

FERROLI STEEL PANEL RADIATORS

- 5 different types
- 5 different heights
- 20 different lengths
- High performance
- Durability

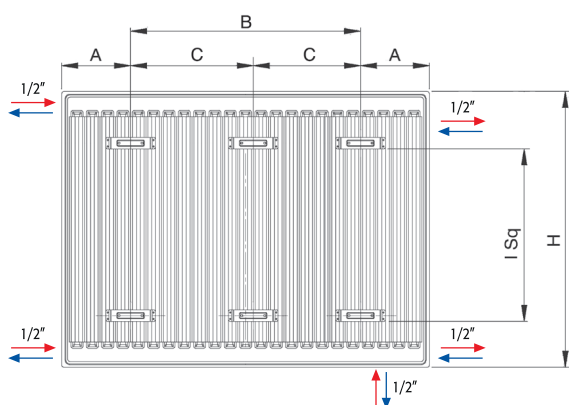


FEATURES



- 5 different types: Type 11, Type 20, Type 21, Type 22, Type 33.
- 5 different heights: 300, 400, 500, 600, 900 mm.
- 20 different lengths between 400 - 3000 mm.
- 4 or 6 connections radiators are subjected to surface special treatment to assure a perfect coating and resistance to corrosion.
- Afterwards, radiators are carefully coated with primer paint and RAL 9016 white epoxy polyester powder paint.
- Convectors are directly welded on the wet ducts of the radiator to minimize the thermal losses and get maximum performance.
- Optionally equipped with compact plug or insert regulation valve.
- Maximum working pressure: 10 bars.
- Each radiator is tested at 13 bar pressure.
- Protected against damages during shipping and storage by strong packaging system.
- Easy-to-clean thanks to removable top grills and side covers.
- Ferroli Steel Panel radiators are produced according to EN 442 standard.

DIMENSIONS



Panel Types

11-20-21-22-33

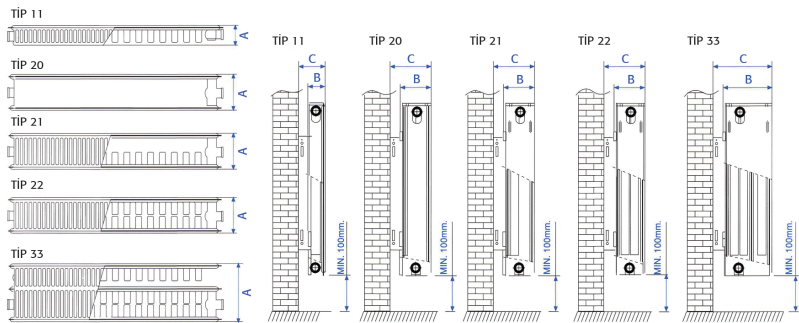
H I Sq

300	142
400	192
500	247
600	347
900	647

L (mm.)	WALL HANGERS QTY	Type 11 (PK), Type 20 (PP), Type 21 (PKP), Type 22 (PKKP), Type 33 (PKPKP)		
		A (mm.)	B (mm.)	C (mm.)
400	4	83,5	233	-
500	4	116,5	267	-
600	4	116,5	367	-
700	4	116,5	467	-
800	4	116,5	567	-
900	4	116,5	667	-
1000	4	116,5	767	-
1100	4	116,5	867	-
1200	4	116,5	967	-
1300	4	116,5	1067	-
1400	4	116,5	1167	-
1500	4	116,5	1267	-
1600	6	116,5	-	683,5
1800	6	116,5	-	783,5
2000	6	116,5	-	883,5
2200	6	116,5	-	983,5
2400	6	116,5	-	1083,5
2600	6	116,5	-	1183,5
2800	6	116,5	-	1283,5
3000	6	116,5	-	1383,5

As part of its efforts to constantly improve its range of products, with the aim of increasing the level of customer satisfaction, Ferroli informs that the appearance, dimensions, technical data and accessories may be subject to variation.

RADIATOR TYPES



	Unit	Type 11	Type 20	Type 21	Type 22	Type 33
A						
Radiator thickness	mm.	56	66	66	104	160
Radiator thickness with covers	mm.	66	66	66	104	160
B						
Radiator thickness with bracket	mm.	61	72.2	72.2	110.2	166.2
C						
Total depth with wall hanger (long side)	mm.	99	110.2	110.2	148.2	204.2
Total depth with wall hanger (short side)	mm.	84	95.2	95.2	133.2	189.2

STANDARD ACCESSORIES

Ferrol steel panel radiators are equipped as a standard in the package with wall brackets, fischer screws, one blind plug and one air vent. For 6-connection-radiators, such accessories are available upon request.



