

## FERROLI STEEL PANEL RADIATORS

- 5 different types
- 6 different heights
- 21 different lengths
- High performance
- Durability



# FEATURES



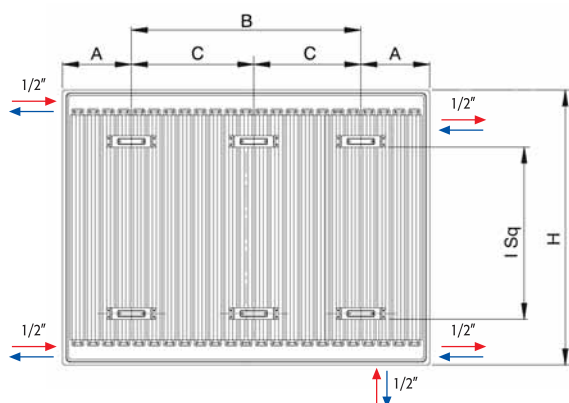
- 5 different types: Type 11, Type 20, Type 21, Type 22, Type 33.
- 6 different heights: 300, 400, 500, 600, 700, 900 mm.
- 21 different lengths between 400 - 3000 mm.
- 4 or 6 connections models total range of 1260 available choices radiators are subjected to surface special treatment to assure a perfect coating and resistance to corrosion.
- Afterwards, radiators are carefully coated with primer paint and RAL 9010 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.
- Ferrol Steel Panel radiators are produced according to EN 442 standard.

## STEEL RADIATORS EQUIPPED WITH COMPACT PLUG/VALVE

Bottom connections radiators equipped with compact plugs/valves allow connections from below. Radiators with insert valves, besides providing efficient and economic heating, keep the connection pipes invisible and thus, are highly aesthetic.



## DIMENSIONS

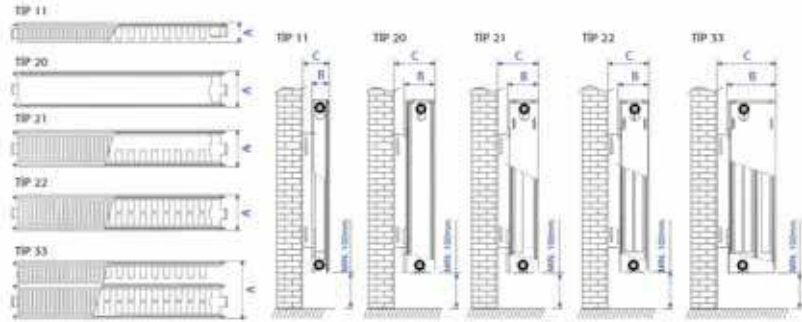


Panel Types 11-20-21-22-33	
H	I Sq
300	142
400	192
500	250
600	347
700	451
900	647

L (mm)	WALL HANGERS QTY	Type 11 (PK)			Type 20 (PP) - Type 21 (PKP) Type 22 (PKKP) - Type 33 (PKKPKP)		
		A (mm)	B (mm)	C (mm)	A (mm)	B (mm)	C (mm)
400	4	83.5	233	-	83.5	233	-
500	4	150	200	-	116.5	267	-
600	4	150	300	-	116.5	367	-
700	4	150	400	-	116.5	467	-
800	4	150	500	-	116.5	567	-
900	4	150	600	-	116.5	667	-
1000	4	150	700	-	116.5	767	-
1100	4	150	800	-	116.5	867	-
1200	4	150	900	-	116.5	967	-
1300	4	150	1000	-	116.5	1067	-
1400	4	150	1100	-	116.5	1167	-
1500	4	150	1200	-	116.5	1267	-
1600	6	150	-	650	116.5	-	683.5
1800	6	150	-	750	116.5	-	783.5
2000	6	150	-	850	116.5	-	883.5
2200	6	150	-	950	116.5	-	983.5
2300	6	150	-	1000	116.5	-	1033.5
2400	6	150	-	1050	116.5	-	1084
2600	6	150	-	1150	116.5	-	1183.5
2800	6	150	-	1250	116.5	-	1283.5
3000	6	150	-	1350	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, Ferrol 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

Ferrolli 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	700	525	452
11	900	639	550
20	300	284	244
20	400	361	311
20	500	436	375
20	600	508	437
20	700	578	497
20	900	713	613
21	300	369	317
21	400	472	406
21	500	571	491
21	600	663	570
21	700	750	645
21	900	909	782
22	300	479	412
22	400	611	525
22	500	735	632
22	600	853	733
22	700	974	838
22	900	1210	1041
33	300	688	591
33	400	884	760
33	500	1067	918
33	600	1241	1067
33	700	1396	1200
33	900	1676	1441

