lazzarini

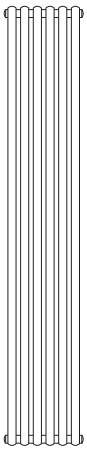
Messina

Technical sheet

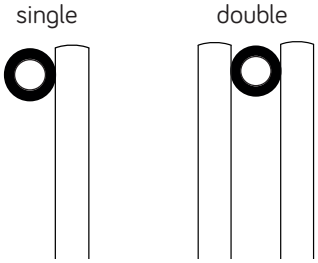
EN EURONORM 442 CE

MESSINA | lazzarini

h: from 650mm to 2000mm

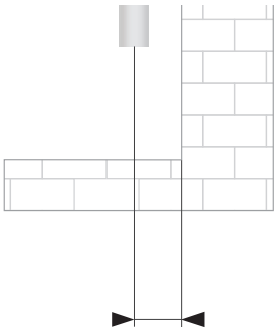


WIDTH: from 235mm to 1071mm
ELEMENTS: from 6 to 28



Description	Single and double
Material	Carbon steel
Pipes - Ø	25x1,2
Collectors - Ø	35x1,5
Connections	4x1/2' (air bleeding valve connection, included)
Wall fixings	4
Max operating pressure	6 bar
Max operating temperature	90 °C
Paint	Epoxypolyester powder
Standard equipment	1 kit wall fixing brackets - 1 air bleeding valve - 1 blind plug

Connection



single

Vert.	Hor.
55	40

double

Vert.	Hor.
55	95

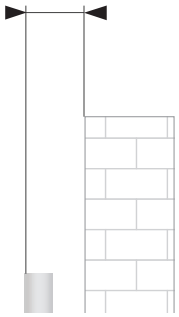
ALSO PERSONALIZED CONNECTION (ONLY FOR VERTICAL INSTALLATION)

ALSO 50 MM CONNECTIONS (ONLY FOR VERTICAL INSTALLATION)

VERTICAL AND HORIZONTAL INSTALLATION*

* In case of horizontal installation, please specify in the order

Wall distance



single

Vert.	Hor.
95	80

double

Vert.	Hor.
95	135

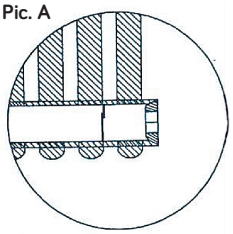
Pipe centres

N1 = Please add the pipe centre distance of the valves to N1. (Lazzarini = + 90 mm)
N3 = 50 mm

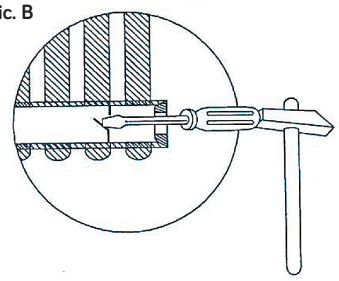
Possible configurations Messina vertical installation (front view)

1. Each radiator has a closed diverter **(Pic. A)** and it is arranged for configuration 1V.
2. For configurations 3V, 4V, 5V and 6V, the diverter has to be opened using a screwdriver and a hammer **(Pic. B)**.
3. Configuration 2V is available only on demand;
4. Drawings are merely representative.