QUALITY PACKAGING

In order to minimize the damages during shipping and storage;

- Side lids of the panel radiator's are covered with cardboard
- Plastic suspension bracket protector placed on suspensions
- Plastic side protectors placed to prevent smashing
- Steel radiator completely covered with bubble nylon and shrinking nylon to be ready for shipping



OUTPUT ACCORDING TO EN442		55/45°C CH INLET/OUTLET	
ROOM TEMPERATURE		20°C	
OUTPUT PER METER			
TYPE	H(mm)	(W)	(KCal/h)
11	300	231	198
11	400	311	267
11	500	388	333
11	600	460	395
11	900	639	550
20	300	284	244
20	400	361	311
20	500	436	375
20	600	508	437
20	900	713	613
21	300	369	317
21	400	472	406
21	500	571	491
21	600	663	570
21	900	909	782
22	300	479	412
22	400	611	525
22	500	735	632
22	600	853	733
22	900	1210	1041
33	300	688	591
33	400	884	760
33	500	1067	918
33	600	1241	1067
33	900	1676	1441

WEIGHT and WATER CONTENT PER METER

Type	Height	Unit	300	400	500	600	900
11	Weight	kg	7.7	10.4	13.1	15.8	24.2
	Water content	litre	1.7	2.1	2.6	3.0	4.2
20	Weight	kg	11.3	15.1	18.9	22.7	34.0
	Water content	litre	3.3	4.2	5.1	5.9	8.2
21	Weight	kg	13.3	17.9	22.4	26.9	40.8
	Water content	litre	3.3	4.2	5.1	5.9	8.2
22	Weight	kg	15.3	20.5	25.8	31.1	47.3
	Water content	litre	3.3	4.2	5.1	5.9	8.2
33	Weight	kg	22.9	30.7	38.6	46.5	70.7
	Water content	litre	4.4	5.8	7.2	8.6	12.7

