3535	1537
	Watt	1020	1342	1649	1954	2846	1646	2165	2508	2926	4111	1788
2600	m <sup>2</sup>	1,716	2,288	2,860	3,430	5,148	3,604	4,805	6,006	7,207	10,81	3,432
	kcal/h	950	1248	1536	1820	2651	1534	2015	2336	2725	3830	1666
	Watt	1105	1453	1786	2116	3084	1784	2345	2717	3169	4454	1937
2800	m <sup>2</sup>	1,848	2,464	3,080	3,696	5,544	3,881	5,174	6,468	7,762	11,64	3,696
	kcal/h	1023	1344	1654	1960	2855	1652	2170	2516	2935	4124	1794
	Watt	1190	1565	1924	2279	3321	1921	2527	2926	3413	4796	2086
3000	m <sup>2</sup>	1,980	2,640	3,300	3,960	5,940	4,158	5,544	6,930	8,316	12,47	3,960
	kcal/h	1096	1440	1772	2100	3059	1770	2325	2696	3144	4419	1922
	Watt	1275	1677	2061	2442	3558	2058	2706	3135	3657	5139	2236
Volumen vode u l/m		1,60	1,95	2,20	2,50	3,50	1,60	1,95	2,20	2,50	3,50	3,20
Težina u kg/m		6,90	9,03	10,80	13,10	19,40	9,40	12,52	15,40	18,80	28,10	13,80

NAPOMENA: Podaci o toplotnim vrednostima izraženi su prema DIN normama 1 kcal=1,163 Watt; 1 CAL=4,1863 J; 1Wh=3,6 KJ

