



TONALE

GLOBAL 
RADIATORI

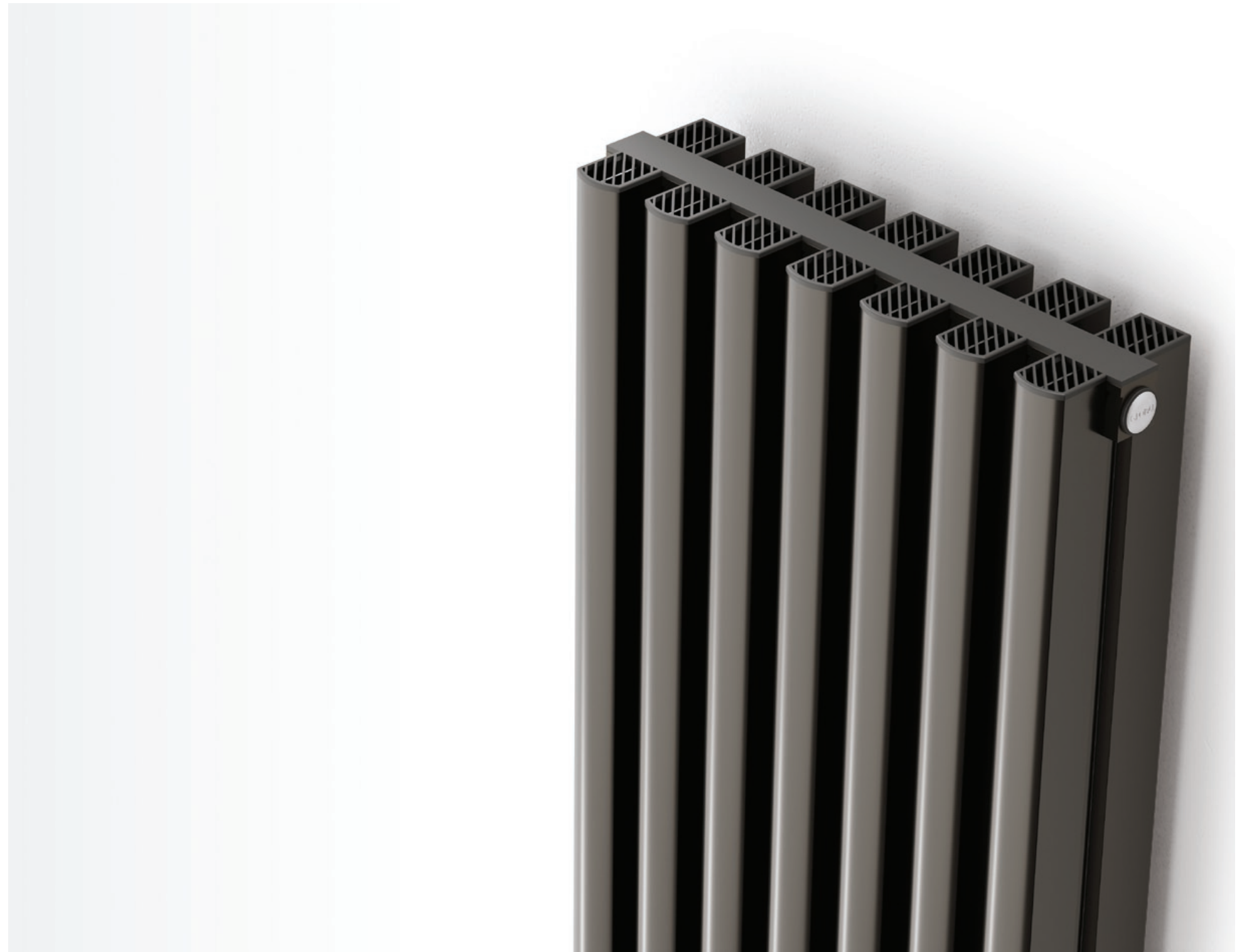
RADIATORS FOR ARCHITECTURE

TONALE

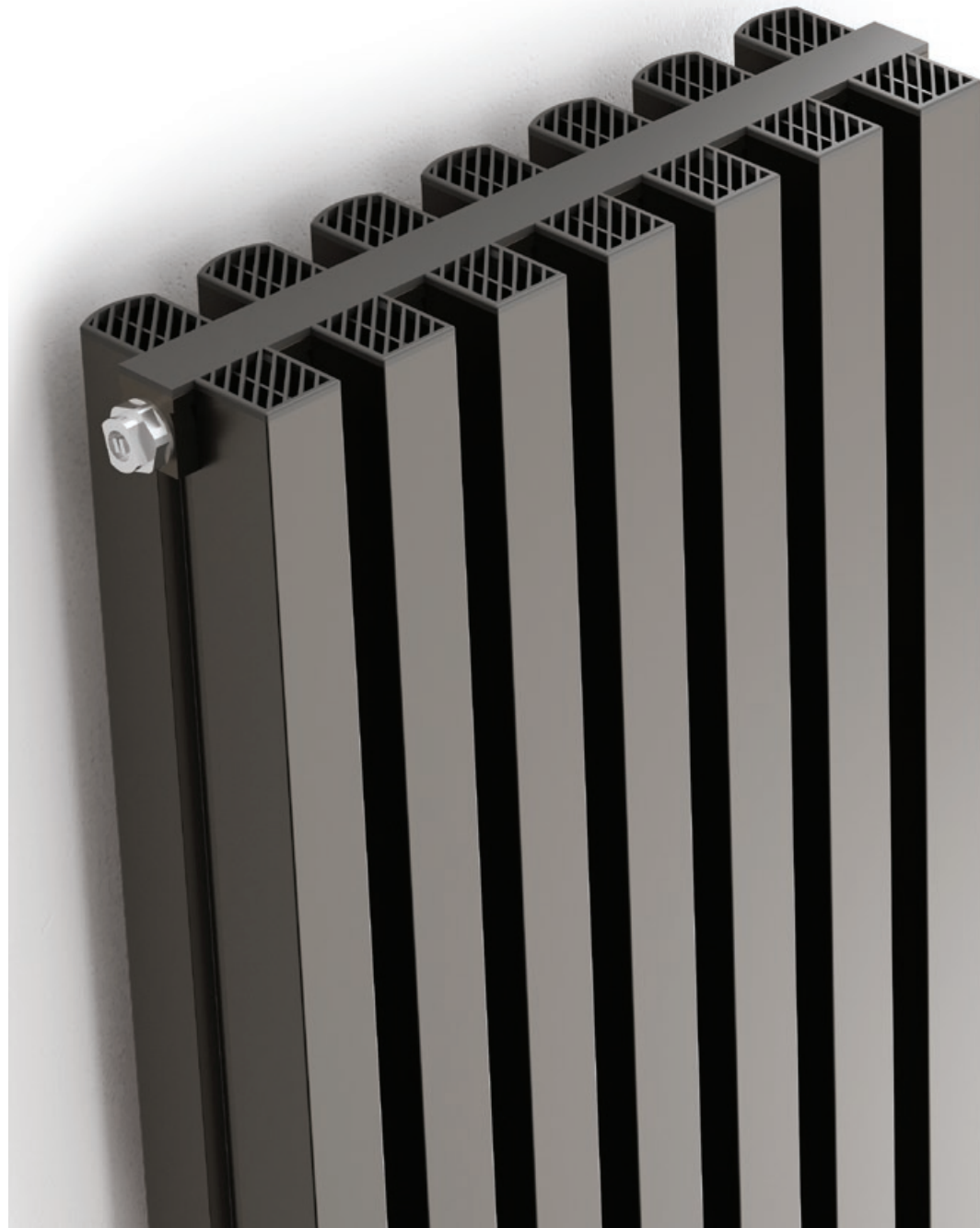
PRAGMATIC OR ROMANTIC?