THERMAL POWER CHART (Watt)										Height (mm)	
	L (mm.)	300		400		500		600		900	
		n 1.31042	Km 2.67558	n 1.30793	Km 3.63458	n 1.30542	Km 4.57361	n 1.30291	Km 5.47064	n 1.30915	n 1.30915
		ΔT 50°C	ΔT 60°C	ΔT 50°C	ΔT 60°C	ΔT 50°C	ΔT 60°C	ΔT 50°C	ΔT 60°C	ΔT 50°C	ΔT 60°C
TYPE 11	400	180	229	242	308	302	383	358	454	499	634
	500	225	286	303	385	378	479	447	567	624	792
	600	270	343	364	462	453	575	537	681	749	951
	800	361	458	485	616	604	767	716	908	998	1268
	900	406	515	546	693	680	863	805	1021	1123	1426
	1000	451	572	606	769	755	958	895	1135	1248	1584
	1100	496	629	667	846	831	1054	984	1248	1373	1743
	1200	541	687	727	923	906	1150	1074	1362	1498	1901
	1300	586	744	788	1000	982	1246	1163	1475	1622	2060
	1400	631	801	849	1077	1058	1342	1253	1588	1747	2218
	1500	676	858	909	1154	1133	1438	1342	1702	1872	2377
	1600	721	916	970	1231	1209	1533	1432	1815	1997	2535
	1800	811	1030	1091	1385	1360	1725	1610	2042	2246	2852
	2000	901	1145	1212	1539	1511	1917	1789	2269	2496	3169
	2200	991	1259	1334	1693	1662	2108	1968	2496	2746	3486
	2300	1036	1316	1394	1770	1737	2204	2058	2610	2870	3644
TYPE 20	400	222	282	282	358	340	432	396	503	558	708
	500	278	353	353	448	425	540	495	628	697	886
	600	333	423	423	538	510	647	594	754	836	1063
	800	444	564	565	717	680	863	792	1005	1115	1417
	900	500	630	635	806	765	971	891	1131	1255	1594
	1000	555	705	706	896	850	1079	990	1257	1394	1771
	1100	611	776	776	986	935	1187	1090	1382	1533	1948
	1200	667	847	847	1075	1020	1295	1189	1508	1673	2125
	1300	722	917	917	1165	1105	1403	1288	1634	1812	2303
	1400	778	988	988	1254	1190	1511	1387	1760	1952	2480
	1500	833	1058	1059	1344	1275	1619	1486	1885	2091	2657
	1600	889	1129	1129	1434	1360	1727	1585	2011	2230	2834
	1800	1000	1270	1270	1613	1530	1942	1783	2262	2509	3188
	2000	1111	1411	1411	1792	1700	2158	1981	2514	2788	3542
	2200	1222	1552	1552	1971	1870	2374	2179	2765	3067	3897
	2300	1278	1623	1623	2061	1955	2482	2278	2891	3206	4074
TYPE 21	400	289	367	371	472	449	571	523	666	721	921
	500	361	459	463	589	561	714	653	832	902	1151
	600	433	550	556	707	673	857	784	999	1082	1382
	800	578	734	741	943	898	1143	1045	1332	1443	1842
	900	650	826	834	1061	1010	1286	1176	1498	1623	2073
	1000	722	917	927	1179	1122	1428	1307	1665	1803	2303
	1100	794	1009	1019	1297	1234	1571	1437	1831	1984	2533
	1200	866	1101	1112	1415	1347	1714	1568	1998	2164	2763
	1300	938	1193	1205	1532	1459	1857	1699	2164	2344	2994
	1400	1011	1284	1298	1650	1571	2000	1829	2330	2525	3224
	1500	1083	1376	1390	1768	1683	2143	1960	2497	2705	3454
	1600	1155	1468	1483	1886	1795	2285	2091	2663	2885	3684
	1800	1298	1651	1668	2122	2022	2571	2352	2996	3246	4145
	2000	1444	1835	1854	2358	2244	2857	2613	3329	3606	4606
	2200	1588	2018	2039	2593	2469	3142	2875	3662	3967	5066
	2300	1660	2110	2132	2711	2581	3285	3005	3829	4147	5296
TYPE 22	400	372	472	478	608	580	739	678	866	954	1215
	500	465	590	595	765	725	925	847	1082	1192	1519
	600	558	708	717	912	870	1108	1016	1299	1431	1822
	800	744	944	956	1215	1160	1478	1355	1731	1907	2430
	900	837	1062	1076	1367	1304	1662	1525	1948	2146	2733
	1000	930	1179	1195	1519	1449	1847	1694	2164	2384	3037
	1100	1023	1297	1315	1671	1594	2032	1863	2381	2623	3341
	1200	1117	1415	1434	1823	1739	2216	2035	2597	2861	3656
	1300	1210	1533	1575	1984	1894	2401	2202	2813	3100	3949
	1400	1303	1651	1674	2127	2029	2586	2372	3030	3338	4252
	1500	1396	1769	1793	2279	2174	2770	2541	3246	3577	4556
	1600	1489	1887	1913	2431	2319	2955	2710	3463	3815	4859
	1800	1675	2123	2152	2735	2609	3324	3049	3896	4292	5467
	2000	1861	2359	2391	3039	2899	3694	3388	4328	4769	6074
	2200	2047	2590	2630	3342	3189	4063	3727	4761	5246	6682
	2300	2140	2713	2749	3494	3334	4248	3896	4978	5484	6985
TYPE 33	400	536	680	689	875	833	1058	969	1231	1326	1691
	500	670	850	862	1093	1041	1322	1212	1539	1657	2114
	600	804	1030	1034	1312	1250	1586	1454	1847	1989	2537
	800	1072	1360	1378	1749	1666	2115	1939	2462	2651	3382
	900	1206	1529	1551	1968	1874	2380	2181	2770	2983	3805
	1000	1340	1699	1723	2187	2083	2644	2424	3078	3314	4228
	1100	1473	1869	1895	2405	2291	2908	2666	3385	3646	4650
	1200	1607	2039	2068	2624	2499	3173	2908	3693	3977	5073
	1300	1741	2209	2240	2843	2708	3437	3151	4001	4309	5496
	1400	1875	2379	2412	3061	2916	3702	3399	4309	4640	5919
	1500	2009	2549	2585	3280	3124	3966	3635	4616	4971	6341
	1600	2143	2719	2757	3499	3332	4230	3878	4924	5303	6764
	1800	2411	3059	3102	3936	3749	4759	4362	5540	5966	7610
	2000	2679	3399	3446	4373	4166	5288	4847	6155	6629	8455
	2200	2947	3739	3791	4811	4582	5817	5332	6771	7291	9301
	2300	3081	3909	3963	5029	4790	6081	5574	7078	7623	9723
TYPE 33	2400	3215	4079	4135	5248	4999	6345	5817	7386	7954	10146
	2600	3483	4418	4480	5685	5415	6874	6301	8002	8617	10992
	2800	3751	4758	4825	6123	5832	7403	6786	8617	9280	11837
	3000	4019	5098	5169	6560	6248	7932	7271	9233	9943	12683

Thermal output in WATT
 (according to the EN 442 standards, with $\Delta T = 50^{\circ}\text{C}$ & $\Delta T = 60^{\circ}\text{C}$)
 Characteristic equation for output per meter $\varnothing = K_m \Delta T^n$