

FERROLI STEEL PANEL RADIATORS

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



FEATURES



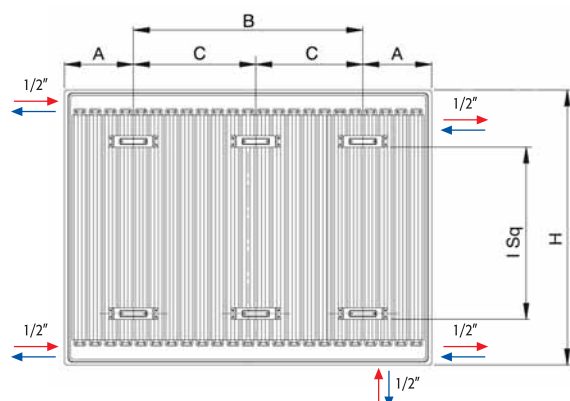
- 5 different types: Type 11, Type 20, Type 21, Type 22, Type 33.
- 6 different heights: 300, 400, 500, 600, 700, 900 mm.
- 21 different lengths between 400 - 3000 mm.
- 4 or 6 connections models total range of 1260 available choices radiators are subjected to surface special treatment to assure a perfect 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



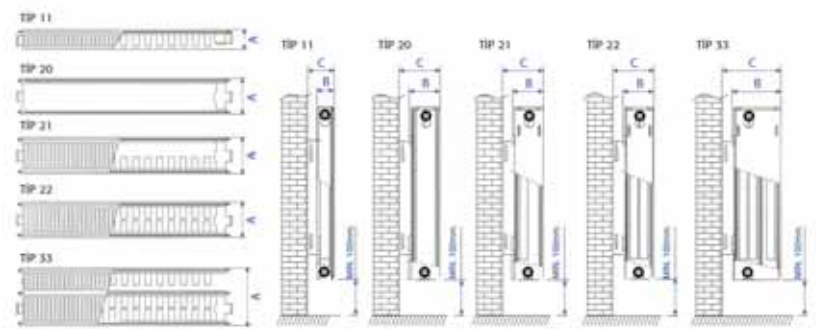
Panel Types
11-20-21-22-33

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

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
		$\Delta T\text{ } 50\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 60\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 50\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 60\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 50\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 60\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 50\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 60\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 50\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 60\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 50\text{ }^{\circ}\text{C}$	$\Delta T\text{ } 60\text{ }^{\circ}\text{C}$
TYPE 11	400	180	229	242	308	302	383	358	454	409	519	499	634
	500	225	286	303	385	378	479	447	567	512	649	624	792
	600	270	343	364	462	453	575	537	681	614	779	749	951
	700	315	401	424	539	529	671	626	794	716	909	874	1109
	800	361	458	485	616	604	767	716	908	819	1039	998	1268
	900	406	515	546	693	680	863	805	1021	921	1168	1123	1426
	1000	451	572	606	769	755	958	895	1135	1023	1298	1248	1584
	1100	496	629	667	846	831	1054	984	1248	1126	1428	1373	1743
	1200	541	687	727	923	906	1150	1074	1362	1228	1558	1498	1901
	1300	586	744	788	1000	982	1246	1163	1475	1330	1688	1622	2060
	1400	631	801	849	1077	1058	1342	1253	1588	1433	1787	1717	2218
	1500	676	858	909	1154	1133	1438	1342	1702	1535	1947	1872	2377
	1600	721	916	970	1231	1209	1533	1432	1815	1637	2077	1997	2535
	1800	811	1030	1091	1385	1360	1725	1610	2042	1842	2337	2246	2852
	2000	901	1145	1212	1539	1511	1917	1789	2269	2047	2596	2496	3169
	2200	991	1259	1334	1693	1662	2108	1968	2496	2251	2856	2746	3486
	2300	1036	1316	1394	1770	1737	2204	2058	2610	2354	2986	2870	3644
TYPE 20	400	180	229	242	308	302	383	358	454	409	519	499	634
	500	225	286	303	385	378	479	447	567	512	649	624	792
	600	270	343	364	462	453	575	537	681	614	779	749	951
	700	315	401	424	539	529	671	626	794	716	909	874	1109
	800	361	458	485	616	604	767	716	908	819	1039	998	1268
	900	406	515	546	693	680	863	805	1021	921	1168	1123	1426
	1000	451	572	606	769	755	958	895	1135	1023	1298	1248	1584
	1100	496	629	667	846	831	1054	984	1248	1126	1428	1373	1743
	1200	541	687	727	923	906	1150	1074	1362	1228	1558	1498	1901
	1300	586	744	788	1000	982	1246	1163	1475	1330	1688	1622	2060
	1400	631	801	849	1077	1058	1342	1253	1588	1433	1787	1717	2218
	1500	676	858	909	1154	1133	1438	1342	1702	1535	1947	1872	2377
	1600	721	916	970	1231	1209	1533	1432	1815	1637	2077	1997	2535
	1800	811	1030	1091	1385	1360	1725	1610	2042	1842	2337	2246	2852