A new radiator, two personalities that reflect each other in an instant.

The soft shadows glide over the curves of the sections. It becomes a furnishing accessory by synchrony or contrast, in the most refined architecture where, abreast of the times, it highlights the most rigorous side with a simple rotation. As easy as turning the next page!



Tonale 7 sections, 1800 pipe centres, matt black colour, black grids, 1425 Watt



From the harmonic roundness to the sleek square:
this is the side of a pragmatic vocation.
Tonale is the heating solution with no aesthetic
constraints: it abides by the inspiration and freedom
of choice of customers and interior designers.

It is made of certified aluminium, where strict
production controls and double layer anti-oxidant
painting guarantee excellent energy performance
and perfect preservation of both colour and texture.

Tonale 7 sections, 2000 pipe centres, matt black colour, black grids, 1554 Watt

The Global radiators convey our values: to improve the quality of life. They are manufactured based on professional skills and experience, creativity, research, development and advanced technologies that respect the environment.

LOW TEMPERATURES

Global radiators can be installed in combination with standard or condensing boilers, boilers using natural gas, diesel, wood or pellets, operating at both normal and low temperatures or with heat pumps.

HIGH HEAT OUTPUT

Guaranteed by the tests conducted pursuant to the EN 442 Standard by the Politecnico di Milano. The high heat output allows the installation of space-saving radiators and efficient use even in low-temperature installations.

ENERGY SAVING WITH MAXIMUM COMFORT

With the Global radiators the regulation of the temperature is easy and inexpensive. An ideal temperature for every environment according to personal needs is rapidly achieved.

VERY LONG DURATION

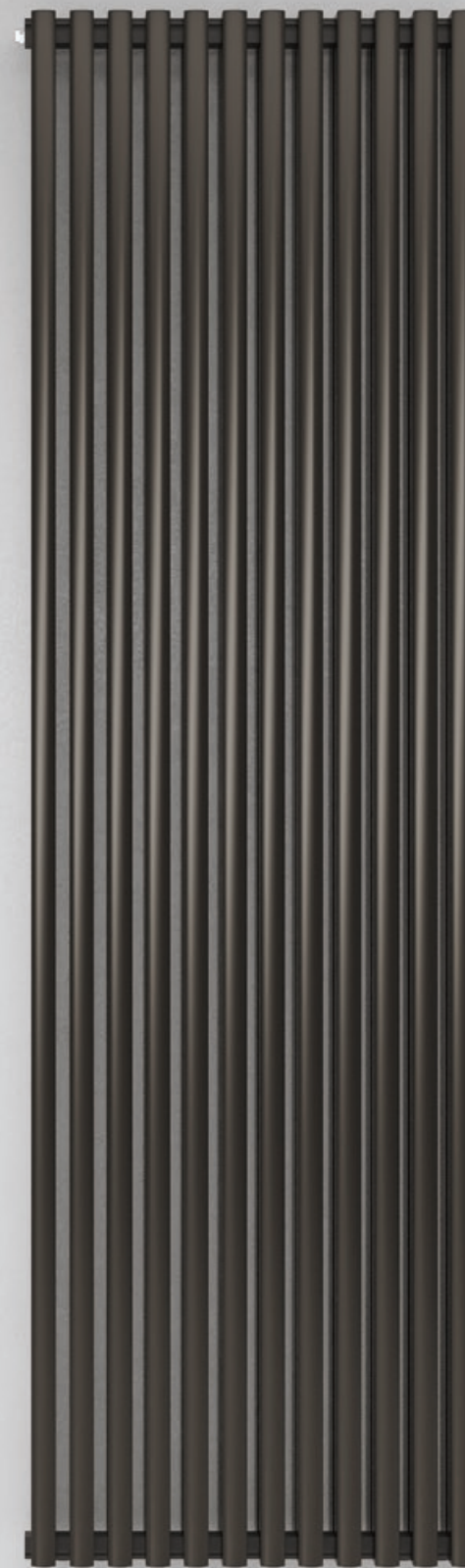
Thanks to the high quality of the material, that gives the maximum guarantee of resistance and duration. The double protection in the "anaphoresis-bath" followed with epoxy power enameling guarantees a perfect and durable finish.

EASIER INSTALLATION

Due to the lightness of the aluminum and the sectional elements that allow greater ease and flexibility of installation.

CERTIFIED QUALITY

ICIM has certified the GLOBAL Quality Management System (ISO 9001 standard) and the Environmental Management System (ISO 14001 standard).