Pic. A

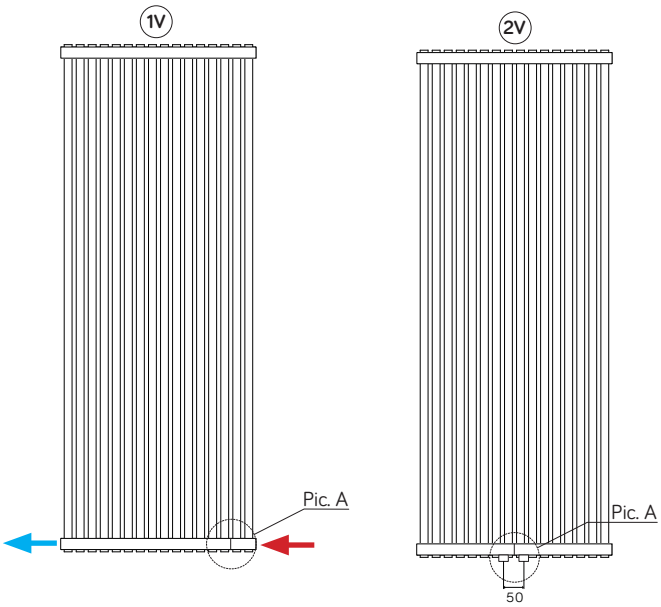


Pic. B

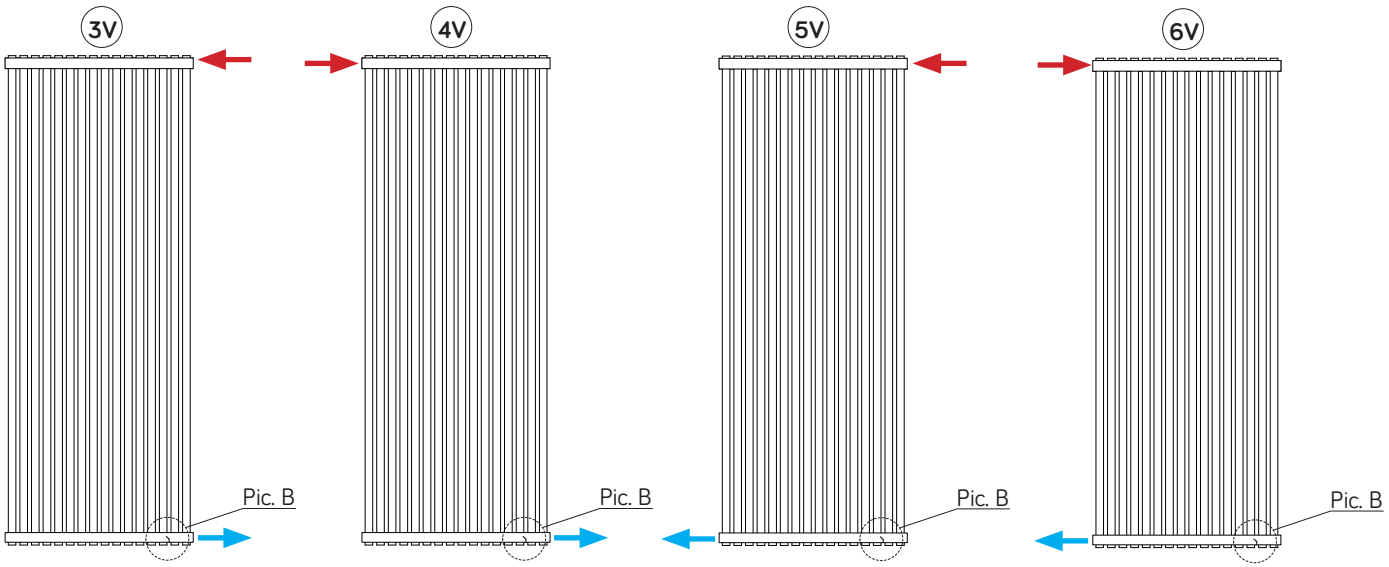


Closed diverter

IN
OUT

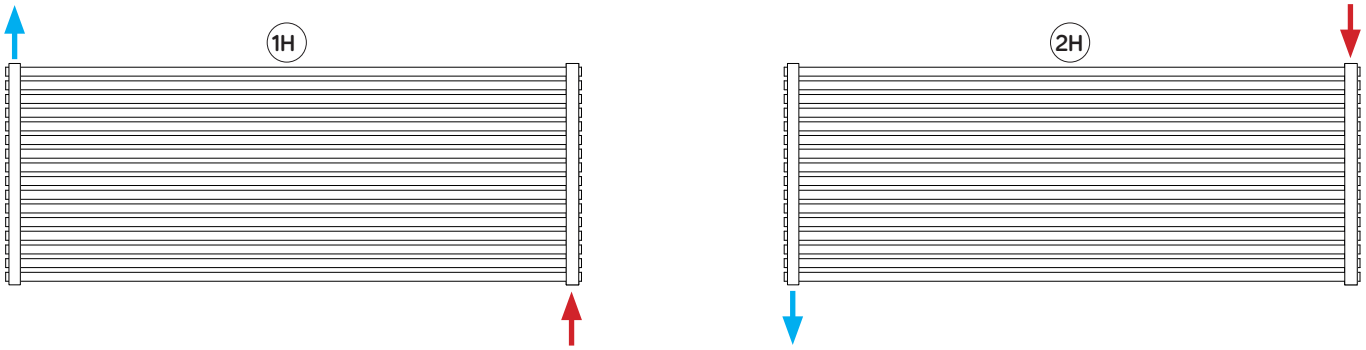


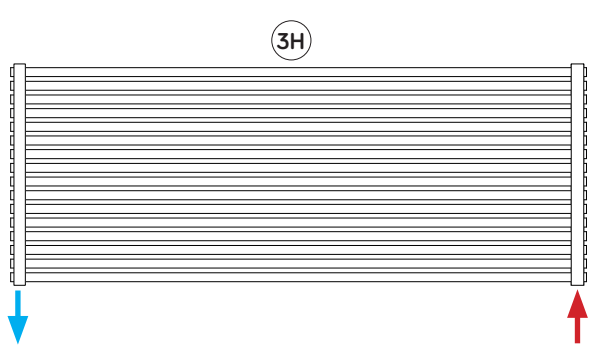
Open diverter

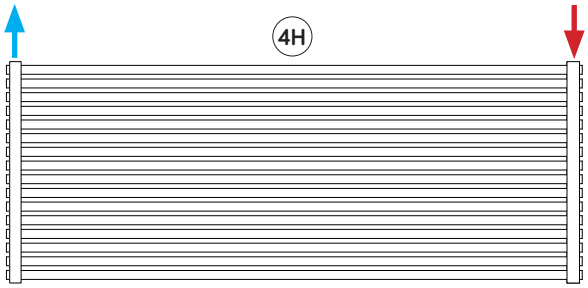