# WEIGHT and WATER CONTENT

Type	Height	Unit	300	400	500	600	700	900
11	Weight	kg	7.7	10.4	13.1	15.8	18.6	24.2
	Water content	litre	1.7	2.1	2.6	3.0	3.4	4.2
20	Weight	kg	11.3	15.1	18.9	22.7	26.5	34.0
	Water content	litre	3.3	4.2	5.1	5.9	6.7	8.2
21	Weight	kg	13.3	17.9	22.4	26.9	31.6	40.8
	Water content	litre	3.3	4.2	5.1	5.9	6.7	8.2
22	Weight	kg	15.3	20.5	25.8	31.1	36.6	47.3
	Water content	litre	3.3	4.2	5.1	5.9	6.7	8.2
33	Weight	kg	22.9	30.7	38.6	46.5	54.7	70.7
	Water content	litre	4.4	5.8	7.2	8.6	10.0	12.7



Δ50 °C : Troom = 20 °C Tin= 75 °C Tout = 65 °C  
ΔT60 °C : Troom = 20 °C Tin= 90 °C Tout = 70 °C

TYPE	THERMAL POWER CHART (Watt)											Height (mm)																									
	L (mm.)	300		400		500		600		700		900		n 1.31042	Km 0.089186	n 1.30793	Km 0.121153	n 1.30542	Km 0.152454	n 1.30291	Km 0.182355	n 1.30498	Km 0.206875	n 1.30915	Km 0.248231												
		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	ΔT 50 °C	ΔT 60 °C																								
TYPE 11	400	180	229	242	308	302	383	358	454	409	519	499	634	500	225	286	303	385	378	447	512	649	624	792													
	500	270	343	364	462	453	575	537	681	614	779	749	951	700	335	401	424	539	529	671	794	909	874	1109													
	600	361	458	485	616	604	767	716	908	819	1039	998	1268	900	406	515	546	693	680	805	1021	1168	1123	1426													
	700	451	572	606	769	755	958	895	1135	1023	1298	1248	1584	1000	496	629	667	846	831	1054	1248	1428	1373	1743													
	800	541	687	727	923	906	1150	1074	1362	1228	1558	1498	1901	1100	586	744	788	1000	982	1246	1465	1688	1622	2060													
	1200	631	801	849	1077	1058	1342	1253	1588	1423	1817	1747	2218	1400	676	858	909	1154	1133	1438	1702	1947	1872	2377													
	1500	721	916	970	1231	1209	1533	1432	1815	1637	2077	1997	2535	1600	811	1030	1091	1385	1360	1725	2042	2337	2246	2852													
	1800	801	1030	1091	1385	1360	1725	1610	2042	1842	2337	2246	2852	2000	901	1145	1212	1539	1511	1917	2269	2607	2596	2496	3169												
	2200	991	1259	1334	1693	1662	2108	1968	2496	2251	2856	2746	3486	2300	1036	1316	1394	1770	1757	2300	2658	3016	2986	2870	3644												
	2500	1082	1401	1455	1847	1823	2304	2058	2610	2354	2986	2870	3644	2600	1172	1488	1576	2001	1964	2492	2850	3212	3116	2995	3803												
	2800	1262	1602	1697	2155	2115	2683	2505	3177	2865	3635	3494	4437	2800	1352	1717	1819	2308	2266	2684	3040	3407	3394	3245	4120												
	3000	1352	1717	1819	2308	2266	2875	2684	3404	3070	3894	3744	4753	TYPE 20	TYPE 20	L (mm.)	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	
	400	222	282	282	358	340	432	396	503	451	572	558	708	500		278	353	353	448	425	540	495	628	564	716	697	886										
	500	333	423	423	538	510	647	594	754	676	859	836	1063	600		389	494	494	627	595	755	693	880	789	1002	976	1240										
	600	485	654	654	825	801	1007	923	1176	1065	1347	1315	1671	700		500	655	655	806	765	971	891	1131	1015	1288	1255	1594										
	800	555	705	705	896	850	1079	990	1257	1127	1431	1394	1771	900		611	776	776	986	935	1187	1090	1382	1240	1574	1533	1948										
	900	667	847	847	1075	1020	1295	1189	1508	1353	1717	1673	2125	1000		722	917	917	1165	1105	1403	1288	1634	1466	1861	1812	2303										
	1100	778	988	988	1254	1190	1511	1387	1760	1578	2004	1952	2480	1200		835	1058	1058	1344	1275	1619	1486	1885	1691	2147	2091	2657										
	1200	889	1129	1129	1434	1360	1727	1585	2011	1804	2290	2230	2834	1300		938	1193	1205	1532	1459	1857	1699	2164	1926	2456	2344	2994										
	1300	1000	1270	1270	1613	1530	1942	1785	2262	2029	2576	2509	3188	1400		1011	1284	1298	1650	1571	2000	1829	2330	2074	2644	2525	3224										
1400	1111	1411	1411	1792	1700	2158	1981	2514	2255	2862	2788	3542	1500	1083		1376	1390	1768	1683	2143	1960	2497	2222	2835	2705	3454											
1500	1222	1552	1552	1971	1870	2374	2179	2765	2480	3149	3067	3897	1600	1144		1444	1444	1854	1755	2211	2006	2575	2302	2921	2824	3605											
1600	1278	1623	1623	2061	1955	2482	2278	2891	2593	3292	3206	4074	1700	1222		1552	1552	1971	1870	2374	2179	2765	2480	3149	3067	3897											