	2000	901	1145	1212	1539	1511	1917	1789	2269	2047	2596	2496	3169
	2200	991	1259	1334	1693	1662	2108	1968	2496	2251	2856	2746	3486
	2300	1036	1316	1394	1770	1737	2204	2058	2610	2354	2986	2870	3644
TYPE 21	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
	600	333	423	423	538	510	647	594	754	676	859	836	1063
	700	389	494	494	627	595	755	693	880	789	1002	976	1240
	800	444	564	564	717	683	863	792	1005	902	1145	1117	1417
	900	500	635	635	806	765	971	891	1131	1015	1288	1255	1594
	1000	555	705	706	896	850	1079	990	1257	1127	1431	1394	1771
	1100	611	776	776	986	935	1187	1090	1382	1240	1574	1533	1948
	1200	667	847	847	1075	1020	1295	1189	1508	1353	1717	1673	2125
	1300	722	917	917	1165	1105	1403	1288	1634	1466	1861	1812	2303
	1400	778	988	988	1254	1190	1511	1387	1760	1578	2004	1952	2480
	1500	835	1058	1059	1344	1275	1619	1486	1885	1691	2147	2091	2657
	1600	889	1129	1129	1434	1360	1727	1585	2011	1804	2290	2230	2834
	1800	1000	1270	1270	1613	1530	1942	1783	2262	2029	2576	2509	3188
	2000	1111	1411	1411	1792	1700	2158	1981	2514	2255	2862	2788	3542
	2200	1222	1552	1552	1971	1870	2374	2179	2765	2480	3149	3067	3897
	2300	1278	1623	1623	2061	1955	2482	2278	2891	2593	3292	3206	4074
TYPE 22	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
	600	333	423	423	538	510	647	594	754	676	859	836	1063
	700	389	494	494	627	595	755	693	880	789	1002	976	1240
	800	444	564	564	717	683	863	792	1005	902	1145	1117	1417
	900	500	635	635	806	765	971	891	1131	1015	1288	1255	1594
	1000	555	705	706	896	850	1079	990	1257	1127	1431	1394	1771
	1100	611	776	776	986	935	1187	1090	1382	1240	1574	1533	1948
	1200	667	847	847	1075	1020	1295	1189	1508	1353	1717	1673	2125
	1300	722	917	917	1165	1105	1403	1288	1634	1466	1861	1812	2303
	1400	778	988	988	1254	1190	1511	1387	1760	1578	2004	1952	2480
	1500	835	1058	1059	1344	1275	1619	1486	1885	1691	2147	2091	2657
	1600	889	1129	1129	1434	1360	1727	1585	2011	1804	2290	2230	2834
	1800	1000	1270	1270	1613	1530	1942	1783	2262	2029	2576	2509	3188
	2000	1111	1411	1411	1792	1700	2158	1981	2514	2255	2862	2788	3542
	2200	1222	1552	1552	1971	1870	2374	2179	2765	2480	3149	3067	3897
	2300	1278	1623	1623	2061	1955	2482	2278	2891	2593	3292	3206	4074
TYPE 33	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
	600	333	423	423	538	510	647	594	754	676	859	836	1063
	700	389	494	494	627	595	755	693	880	789	1002	976	1240
	800	444	564	564	717	683	863	792	1005	902	1145	1117	1417
	900	500	635	635	806	765	971	891	1131	1015	1288	1255	1594
	1000	555	705	706	896	850	1079	990	1257	1127	1431	1394	1771
	1100	611	776	776	986	935	1187	1090	1382	1240	1574	1533	1948
	1200	667	847	847	1075	1020	1295	1189	1508	1353	1717	1673	2125
	1300	722	917	917	1165	1105	1403	1288	1634	1466	1861	1812	2303
	1400	778	988	988	1254	1190	1511	1387	1760	1578	2004	1952	2480
	1500	835	1058	1059	1344	1275	1619	1486	1885	1691	2147	2091	2657
	1600	889	1129	1129	1434	1360	1727	1585	2011	1804	2290	2230	2834
	1800	1000	1270	1270	1613	1530	1942	1783	2262	2029	2576	2509	3188
	2000	1111	1411	1411	1792	1700	2158	1981	2514	2255	2862	2788	3542
	2200	1222	1552	1552	1971	1870	2374	2179	2765	2480	3149	3067	3897
	2300	1278	1623	1623	2061	1955	2482	2278	2891	2593	3292	3206	4074