Possible configurations Messina horizontal installation (front view)

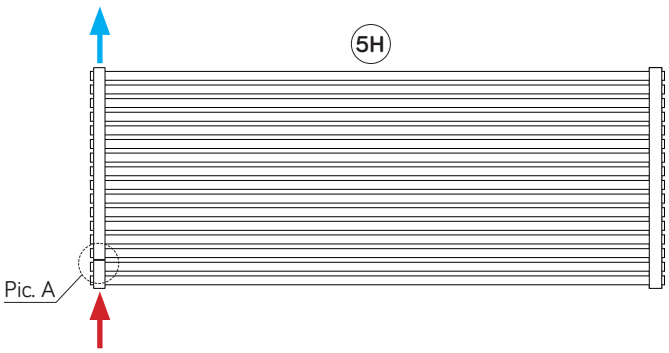
For configurations 1H, 2H, 3H and 4H, there is no need of a diverter inside.

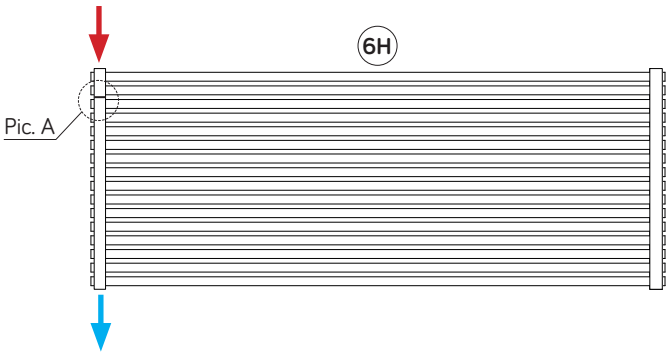






For configurations 5H and 6H a closed diverter is needed **(Pic. A)**.