# KLIMATIČKI PODACI - MERE

OD KOJIH JE TEMPERATURA NAPOJNE VODE 90°C, POVRATNE VODE 70°C I PROSTORIJE 20°C

 Debljina 100 mm				 Debljina 100 mm					 Debljina 155 mm				
TIP 20				TIP 22					TIP 33				
400	500	600	900	300	400	500	600	900	300	400	500	600	900
0,704	0,880	1,056	1,584	1,109	1,492	1,848	2,218	3,326	1,663	2,218	2,772	3,326	4,990
337	414	486	682	428	564	654	761	1052	600	788	908	1050	1424
392	482	565	793	498	654	761	886	1224	698	917	1056	1221	1656
0,880	1,100	1,320	1,980	1,386	1,865	2,310	2,772	4,158	2,079	2,772	3,465	4,158	6,235
421	518	607	852	536	705	818	952	1316	750	985	1136	1313	1780
490	602	706	991	622	818	951	1107	1530	872	1146	1321	1527	2070
1,056	1,320	1,584	2,376	1,663	2,237	2,772	3,326	4,990	2,495	3,326	4,158	4,990	7,484
505	621	728	1023	642	845	981	1142	1579	900	1182	1363	1575	2136
587	722	847	1189	746	981	1141	1328	1836	1046	1375	1585	1832	2484
1,232	1,540	1,848	2,772	1,940	2,610	3,234	3,881	5,821	2,911	3,881	4,851	5,821	8,729
589	725	850	1193	749	986	1145	1333	1842	1050	1379	1590	1838	2492
685	843	988	1387	871	1145	1331	1550	2142	1221	1604	1849	2137	2898
1,408	1,760	2,112	3,168	2,218	2,983	3,696	4,435	6,653	3,326	4,435	5,544	6,653	9,979
674	828	971	1363	856	1127	1308	1523	2105	1200	1576	1817	2100	2848
783	963	1130	1586	995	1308	1522	1771	2448	1395	1834	2113	2242	3112
1,584	1,980	2,376	3,564	2,495	3,356	4,158	4,990	7,484	3,742	4,990	6,237	7,484	11,22
756	932	1093	1534	963	1268	1472	1714	2368	1350	1773	2044	2363	3204
881	1084	1271	1784	1120	1472	1712	1993	2754	1570	2063	2377	2748	3726
1,760	2,200	2,640	3,960	2,772	3,729	4,620	5,544	8,316	4,158	5,544	6,930	8,316	12,47
842	1035	1214	1704	1070	1409	1636	1904	2631	1500	1970	2271	2625	3560
979	1204	1412	1982	1244	1635	1902	2214	3060	1744	2292	2641	3053	4140
2,112	2,640	3,168	4,752	3,326	4,475	5,544	6,653	9,979	4,990	6,653	8,316	9,979	14,97
1010	1242	1457	2045	1284	1691	1963	2284	3157	1799	2364	2725	3150	4272
1175	1445	1694	2378	1493	1962	2282	2657	3672	2093	2750	3169	3664	4968
2,464	3,080	3,696	5,544	3,881	5,221	6,468	7,762	11,64	5,821	7,762	9,702	11,64	17,46
1179	1449	1700	2386	1498	1973	2290	2665	3684	2099	2758	3179	3675	4984
1371	1686	1977	2775	1742	2289	2663	3100	4284	2442	3209	3697	4274	5796
2,816	3,520	4,224	6,336	4,435	5,966	7,392	8,870	13,31	6,653	8,870	11,09	13,31	19,96
1347	1656	1943	2727	1711	2254	2617	3046	4210	2399	3152	3633	4200	5696
1566	1926	2259	3171	1990	2616	3043	3542	4896	2790	3667	4226	4885	6624
3,168	3,960	4,752	7,128	4,990	6,712	8,316	9,979	14,97	7,484	9,979	12,47	14,97	22,45
1515	1863	2185	3068	1925	2536	2944	3427	4736	2699	3546	4088	4725	6408
1762	2167	2594	3568	2239	2943	3424	3985	5508	3139	4126	4754	5495	7452
3,520	4,400	5,280	7,920	5,544	7,458	9,240	11,09	16,63	8,316	11,09	13,86	16,63	24,95
1684	2071	2428	3408	2139	2818	3271	3807	5262	3000	3940	4542	5250	7120
1958	2408	2824	3964	2488	3270	3804	4428	6120	3488	4584	5282	6106	8280
3,870	4,840	5,808	8,712	6,098	8,204	10,16	12,20	18,30	9,148	12,20	15,25	18,29	27,44
1852	2278	2671	3749	2353	3100	3598	4188	5788	3299	4334	4996	5775	7831
2154	2649	3106	4360	2737	3597	4184	4871	6732	3837	5042	5810	6717	9108
4,224	5,280	6,336	9,504	6,653	8,950	11,09	13,31	19,96	9,979	13,30	16,63	19,96	29,94
2021	2485	2914	4090	2567	3382	3925	4569	6315	3599	4728	5450	6300	8543
2349	2890	3389	4757	2986	3924	4565	5314	7344	4186	5500	6338	7327	9936
4,576	5,720	6,864	10,30	7,207	9,695	12,01	14,41	21,66	10,81	14,41	18,02	21,62	32,43
2189	2692	3157	4431	2781	3663	4252	4950	6841	3899	5122	5904	6825	9255
2545	3130	3671	5153	3234	4251	4945	5756	7956	4534	5959	6867	7938	10764
4,928	6,160	7,392	11,09	7,762	10,44	12,94	15,52	23,28	11,64	15,52	19,40	23,28	34,93
2358	2899	3399	4772	2995	3945	4579	5330	7367	4199	5516	6358	7350	9967
2741	3371	3954	5550	3483	4578	5326	6199	8568	4883	6418	7395	8548	11592
5,50	6,600	7,920	11,88	8,316	11,19	13,86	16,63	24,95	12,47	16,63	20,79	24,95	37,42
2526	3106	3642	5113	3209	4227	4906	5711	7893	4499	5910	6813	7875	10679
2937	3612	4236	5946	3732	4905	5706	6642	9180	5232	6876	7923	9159	12420
3,90	4,40	5,00	7,00	3,22	3,90	4,40	5,00	7,00	4,80	5,85	6,60	7,50	10,50
18,05	21,60	26,20	38,80	18,90	24,82	31,30	38,00	57,80	28,50	37,50	46,30	57,00	86,00