1
RADIATOR

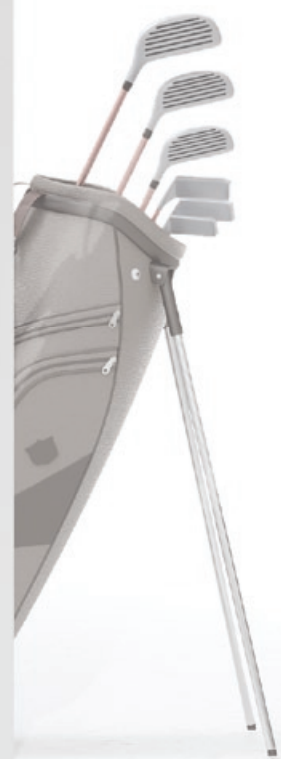
2
REVERSIBLE
sides

17
dimensions in
HEIGHT

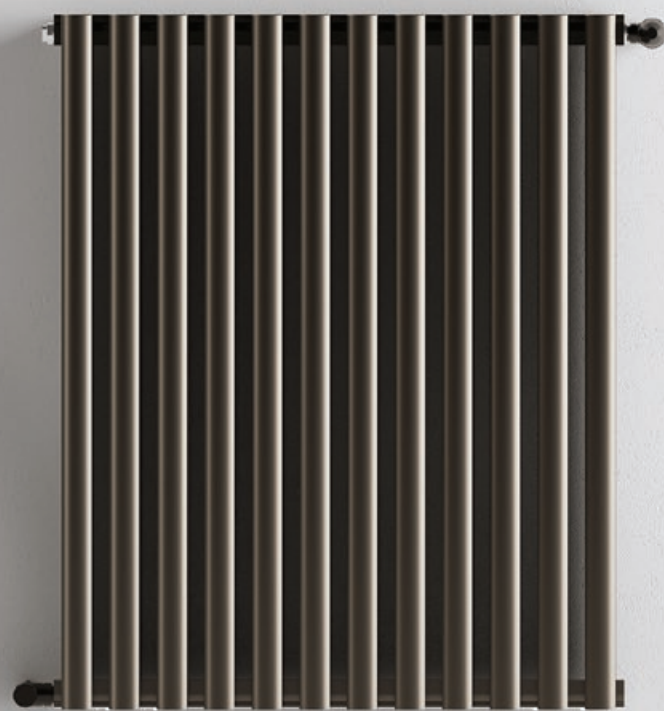
20
dimensions in
LENGTH

11
different
fittings for
HYDRAULIC
CONNECTIONS

10
finish
COLOURS



Tonale 10 sections, 2000 pipe centres, matt white colour, chrome grids, 2280 Watt, with accessories



Tonale 12 sections, 800 pipe centres, matt black colour, chrome grids, 1220 Watt



Tonale 9 sections, 1800 pipe centres, matt black colour, chrome grids, 1832 Watt, with accessories

TONALE	n. of sections	dimensions mm				Ø connec- tions	empty weight Kg ca.	contents water litres	heat output EN 442		exponent n	coefficient Km	
		A overall height	B width	C depht	D pipe centres				ΔT 50°C	ΔT 30°C			
		Watt		Watt									
350	6	384	300	95	350	1/2"	4,62	0,6	296	148	1,36404	1,42782	
	7	384	350	95	350	1/2"	5,39	0,7	346	172	1,36404	1,66579	
	8	384	400	95	350	1/2"	6,16	0,8	395	197	1,36404	1,90376	
	9	384	450	95	350	1/2"	6,93	0,9	445	221	1,36404	2,14173	
	10	384	500	95	350	1/2"	7,70	1,0	494	246	1,36404	2,37970	
	11	384	550	95	350	1/2"	8,47	1,2	543	271	1,36404	2,61767	
	12	384	600	95	350	1/2"	9,24	1,3	593	295	1,36404	2,85564	
	13	384	650	95	350	1/2"	10,01	1,4	642	320	1,36404	3,09361	
	14	384	700	95	350	1/2"	10,78	1,5	692	344	1,36404	3,33158	
	15	384	750	95	350	1/2"	11,55	1,6	741	369	1,36404	3,56955	
	16	384	800	95	350	1/2"	12,32	1,7	790	394	1,36404	3,80752	
	17	384	850	95	350	1/2"	13,09	1,8	840	418	1,36404	4,04549	
	18	384	900	95	350	1/2"	13,86	1,9	889	443	1,36404	4,28346	
	19	384	950	95	350	1/2"	14,63	2,0	939	467	1,36404	4,52143	
	20	384	1000	95	350	1/2"	15,40	2,1	988	492	1,36404	4,75940	
	21	384	1050	95	350	1/2"	16,17	2,2	1037	517	1,36404	4,99737	
	22	384	1100	95	350	1/2"	16,94	2,3	1087	541	1,36404	5,23534	
	23	384	1150	95	350	1/2"	17,71	2,4	1136	566	1,36404	5,47331	
	24	384	1200	95	350	1/2"	18,48	2,5	1186	590	1,36494	5,71128	
	500	6	534	300	95	500	1/2"	6,00	0,8	404	202	1,36055	1,97280
		7	534	350	95	500	1/2"	7,00	0,9	472	235	1,36055	2,30160
		8	534	400	95	500	1/2"	8,00	1,1	539	269	1,36055	2,63040
		9	534	450	95	500	1/2"	9,00	1,2	607	302	1,36055	2,95920
		10	534	500	95	500	1/2"	10,00	1,3	674	336	1,36055	3,28800
11		534	550	95	500	1/2"	11,00	1,5	741	370	1,36055	3,61680	
12		534	600	95	500	1/2"	12,00	1,6	809	403	1,36055	3,94560	
13		534	650	95	500	1/2"	13,00	1,7	876	437	1,36055	4,27440	
14		534	700	95	500	1/2"	14,00	1,9	944	470	1,36055	4,60320	
15		534	750	95	500	1/2"	15,00	2,0	1011	504	1,36055	4,93200	
16		534	800	95	500	1/2"	16,00	2,1	1078	538	1,36055	5,26080	
17		534	850	95	500	1/2"	17,00	2,2	1146	571	1,36055	5,58960	
18		534	900	95	500	1/2"	18,00	2,4	1213	605	1,36055	5,91840	
19		534	950	95	500	1/2"	19,00	2,5	1281	638	1,36055	6,24720	
20		534	1000	95	500	1/2"	20,00	2,6	1348	672	1,36055	6,57600	
21		534	1050	95	500	1/2"	21,00	2,8	1415	706	1,36055	6,90480	
22		534	1100	95	500	1/2"	22,00	2,9	1483	739	1,36055	7,23360	
23		534	1150	95	500	1/2"	23,00	3,0	1550	773	1,36055	7,56240	
24		534	1200	95	500	1/2"	24,00	3,2	1618	806	1,36055	7,89120	
530		6	564	300	95	530	1/2"	6,23	0,8	425	212	1,359850	2,08158
		7	564	350	95	530	1/2"	7,27	1,0	496	248	1,359850	2,42851
		8	564	400	95	530	1/2"	8,31	1,1	567	283	1,359850	2,77544
		9	564	450	95	530	1/2"	9,35	1,2	638	319	1,359850	3,12237
		10	564	500	95	530	1/2"	10,39	1,4	709	354	1,359850	3,46930
	11	564	550	95	530	1/2"	11,43	1,5	780	389	1,359850	3,81623	
	12	564	600	95	530	1/2"	12,47	1,7	851	425	1,359850	4,16316	
	13	564	650	95	530	1/2"	13,51	1,8	922	460	1,359850	4,51009	
	14	564	700	95	530	1/2"	14,55	1,9	993	496	1,359850	4,85702	
	15	564	750	95	530	1/2"	15,59	2,1	1064	531	1,359850	5,20395	
	16	564	800	95	530	1/2"	16,63	2,2	1134	566	1,359850	5,55088	
	17	564	850	95	530	1/2"	17,66	2,3	1205	602	1,359850	5,89781	
	18	564	900	95	530	1/2"	18,70	2,5	1276	637	1,359850	6,24474	
	19	564	950	95	530	1/2"	19,74	2,6	1347	673	1,359850	6,59167	
	20	564	1000	95	530	1/2"	20,78	2,8	1418	708	1,359850	6,93860	
	21	564	1050	95	530	1/2"	21,82	2,9	1489	743	1,359850	7,28553	
	22	564	1100	95	530	1/2"	22,86	3,0	1560	779	1,359850	7,63246	
	23	564	1150	95	530	1/2"	23,90	3,2	1631	814	1,359850	7,97939	
	24	564	1200	95	530	1/2"	24,94	3,3	1702	850	1,359850	8,32632	