White RAL 9016 - single

Code	Height mm	Width mm	Pipe centre N1 mm	Pipe centre N2 mm	Elements	Weight kg	Water lt	ΔT50 °C Watt	ΔT30 °C Watt	ΔT42,5 °C Watt	ΔT60 °C Watt	Exponent n
389640	650	235	235	600	6	3,7	1,7	201	105	164	254	1,2797
389641	650	311	311	600	8	5	2,3	268	140	218	339	1,2797
389642	650	387	387	600	10	6,2	2,9	335	175	273	424	1,2797
389643	650	463	463	600	12	7,4	3,5	402	210	327	508	1,2797
389644	650	539	539	600	14	8,7	4,1	469	244	381	593	1,2797
389645	650	615	615	600	16	9,9	4,6	536	279	436	677	1,2797
389646	650	691	691	600	18	11,2	5,2	604	315	491	763	1,2797
389647	650	767	767	600	20	12,4	5,8	671	349	546	848	1,2797
389648	650	843	843	600	22	13,6	6,4	738	384	600	932	1,2797
389649	650	919	919	600	24	14,9	7	805	419	654	1017	1,2797
389650	650	995	995	600	26	16,1	7,5	872	454	709	1102	1,2797
389651	650	1071	1071	600	28	17,4	8,1	939	489	763	1186	1,2797
389652	750	235	235	700	6	4,1	2,0	229	120	187	290	1,2785
389653	750	311	311	700	8	5,5	2,6	306	160	249	387	1,2785
389654	750	387	387	700	10	6,9	3,3	382	199	311	483	1,2785
389655	750	463	463	700	12	8,3	4,0	459	239	373	580	1,2785
389656	750	539	539	700	14	9,7	4,6	535	279	435	676	1,2785
389657	750	615	615	700	16	11,0	5,3	612	319	498	773	1,2785
389658	750	691	691	700	18	12,4	5,9	688	359	559	869	1,2785
389659	750	767	767	700	20	13,8	6,6	764	398	621	965	1,2785
389660	750	843	843	700	22	15,2	7,3	841	438	684	1062	1,2785
389661	750	919	919	700	24	16,6	7,9	917	478	745	1158	1,2785
389662	750	995	995	700	26	17,9	8,6	994	518	808	1255	1,2785
389663	750	1071	1071	700	28	19,3	9,2	1070	557	870	1351	1,2785
389664	850	235	235	800	6	4,6	2,2	257	134	209	325	1,2774
389665	850	311	311	800	8	6,1	3,0	343	179	279	433	1,2774
389666	850	387	387	800	10	7,6	3,7	429	224	349	542	1,2774
389667	850	463	463	800	12	9,1	4,4	514	268	418	649	1,2774
389668	850	539	539	800	14	10,6	5,2	600	313	488	758	1,2774