1800	1353	1735	1735	2150	2040	2590	2377	3016	2706	3435	3346	4251	1900	1353		1735	1735	2150	2040	2590	2377	3016	2706	3435	3346	4251											
2000	1444	1854	1854	2350	2211	2806	2575	3271	2921	3621	3504	4405	2100	1444		1854	1854	2350	2211	2806	2575	3271	2921	3621	3504	4405											
2200	1555	1975	1975	2509	2381	3022	2773	3519	3157	4007	3903	4959	2300	1555		1975	1975	2509	2381	3022	2773	3519	3157	4007	3903	4959											
2500	1666	2116	2116	2688	2551	3237	2971	3770	3382	4294	4182	5314	TYPE 21	TYPE 21		L (mm.)	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	
400	289	367	371	472	449	571	523	666	593	756	721	921	500			361	459	463	589	561	714	653	832	741	944	902	1151										
500	433	550	556	707	673	857	784	999	889	1133	1082	1382	600			505	642	649	825	785	1000	915	1165	1037	1322	1262	1612										
700	578	734	741	943	898	1143	1045	1352	1185	1511	1443	1842	800			655	825	825	1031	1010	1276	1176	1488	1353	1700	1623	2073										
800	722	917	927	1179	1122	1428	1307	1665	1481	1889	1803	2303	900			794	1009	1019	1297	1234	1571	1437	1831	1630	2078	1984	2533										
900	866	1101	1112	1415	1347	1714	1568	1998	1778	2267	2164	2763	1000		938	1193	1205	1532	1459	1857	1699	2164	1926	2456	2344	2994											
1100	1011	1284	1298	1650	1571	2000	1829	2330	2074	2644	2525	3224	1200		1083	1376	1390	1768	1683	2143	1960	2497	2222	2835	2705	3454											
1200	1144	1444	1444	1854	1755	2211	2006	2575	2302	2921	2824	3605	1300		1144	1444	1444	1854	1755	2211	2006	2575	2302	2921	2824	3605											
1300	1222	1552	1552	1971	1870	2374	2179	2765	2480	3149	3067	3897	1400		1222	1552	1552	1971	1870	2374	2179	2765	2480	3149	3067	3897											
1400	1278	1623	1623	2061	1955	2482	2278	2891	2593	3292	3206	4074	1500		1353	1735	1735	2150	2040	2590	2377	3016	2706	3435	3346	4251											
1500	1444	1854	1854	2350	2211	2806	2575	3271	2921	3621	3504	4405	1600		1444	1854	1854	2350	2211	2806	2575	3271	2921	3621	3504	4405											
1600	1555	1975	1975	2509	2381	3022	2773	3519	3157	4007	3903	4959	1700		1555	1975	1975	2509	2381	3022	2773	3519	3157	4007	3903	4959											
1800	1666	2116	2116	2688	2551	3237	2971	3770	3382	4294	4182	5314	1900		1666	2116	2116	2688	2551	3237	2971	3770	3382	4294	4182	5314											
TYPE 22	TYPE 22	L (mm.)	n	Km	n	Km	n	Km	n	Km	n	Km	n		Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km	n	Km
400		372	472	478	608	580	739	678	866	772	986	954	1215		500	465	590	598	760	725	923	847	1082	965	1232	1192	1519										
500		558	708	717	912	870	1108	1016	1299	1158	1478	1431	1822		600	651	826	837	1063	1015	1293	1186	1515	1351	1725	1669	2126										
700		744	944	956	1215	1160	1478	1355	1731	1544	1971	1907	2430		800	837	1063	1063	1344	1285	1622	1488	1875	1725	2218	2146	2733										
900		930	1179	1195	1519	1449	1847	1694	2164	1931	2464	2384	3037		1000	1023	1297	1315	1671	1594	2032	1863	2381	2124	2710	2623	3341										
1100		1117	1415	1434	1823	1739	2216	2033	2597	2317	2957	2861	3645		1200	1210	1533	1554	1975	1884	2401	2202	2813	2510	3203	3100	3948										
1300		1303	1651	1674	2127	2029	2586	2372	3030	2703	3449	3338	4252		1400	1396	1769	1793	2279	2174	2770	2541	3246	2896	3696	3577	4556										
1500		1489	1889	1915	2431	2319	2955	2710	3463	3089	3942	3815	4859	1600	1489	1889	1889	2431	2319	2955	2710	3463	3089	3942	3815	4859											
1800		1675	2123	2152	2735	2609	3324	3049	3896	3475	4435	4292	5467	2000	1661	2139	2139	2735	2609	3324	3049	3896	3475	4435	4292	5467											
2200		2047	2595	2630	3342	3189	4063	3727	4761	4247	5421	5246	6682	2300	2140	2713	2749	3494	3334	4248	3896	4978	4440	5667	5484	6985											
2500		2233	2831	2869	3646	3479	4433	4066	5194	4633	5913	5722	7289	2600	2419	3067	3108	3950	3768	4802	4405	5627	5019	6406	6199	7897											
2800		2505	3203	3247	4254	4058	5171	4743	6060	5405	6899	6766	8504	3000	2791	3538	3586	4558	4348	5541	5082	6493	5792	7392	7153	911											