TONALE	n. of sections	dimensions mm				Ø connec- tions	empty weight Kg ca.	contents water litres	heat output EN 442		exponent n	coefficient Km	
		A overall height	B width	C depht	D pipe centres				ΔT 50°C	ΔT 30°C			
		Watt		Watt									
600	6	634	300	95	600	1/2"	6,90	0,9	474	237	1,35822	2,33544	
	7	634	350	95	600	1/2"	8,05	1,1	553	277	1,35822	2,72468	
	8	634	400	95	600	1/2"	9,20	1,2	632	316	1,35822	3,11392	
	9	634	450	95	600	1/2"	10,35	1,4	711	356	1,35822	3,50316	
	10	634	500	95	600	1/2"	11,50	1,5	790	395	1,35822	3,89240	
	11	634	550	95	600	1/2"	12,65	1,7	869	435	1,35822	4,28164	
	12	634	600	95	600	1/2"	13,80	1,8	948	474	1,35822	4,67088	
	13	634	650	95	600	1/2"	14,94	2,0	1027	514	1,35822	5,06012	
	14	634	700	95	600	1/2"	16,09	2,1	1106	553	1,35822	5,44936	
	15	634	750	95	600	1/2"	17,24	2,3	1185	593	1,35822	5,83860	
	16	634	800	95	600	1/2"	18,39	2,4	1264	632	1,35822	6,22784	
	17	634	850	95	600	1/2"	19,54	2,6	1343	672	1,35822	6,61708	
	18	634	900	95	600	1/2"	20,69	2,7	1422	711	1,35822	7,00632	
	19	634	950	95	600	1/2"	21,84	2,9	1501	751	1,35822	7,39556	
	20	634	1000	95	600	1/2"	22,99	3,0	1580	790	1,35822	7,78480	
	21	634	1050	95	600	1/2"	24,14	3,2	1659	830	1,35822	8,17404	
	22	634	1100	95	600	1/2"	25,29	3,3	1738	869	1,35822	8,56328	
	23	634	1150	95	600	1/2"	26,44	3,5	1817	909	1,35822	8,95252	
	24	634	1200	95	600	1/2"	27,59	3,6	1896	948	1,35822	9,34176	
	623	6	657	300	95	623	1/2"	7,11	0,9	490	245	1,35769	2,41878
		7	657	350	95	623	1/2"	8,29	1,1	572	286	1,35769	2,82191
		8	657	400	95	623	1/2"	9,48	1,2	654	326	1,35769	3,22504
		9	657	450	95	623	1/2"	10,66	1,4	735	367	1,35769	3,62817
		10	657	500	95	623	1/2"	11,85	1,5	817	408	1,35769	4,03130
11		657	550	95	623	1/2"	13,03	1,7	899	449	1,35769	4,43443	
12		657	600	95	623	1/2"	14,22	1,9	980	490	1,35769	4,83756	
13		657	650	95	623	1/2"	15,40	2,0	1062	530	1,35769	5,24069	
14		657	700	95	623	1/2"	16,58	2,2	1144	571	1,35769	5,64382	
15		657	750	95	623	1/2"	17,77	2,3	1226	612	1,35769	6,04695	
16		657	800	95	623	1/2"	18,95	2,5	1307	653	1,35769	6,45008	
17		657	850	95	623	1/2"	20,14	2,6	1389	694	1,35769	6,85321	
18		657	900	95	623	1/2"	21,32	2,8	1471	734	1,35769	7,25634	
19		657	950	95	623	1/2"	22,51	2,9	1552	775	1,35769	7,65947	
20		657	1000	95	623	1/2"	23,69	3,1	1634	816	1,35769	8,06260	
21		657	1050	95	623	1/2"	24,88	3,2	1716	857	1,35769	8,46573	
22		657	1100	95	623	1/2"	26,06	3,4	1797	898	1,35769	8,86886	
23		657	1150	95	623	1/2"	27,25	3,6	1879	938	1,35769	9,27199	
24		657	1200	95	623	1/2"	28,43	3,7	1961	979	1,35769	9,67512	
700		6	734	300	95	700	1/2"	7,82	1,0	543	272	1,35589	2,69766
		7	734	350	95	700	1/2"	9,13	1,2	634	317	1,35589	3,14727
		8	734	400	95	700	1/2"	10,43	1,4	724	362	1,35589	3,59688
		9	734	450	95	700	1/2"	11,73	1,5	815	408	1,35589	4,04649
		10	734	500	95	700	1/2"	13,04	1,7	905	453	1,35589	4,49610
	11	734	550	95	700	1/2"	14,34	1,9	996	498	1,35589	4,94571	
	12	734	600	95	700	1/2"	15,64	2,0	1086	544	1,35589	5,39532	
	13	734	650	95	700	1/2"	16,95	2,2	1177	589	1,35589	5,84493	
	14	734	700	95	700	1/2"	18,25	2,4	1267	634	1,35589	6,29454	
	15	734	750	95	700	1/2"	19,55	2,5	1358	680	1,35589	6,74415	
	16	734	800	95	700	1/2"	20,86	2,7	1448	725	1,35589	7,19376	
	17	734	850	95	700	1/2"	22,16	2,9	1539	770	1,35589	7,64337	
	18	734	90										