White RAL 9016 - single

Code	Height mm	Width mm	Pipe centre N1 mm	Pipe centre N2 mm	Elements	Weight kg	Water lt	ΔT50 °C Watt	ΔT30 °C Watt	ΔT42,5 °C Watt	ΔT60 °C Watt	Exponent n
389669	850	615	615	800	16	12,2	5,9	686	358	558	866	1,2774
389670	850	691	691	800	18	13,7	6,7	771	402	627	974	1,2774
389671	850	767	767	800	20	15,2	7,4	857	447	697	1083	1,2774
389672	850	843	843	800	22	16,7	8,1	943	492	767	1191	1,2774
389673	850	919	919	800	24	18,2	8,9	1029	536	836	1299	1,2774
389674	850	995	995	800	26	19,8	9,6	1114	581	906	1407	1,2774
389675	850	1071	1071	800	28	21,3	10,4	1200	625	976	1515	1,2774
386904	1500	235	235	1450	6	7,3	4,0	432	226	352	545	1,2698
386906	1500	311	311	1450	8	9,8	5,3	576	302	469	727	1,2698
386908	1500	387	387	1450	10	12,2	6,6	721	377	587	909	1,2698
386910	1500	463	463	1450	12	14,6	7,9	865	453	704	1091	1,2698
386912	1500	539	539	1450	14	17,1	9,2	1009	528	821	1272	1,2698
386913	1500	615	615	1450	16	19,5	10,6	1153	603	939	1454	1,2698
386914	1500	691	691	1450	18	22,0	11,9	1297	679	1056	1635	1,2698
386915	1500	767	767	1450	20	24,4	13,2	1441	754	1173	1817	1,2698
386916	1500	843	843	1450	22	26,8	14,5	1585	829	1290	1998	1,2698
386917	1500	919	919	1450	24	29,3	15,8	1729	904	1407	2180	1,2698
386918	1500	995	995	1450	26	31,7	17,2	1874	980	1525	2363	1,2698
386919	1500	1071	1071	1450	28	34,2	18,5	2018	1055	1642	2544	1,2698
386920	1800	235	235	1750	6	8,6	4,6	511	268	416	645	1,2693
386922	1800	309	309	1750	8	11,4	6,2	681	357	555	859	1,2693
386923	1800	387	387	1750	10	14,3	7,7	851	445	693	1073	1,2693
386925	1800	465	465	1750	12	17,2	9,2	1022	535	832	1289	1,2693
386927	1800	539	539	1750	14	20,0	10,8	1192	624	970	1503	1,2693
386929	1800	615	615	1750	16	22,9	12,3	1362	713	1109	1717	1,2693
386931	1800	691	691	1750	18	25,7	13,9	1533	802	1248	1933	1,2693
386932	1800	767	767	1750	20	28,6	15,4	1703	891	1386	2147	1,2693
386933	1800	843	843	1750	22	31,5	16,9	1873	980	1524	2361	1,2693
386934	1800	919	919	1750	24	34,3	18,5	2043	1069	1663	2575	1,2693
386935	1800	995	995	1750	26	37,2	20,0	2214	1158	1802	2791	1,2693
386936	1800	1071	1071	1750	28	40,0	21,6	2384	1247	1940	3005	1,2693
386937	2000	235	235	1950	6	9,5	5,1	563	294	458	711	1,2729
386939	2000	311	311	1950	8	12,6	6,8	750	392	610	946	1,2729
386941	2000	387	387	1950	10	15,8	8,5	938	490	763	1184	1,2729
386943	2000	463	463	1950	12	19,0	10,2	1125	588	915	1419	1,2729
386945	2000	539	539	1950	14	22,1	11,9	1313	686	1068	1656	1,2729
386947	2000	615	615	1950	16	25,3	13,6	1500	783	1220	1892	1,2729
386948	2000	691	691	1950	18	28,4	15,3	1688	882	1373	2129	1,2729
386949	2000	767	767	1950	20	31,6	17,0	1875	979	1525	2365	1,2729
386950	2000	843	843	1950	22	34,8	18,7	2063	1077	1678	2602	1,2729
386951	2000	919	919	1950	24	37,9	20,4	2250	1175	1830	2838	1,2729
386952	2000	995	995	1950	26	41,1	22,1	2438	1273	1983	3075	1,2729
386953	2000	1071	1071	1950	28	44,2	23,8	2625	1371	2135	3311	1,2729

White RAL 9016 - double

Code	Height mm	Width mm	Pipe centre N1 mm	Pipe centre N2 mm	Elements	Weight kg	Water lt	ΔT50 °C Watt	ΔT30 °C Watt	ΔT42,5 °C Watt	ΔT60 °C Watt	Exponent n
389715	650	235	235	600	6	6,4	3,3	318	166	259	402	1,2834
389716	650	311	311	600	8	8,6	4,4	424	221	345	536	1,2834