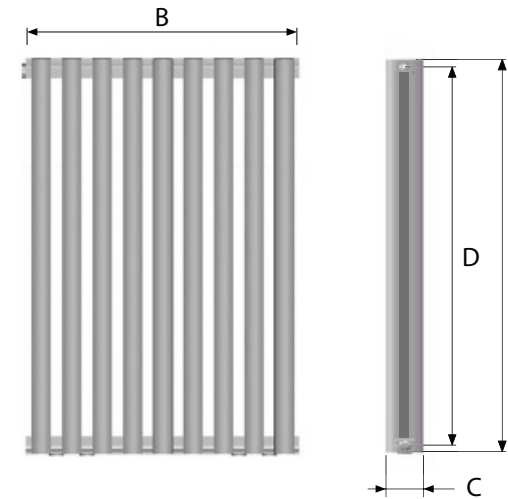
TONALE	n. of sections	dimensions mm				Ø connec- tions	empty weight Kg ca.	contents water litres	heat output EN 442		exponent n	coefficient Km	
		A overall height	B width	C depht	D pipe centres				ΔT 50°C	ΔT 30°C			
		Watt		Watt									
730	6	764	300	95	730	1/2"	8,10	1,0	563	282	1,35520	2,80632	
	7	764	350	95	730	1/2"	9,45	1,2	657	329	1,35520	3,27404	
	8	764	400	95	730	1/2"	10,80	1,4	751	376	1,35520	3,74176	
	9	764	450	95	730	1/2"	12,15	1,6	845	423	1,35520	4,20948	
	10	764	500	95	730	1/2"	13,50	1,7	939	470	1,35520	4,67720	
	11	764	550	95	730	1/2"	14,85	1,9	1033	517	1,35520	5,14492	
	12	764	600	95	730	1/2"	16,20	2,1	1127	564	1,35520	5,61264	
	13	764	650	95	730	1/2"	17,54	2,3	1221	611	1,35520	6,08036	
	14	764	700	95	730	1/2"	18,89	2,4	1315	658	1,35520	6,54808	
	15	764	750	95	730	1/2"	20,24	2,6	1409	705	1,35520	7,01580	
	16	764	800	95	730	1/2"	21,59	2,8	1502	752	1,35520	7,48352	
	17	764	850	95	730	1/2"	22,94	3,0	1596	799	1,35520	7,95124	
	18	764	900	95	730	1/2"	24,29	3,1	1690	846	1,35520	8,41896	
	19	764	950	95	730	1/2"	25,64	3,3	1784	893	1,35520	8,88668	
	20	764	1000	95	730	1/2"	26,99	3,5	1878	940	1,35520	9,35440	
	21	764	1050	95	730	1/2"	28,34	3,7	1972	987	1,35520	9,82212	
	22	764	1100	95	730	1/2"	29,69	3,8	2066	1034	1,35520	10,28984	
	23	764	1150	95	730	1/2"	31,04	4,0	2160	1081	1,35520	10,75756	
	24	764	1200	95	730	1/2"	32,39	4,2	2254	1128	1,35520	11,22528	
	800	6	834	300	95	800	1/2"	8,74	1,1	610	305	1,35357	3,06024
		7	834	350	95	800	1/2"	10,20	1,3	712	356	1,35357	3,57028
		8	834	400	95	800	1/2"	11,65	1,5	814	407	1,35357	4,08032
		9	834	450	95	800	1/2"	13,11	1,7	915	458	1,35357	4,59036
		10	834	500	95	800	1/2"	14,57	1,9	1017	509	1,35357	5,10040
11		834	550	95	800	1/2"	16,02	2,1	1119	560	1,35357	5,61044	
12		834	600	95	800	1/2"	17,48	2,2	1220	611	1,35357	6,12048	
13		834	650	95	800	1/2"	18,94	2,4	1322	662	1,35357	6,63052	
14		834	700	95	800	1/2"	20,39	2,6	1424	713	1,35357	7,14056	
15		834	750	95	800	1/2"	21,85	2,8	1526	764	1,35357	7,65060	
16		834	800	95	800	1/2"	23,31	3,0	1627	814	1,35357	8,16064	
17		834	850	95	800	1/2"	24,76	3,2	1729	865	1,35357	8,67068	
18		834	900	95	800	1/2"	26,22	3,4	1831	916	1,35357	9,18072	
19		834	950	95	800	1/2"	27,68	3,6	1932	967	1,35357	9,69076	
20		834	1000	95	800	1/2"	29,13	3,7	2034	1018	1,35357	10,20080	
21		834	1050	95	800	1/2"	30,59	3,9	2136	1069	1,35357	10,71084	
22		834	1100	95	800	1/2"	32,05	4,1	2237	1120	1,35357	11,22088	
23		834	1150	95	800	1/2"	33,50	4,3	2339	1171	1,35357	11,73092	
24		834	1200	95	800	1/2"	34,96	4,5	2441	1222	1,35357	12,24096	
813		6	847	300	95	813	1/2"	8,86	1,1	619	310	1,35326	3,10734
		7	847	350	95	813	1/2"	10,34	1,3	722	362	1,35326	3,62523
		8	847	400	95	813	1/2"	11,81	1,5	825	414	1,35326	4,14312
		9	847	450	95	813	1/2"	13,29	1,7	928	465	1,35326	4,66101
		10	847	500	95	813	1/2"	14,77	1,9	1031	517	1,35326	5,17890
	11	847	550	95	813	1/2"	16,24	2,1	1134	569	1,35326	5,69679	
	12	847	600	95	813	1/2"	17,72	2,3	1237	620	1,35326	6,21468	
	13	847	650	95	813	1/2"	19,20	2,5	1340	672	1,35326	6,73257	
	14	847	700	95	813	1/2"	20,67	2,7	1443	724	1,35326	7,25046	
	15	847	750	95	813	1/2"	22,15	2,8	1547	776	1,35326	7,76835	
	16	847	800	95	813	1/2"	23,63	3,0	1650	827	1,35326	8,28624	
	17	847	850	95	813	1/2"	25,10	3,2	1753	879	1,35326	8,80413	
	18	847	900	95	813	1/2"	26,58	3,4	1856	931	1,35326	9,32202	
	19	847	950	95	813	1/2"	28,06	3,6	1959	982	1,35326	9,83991	
	20	847	1000	95	813	1/2"	29,53	3,8	2062	1034	1,35326	10,35780	
	21	847	1050	95	813	1/2"	31,01	4,0	2165	1086	1,35326	10,87569	
	22	847	1100	95	813	1/2"	32,49	4,2	2268	1137	1,35326	11,39358	
	23	847	1150	95	813	1/2"	33,96	4,4	2371	1189	1,35326	11,91147	
	24	847	1200	95	813	1/2"	35,44	4,5	2474	1241	1,35326	12,42936	

TONALE	n. of sections	dimensions mm				Ø connec- tions	empty weight Kg ca.	contents water litres	heat output EN 442		exponent n	coefficient Km	
		A overall height	B width	C depht	D pipe centres				ΔT 50°C	ΔT 30°C			
		Watt		Watt									
900	4	934	200	95	900	1/2"	6,44	0,8	451	266	1,35124	2,28196	
	5	934	250	95	900	1/2"	8,05	1,0	564	283	1,35124	2,85245	
	6	934	300	95	900	1/2"	9,66	1,2	676	339	1,35124	3,42294	
	7	934	350	95	900	1/2"	11,27	1,4	789	396	1,35124	3,99343	
	8	934	400	95	900	1/2"	12,88	1,6	902	452	1,35124	4,56392	
	9	934	450	95	900	1/2"	14,50	1,8	1014	509	1,35124	5,13441	
	10	934	500	95	900	1/2"	16,11	2,1	1127	565	1,35124	5,70490	
	11	934	550	95	900	1/2"	17,72	2,3	1240	622	1,35124	6,27539	
	12	934	600	95	900	1/2"	19,33	2,5	1352	678	1,35124	6,84588	
	13	934	650	95	900	1/2"	20,94	2,7	1465	735	1,35124	7,41637	
	14	934	700	95	900	1/2"	22,55	2,9	1578	791	1,35124	7,98686	
	15	934	750	95	900	1/2"	24,16	3,1	1691	848	1,35124	8,55735	
	16	934	800	95	900	1/2"	25,77	3,3	1803	904	1,35124	9,12784	
	17	934	850	95	900	1/2"	27,38	3,5	1916	961	1,35124	9,69833	
	18	934	900	95	900	1/2"	28,99	3,7	2029	1017	1,35124	10,26882	
	19	934	950	95	900	1/2"	30,60	3,9	2141	1074	1,35124	10,83931	
	20	934	1000	95	900	1/2"	32,21	4,1	2254	1130	1,35124	11,40980	
	21	934	1050	95	900	1/2"	33,82	4,3	2367	1187	1,35124	11,98029	
	22	934	1100	95	900	1/2"	35,43	4,5	2479	1243	1,35124	12,55078	
	23	934	1150	95	900	1/2"	37,04	4,7	2592	1300	1,35124	13,12127	
	24	934	1200	95	900	1/2"	38,65	4,9	2705	1356	1,35124	13,69176	
	1000	4	1034	200	95	1000	1/2"	7,06	0,9	494	246	1,36074	2,40976
		5	1034	250	95	1000	1/2"	8,82	1,1	618	308	1,36074	3,01220
		6	1034	300	95	1000	1/2"	10,58	1,3	741	370	1,36074	3,61464
7		1034	350	95	1000	1/2"	12,35	1,6	865	431	1,36074	4,21708	
8		1034	400	95	1000	1/2"	14,11	1,8	988	493	1,36074	4,81952	
9		1034	450	95	1000	1/2"	15,88	2,0	1112	554	1,36074	5,42196	
10		1034	500	95	1000	1/2"	17,64	2,2	1235	616	1,36074	6,02440	
11		1034	550	95	1000	1/2"	19,41	2,5	1359	678	1,36074	6,62684	
12		1034	600	95	1000	1/2"	21,17	2,7	1482	739	1,36074	7,22928	
13		1034	650	95	1000	1/2"	22,93	2,9	1606	801	1,36074	7,83172	
14		1034	700	95	1000	1/2"	24,70	3,1	1729	862	1,36074	8,43416	
15		1034	750	95	1000	1/2"	26,46	3,4	1853	924	1,36074	9,03660	
16		1034	800	95	1000	1/2"	28,23	3,6	1976	986	1,36074	9,63904	
17		1034	850	95	1000	1/2"	29,99	3,8	2100	1047	1,36074	10,24148	
18		1034	900	95	1000	1/2"	31,75	4,0	2223	1109	1,36074	10,84392	
19		1034	950	95	1000	1/2"	33,52	4,2	2347	1170	1,36074	11,44636	
20		1034	1000	95	1000	1/2"	35,28	4,5	2470	1232	1,36074	12,04880	
21		1034	1050	95	1000	1/2"	37,05	4,7	2594	1294	1,36074	12,65124	
22		1034	1100	95	1000	1/2"	38,81	4,9	2717	1355	1,36074	13,25368	
23		1034	1150	95	1000	1/2"	40,57	5,1	2841	1417	1,36074	13,85612	
24		1034	1200	95	1000	1/2"	42,34	5,4	2964	1478	1,36074	14,45856	
1200		4	1234	200	95	1200	1/2"	8,29	1,0	578	286	1,37973	2,61900
		5	1234	250	95	1200	1/2"	10,36	1,3	723	358	1,37973	3,27375
		6	1234	300	95	1200	1/2"	12,43	1,6	868	429	1,37973	3,92850
	7	1234	350	95	1200	1/2"	14,50	1,8	1012	501	1,37973	4,58325	
	8	1234	400	95	1200	1/2"	16,57	2,1	1157	572	1,37973	5,23800	
	9	1234	450	95	1200	1/2"	18,64	2,3	1301	644	1,37973	5,89275	
	10	1234	500	95	1200	1/2"	20,72	2,6	1446	715	1,37973	6,54750	