White RAL 9016 - double

Code	Height mm	Width mm	Pipe centre N1 mm	Pipe centre N2 mm	Elements	Weight kg	Water lt	ΔT50 °C Watt	ΔT30 °C Watt	ΔT42,5 °C Watt	ΔT60 °C Watt	Exponent n
389717	650	387	387	600	10	10,7	5,5	530	276	431	670	1,2834
389718	650	463	463	600	12	12,8	6,6	636	331	517	804	1,2834
389719	650	539	539	600	14	15,0	7,7	742	386	603	938	1,2834
389720	650	615	615	600	16	17,1	8,8	848	441	689	1072	1,2834
389721	650	691	691	600	18	19,3	9,9	954	496	775	1206	1,2834
389722	650	767	767	600	20	21,4	11,0	1060	551	861	1340	1,2834
389723	650	843	843	600	22	23,5	12,1	1166	606	947	1474	1,2834
389724	650	919	919	600	24	25,7	13,2	1272	661	1033	1608	1,2834
389725	650	995	995	600	26	27,8	14,3	1378	716	1119	1742	1,2834
389726	650	1071	1071	600	28	30,0	15,4	1484	771	1205	1876	1,2834
389727	750	235	235	700	6	7,3	3,8	359	187	292	454	1,2852
389728	750	311	311	700	8	9,8	5,0	479	249	389	606	1,2852
389729	750	387	387	700	10	12,2	6,3	599	311	487	758	1,2852
389730	750	463	463	700	12	14,6	7,6	719	373	584	909	1,2852
389731	750	539	539	700	14	17,1	8,8	838	435	681	1060	1,2852
389732	750	615	615	700	16	19,5	10,1	958	497	778	1211	1,2852
389733	750	691	691	700	18	22,0	11,3	1078	560	875	1363	1,2852
389734	750	767	767	700	20	24,4	12,6	1198	622	973	1515	1,2852
389735	750	843	843	700	22	26,8	13,9	1318	684	1070	1667	1,2852
389736	750	919	919	700	24	29,3	15,1	1437	746	1167	1817	1,2852
389737	750	995	995	700	26	31,7	16,4	1557	808	1264	1969	1,2852
389738	750	1071	1071	700	28	34,2	17,6	1677	870	1361	2120	1,2852
389739	850	235	235	800	6	8,2	4,3	400	208	325	506	1,2871
389740	850	311	311	800	8	10,9	5,7	533	277	433	674	1,2871
389741	850	387	387	800	10	13,6	7,1	667	346	542	844	1,2871
389742	850	463	463	800	12	16,3	8,5	800	415	650	1012	1,2871
389743	850	539	539	800	14	19,0	9,9	933	484	757	1180	1,2871
389744	850	615	615	800	16	21,8	11,4	1067	553	866	1350	1,2871
389745	850	691	691	800	18	24,5	12,8	1200	622	974	1518	1,2871
389746	850	767	767	800	20	27,2	14,2	1333	691	1082	1686	1,2871
389747	850	843	843	800	22	29,9	15,6	1467	761	1191	1856	1,2871
389748	850	919	919	800	24	32,6	17,0	1600	830	1299	2024	1,2871
389749	850	995	995	800	26	35,4	18,5	1733	898	1406	2192	1,2871
389750	850	1071	1071	800	28	38,1	19,9	1866	967	1514	2360	1,2871
386813	1500	235	235	1450	6	13,7	7,5	653	337	529	828	1,2992
386815	1500	311	311	1450	8	18,3	10,0	871	449	706	1104	1,2992
386816	1500	387	387	1450	10	22,9	12,5	1089	561	882	1381	1,2992
386818	1500	463	463	1450	12	27,5	15,0	1307	674	1059	1657	1,2992
386819	1500	539	539	1450	14	32,1	17,5	1524	785	1234	1932	1,2992
386820	1500	615	615	1450	16	36,6	20,0	1742	898	1411	2208	1,2992
386821	1500	691	691	1450	18	41,2	22,5	1960	1010	1587	2484	1,2992
386822	1500	767	767	1450	20	45,8	25,0	2178	1122	1764	2761	1,2992
386823	1500	843	843	1450	22	50,4	27,5	2396	1234	1940	3037	1,2992
386824	1500	919	919	1450	24	55,0	30,0	2613	1346	2116	3312	1,2992
386825	1500	995	995	1450	26	59,5	32,5	2831	1458	2293	3588	1,2992
386826	1500	1071	1071	1450	28	64,1	35,0	3049	1571	2469	3864	1,2992
386827	1800	235	235	1750	6	16,3	8,9	766	394	620	972	1,3016
386829	1800	309	309	1750	8	21,8	11,9	1022	526	828	1296	1,3016
386831	1800	387	387	1750	10	27,2	14,9	1277	657	1034	1620	1,3016