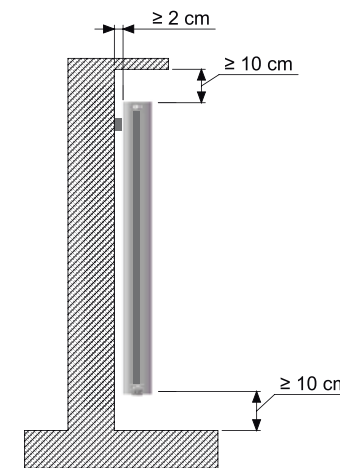
TONALE	n. of sections	dimensions mm				Ø connections	empty weight Kg ca.	contents water litres	heat output EN 442		exponent n	coefficient Km	
		A overall height	B width	C depth	D pipe centres				ΔT 50°C	ΔT 30°C			
		Watt	Watt	Watt	Watt								
1400	4	1434	200	95	1400	1/2"	9,51	1,2	660	323	1,39873	2,77356	
	5	1434	250	95	1400	1/2"	11,89	1,5	825	404	1,39873	3,46695	
	6	1434	300	95	1400	1/2"	14,27	1,8	990	484	1,39873	4,16034	
	7	1434	350	95	1400	1/2"	16,65	2,1	1155	565	1,39873	4,85373	
	8	1434	400	95	1400	1/2"	19,03	2,4	1320	646	1,39873	5,54712	
	9	1434	450	95	1400	1/2"	21,41	2,7	1485	726	1,39873	6,24051	
	10	1434	500	95	1400	1/2"	23,79	3,0	1650	807	1,39873	6,93390	
	11	1434	550	95	1400	1/2"	26,16	3,3	1815	888	1,39873	7,62729	
	12	1434	600	95	1400	1/2"	28,54	3,6	1980	968	1,39873	8,32068	
	13	1434	650	95	1400	1/2"	30,92	3,9	2145	1049	1,39873	9,01407	
	14	1434	700	95	1400	1/2"	33,30	4,2	2310	1130	1,39873	9,70746	
	15	1434	750	95	1400	1/2"	35,68	4,4	2475	1211	1,39873	10,40085	
	16	1434	800	95	1400	1/2"	38,06	4,7	2640	1291	1,39873	11,09424	
	1600	4	1634	200	95	1600	1/2"	10,75	1,3	738	362	1,39434	3,15788
		5	1634	250	95	1600	1/2"	13,43	1,7	923	453	1,39434	3,94735
		6	1634	300	95	1600	1/2"	16,12	2,0	1108	544	1,39434	4,73682
7		1634	350	95	1600	1/2"	18,81	2,3	1292	634	1,39434	5,52629	
8		1634	400	95	1600	1/2"	21,49	2,7	1477	725	1,39434	6,31576	
9		1634	450	95	1600	1/2"	24,18	3,0	1661	815	1,39434	7,10523	
10		1634	500	95	1600	1/2"	26,87	3,3	1846	906	1,39434	7,89470	
11		1634	550	95	1600	1/2"	29,55	3,7	2031	997	1,39434	8,68417	
12		1634	600	95	1600	1/2"	32,24	4,0	2215	1087	1,39434	9,47364	
13		1634	650	95	1600	1/2"	34,93	4,3	2400	1178	1,39434	10,26311	
14		1634	700	95	1600	1/2"	37,61	4,7	2584	1268	1,39434	11,05258	
15		1634	750	95	1600	1/2"	40,30	5,0	2769	1359	1,39434	11,84205	
16		1634	800	95	1600	1/2"	42,99	5,3	2954	1450	1,39434	12,63152	
1735		4	1769	200	95	1735	1/2"	11,57	1,4	790	388	1,39137	3,41804
		5	1769	250	95	1735	1/2"	14,47	1,8	988	485	1,39137	4,27255
		6	1769	300	95	1735	1/2"	17,36	2,1	1185	582	1,39137	5,12706
	7	1769	350	95	1735	1/2"	20,26	2,5	1383	679	1,39137	5,98157	
	8	1769	400	95	1735	1/2"	23,15	2,9	1580	776	1,39137	6,83608	
	9	1769	450	95	1735	1/2"	26,04	3,2	1778	873	1,39137	7,69059	
	10	1769	500	95	1735	1/2"	28,94	3,6	1975	970	1,39137	8,54510	
	11	1769	550	95	1735	1/2"	31,83	3,9	2173	1067	1,39137	9,39961	
	12	1769	600	95	1735	1/2"	34,72	4,3	2370	1164	1,39137	10,25412	
	13	1769	650	95	1735	1/2"	37,62	4,7	2568	1261	1,39137	11,10863	
	14	1769	700	95	1735	1/2"	40,51	5,0	2765	1358	1,39137	11,96314	
	15	1769	750	95	1735	1/2"	43,40	5,4	2963	1455	1,39137	12,81765	
	16	1769	800	95	1735	1/2"	46,30	5,7	3160	1552	1,39137	13,67216	
	1800	4	1834	200	95	1800	1/2"	11,97	1,5	814	400	1,38994	3,54336
		5	1834	250	95	1800	1/2"	14,97	1,8	1018	501	1,38994	4,42920
		6	1834	300	95	1800	1/2"	17,96	2,2	1222	601	1,38994	5,31504
7		1834	350	95	1800	1/2"	20,96	2,6	1425	701	1,38994	6,20088	
8		1834	400	95	1800	1/2"	23,95	3,0	1629	801	1,38994	7,08672	
9		1834	450	95	1800	1/2"	26,94	3,3	1832	901	1,38994	7,97256	
10		1834	500	95	1800	1/2"	29,94	3,7	2036	1001	1,38994	8,85840	
11		1834	550	95	1800	1/2"	32,93	4,1	2240	1101	1,38994	9,74424	
12		1834	600	95	1800	1/2"	35,92	4,4	2443	1201	1,38994	10,63008	
13		1834	650	95	1800	1/2"	38,92	4,8	2647	1301	1,38994	11,51592	
14		1834	700	95	1800	1/2"	41,91	5,2	2850	1401	1,38994	12,40176	
15		1834	750	95	1800	1/2"	44,90	5,5	3054	1502	1,38994	13,28760	
16		1834	800	95	1800	1/2"	47,90	5,9	3258	1602	1,38994	14,17344	

TONALE	n. of sections	dimensions mm				Ø connections	empty weight Kg ca.	contents water litres	heat output EN 442		exponent n	coefficient Km
		A overall height	B width	C depth	D pipe centres				ΔT 50°C	ΔT 30°C		
		Watt	Watt	Watt	Watt							
2000	4	2034	200	95	2000	1/2"	13,20	1,6	888	438	1,37220	3,92960
	5	2034	250	95	2000	1/2"	16,50	2,0	1110	547	1,37220	4,91200
	6	2034	300	95	2000	1/2"	19,80	2,4	1332	656	1,37220	5,89440
	7	2034	350	95	2000	1/2"	23,10	2,8	1554	766	1,37220	6,87680
	8	2034	400	95	2000	1/2"	26,40	3,2	1776	875	1,37220	7,85920
	9	2034	450	95	2000	1/2"	29,71	3,7	1998	985	1,37220	8,84160
	10	2034	500	95	2000	1/2"	33,01	4,1	2220	1094	1,37220	9,82400
	11	2034	550	95	2000	1/2"	36,31	4,5	2442	1203	1,37220	10,80640
	12	2034	600	95	2000	1/2"	39,61	4,9	2664	1313	1,37220	11,78880
	13	2034	650	95	2000	1/2"	42,91	5,3	2886	1422	1,37220	12,77120
	14	2034	700	95	2000	1/2"	46,21	5,7	3108	1532	1,37220	13,75360
	15	2034	750	95	2000	1/2"	49,51	6,1	3330	1641	1,37220	14,73600
	16	2034	800	95	2000	1/2"	52,81	6,5	3552	1750	1,37220	15,71840

The heat output of the Global radiators is seen in the results of the tests carried out in accordance with the EN 442 standard



The highest heat output can be obtained by mounting the radiators observing the following distances:
 ≥ cm 2 from the wall
 ≥ cm 10 from the floor
 ≥ cm 10 from the shelf or window-sills



In order to prevent thermal expansion of the system from causing noise at the heaters, it is recommended to position the plastic brackets (art. A260) in the centre of the space provided.

Thermal performance according to EN 442

The heat output of the Global sections highlighted in the catalogue are certified in accordance with the EN 442 standard, drawn up to respond to the standardisation requirements of heat output in the Member States of the European Community.

The advantages of a low temperature system will generate:

- lower fuel consumption due to the decrease in passive losses of thermal energy from boilers, pipes and heaters;
- improved hygiene of heated environments: this solution limits the convective motion of the air to the least necessary;
- lower thermal gradients in heated rooms with a consequent improvement of environmental comfort.