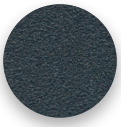
White RAL 9016 - double

Code	Height mm	Width mm	Pipe centre N1 mm	Pipe centre N2 mm	Elements	Weight kg	Water lt	ΔT50 °C Watt	ΔT30 °C Watt	ΔT42,5 °C Watt	ΔT60 °C Watt	Exponent n
386833	1800	465	465	1750	12	32,6	17,9	1533	789	1241	1944	1,3016
386835	1800	539	539	1750	14	38,1	20,9	1788	920	1448	2267	1,3016
386836	1800	615	615	1750	16	43,5	23,8	2044	1052	1655	2592	1,3016
386838	1800	691	691	1750	18	49,0	26,8	2299	1183	1861	2915	1,3016
386839	1800	767	767	1750	20	54,4	29,8	2554	1314	2068	3239	1,3016
386840	1800	843	843	1750	22	59,8	32,8	2810	1446	2275	3563	1,3016
386841	1800	919	919	1750	24	65,3	35,8	3065	1577	2481	3886	1,3016
386842	1800	995	995	1750	26	70,7	38,7	3321	1709	2688	4211	1,3016
386843	1800	1071	1071	1750	28	76,2	41,7	3576	1840	2895	4534	1,3016
386844	2000	235	235	1950	6	18,1	9,9	841	433	681	1067	1,3024
386846	2000	311	311	1950	8	24,1	13,2	1121	577	908	1422	1,3024
386848	2000	387	387	1950	10	30,1	16,5	1401	721	1134	1777	1,3024
386850	2000	463	463	1950	12	36,1	19,8	1682	865	1362	2133	1,3024
386852	2000	539	539	1950	14	42,1	23,1	1962	1009	1588	2488	1,3024
386854	2000	615	615	1950	16	48,2	26,4	2242	1153	1815	2843	1,3024
386856	2000	691	691	1950	18	54,2	29,7	2523	1298	2042	3200	1,3024
386857	2000	767	767	1950	20	60,2	33,0	2803	1442	2269	3555	1,3024
386858	2000	843	843	1950	22	66,2	36,3	3083	1586	2495	3910	1,3024
386859	2000	919	919	1950	24	72,2	39,6	3363	1729	2722	4265	1,3024
386860	2000	995	995	1950	26	78,3	42,9	3644	1874	2949	4621	1,3024
386861	2000	1071	1071	1950	28	84,3	46,2	3924	2018	3176	4976	1,3024

The radiators can be supplied in RAL colours or special VOV Lazzarini colours.
Due to technical limitations, printed colours may slightly differ from the real ones. Concerning RAL refernces we suggest to refer to an official RAL palette and Lazzarini colour chart.

VOV08
Tabak

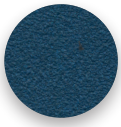
VOV09
Mineral white



VOV12
Anthracite

VOV13
Amethyist

VOV15
Quartz



VOV16
Azurite

Our radiators are tested in qualified laboratories according to EN-442 regulations which determine the ouput value by fixing the ΔT at 50 °C. ΔT is the difference between the average temperature of the water inside the radiator and the room temperature. The formula is: $(((T_1+T_2)/2)-T_3)$.
Ex.: ((75+65/2)-20)= 50 °C. For output values with a different ΔT use the following formula: $\phi_x = \phi_{\Delta T50} * (\Delta T_x/50)^n$.
See calculation example of the output at ΔT 60 °C of article 389640: $201*(60/50)^{1,2797}= 254$.
Output values in kcal/h = watt x 0,85984.
Output values in btu = watt x 3,412.

KEY
T_1 = supply temperature - T_2= return temperature - T_3= room temperature.
ϕ_x = output to be calculated - $\phi_{\Delta T50}$ = output at ΔT 50 °C (table) - ΔT_x = ΔT value to be calculated - ^{n}= exponent "n" (table).

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