Heat output with ΔT other than 50°C and 30°C

The variation in heat output (P) is calculated by applying the characteristic equation $P = Km \cdot \Delta T^n$

where P = heat output

Km = characteristic coefficient of each radiator model

n = distinctive coefficient of the heating element

ΔT = the resultant of this equation $t_m - t_a$

where $t_m = \frac{t_e + t_u}{2}$

t_e = entry water temperature

t_u = exit water temperature

t_a = room temperature (standard 20°C)

t_m = mean water temperature

Example Tonale 1800/10 sections, ΔT 40°C

$$P = Km \cdot \Delta T^n \rightarrow P = 8,8584 \cdot 40^{1,38994} = 1493 \text{ Watt}$$

RADIATORS FOR ARCHITECTURE ACCESSORIES



L-SHAPED TOWEL RAILS

- A263** white mm 300 (recommended up to 6 sections)
- A263** special colours mm 300 (recommended up to 6 sections)
- A264** white mm 400 (recommended over 8 sections)
- A264** special colours mm 400 (recommended over 8 sections)



HANDY HOOK GRIP

- A265** white
- A265** special colours

accessories included for Tonale

- n. 2/3 art. A260 brackets
- art. A011 1/2" white or chrome plug (for coloured radiators)
- n. 1 art. A041 1/2" white manual air vent valve or art. A038 chrome (for coloured radiators)

- Grids and hole plugs are supplied in the same colour as the radiator
- Chrome grids and hole plugs are supplied on request; free of charge for coloured radiators, at an extra charge for white radiators according to the price list
- Tonale radiators can also be fitted with a bottom connection (50 mm pipe centres), for underfloor pipes (G-H-i-L-M configurations) at a charge of € 10,00 net each radiator



A260 white bracket
A260 special colours bracket



A262 white grid
A262 chrome or special colours grid



A011 1/2" white blind plug



A011 1/2" chrome blind plug



A041 adjustable manual air vent valve - white



A038 adjustable manual air vent valve - chrome



A052 diverter



A018 Cillit HS 23 Combi liquid



A019 plug wrench



A017 RAL 9010 white marker



A010 RAL 9010 white spray can or special colour spray can

CORRECT INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS

- Tonale radiators can be used in all hot water or vapour heating installations up to 110°C with a working pressure up to 1600 K Pascal -16 bar.
- They can be installed in systems using iron, copper or thermoplastic pipes.
- In order to avoid problems due to deposit and corrosion in the systems it is recommended that the water pH is checked (preferably between 6.5 and 8) and to introduce a suitable inhibitive additive, for instance Cillit-HS 23 Al or similar in the quantity recommended by the manufacturer.
- Automatic or manual air vent valves must be installed on radiators.
- Avoid complete closure of the radiator shut-off valves in order to allow any gas that there might be inside the same to escape through the automatic air vent valve, which is mandatory in any heating system, thus avoiding possible overpressure that could damage the radiators.
- If one or more batteries are to be excluded from the circuit, an automatic air vent must be fitted to each battery.
- To ensure lasting protection of painting, radiators must not be stored in very wet or damp environments before and after installation such as inside showers, saunas, turkish baths, near swimming pools etc.
Paint peeling off on parts of the radiator could cause the formation of aluminium oxide and have the paint completely peeled off.
Do not use porous clay humidifiers.
- For the external cleaning of the radiator, it is necessary to avoid the use of abrasive or chemically corrosive/aggressive products of any nature, as the use of water and neutral detergent is sufficient while performing the operation when the radiators are cold to maintain the original brilliance of the paint over time.
- Do not place weights and/or objects on the radiators. Do not use radiators for any purpose other than heating elements (e.g.: as a support system, as steps, as support for furniture or objects).

HOW TO USE CODES FOR ORDERING

RADIATORS FOR ARCHITECTURE TONALE

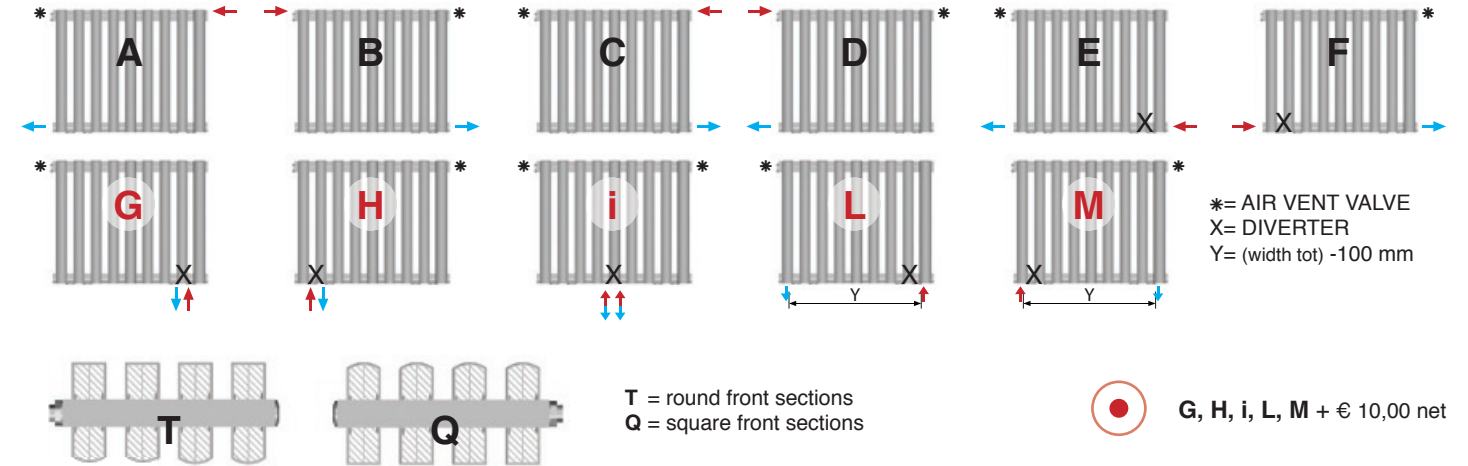
TO radiator model	0350 pipe centres	10 colour code	06 number of sections	A connection	T front sections
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example **TO03501006AT**:

TO Tonale; **0350** pipe centres; **10** white colour; **06** number of sections; **A** connection; **T** round front sections

When ordering radiators in special colours, please specify the Code according to the Colour Card (ref. table at the bottom of page).

The order for the Tonale model **shall always include the specification of the hydraulic connection and the front section configuration**: see diagrams below.



Single-pipe valves cannot be used with Tonale radiator as it is not possible to insert the probe. For single-pipe systems, Tonale radiator **shall be installed with appropriate valves** (examples on the side), with 50 mm pipe centres in G-H-i configurations (diagram above).



cod. 10 white glossy RAL 9010	cod. 11 white sand RAL 9016	cod. 12 white matt	cod. 01 ivory glossy RAL 1013	cod. 05 metallic matt beige	cod. 06 metallic matt quartz	cod. 07 metallic matt dark grey	cod. 08 metallic matt silver grey	cod. 09 metallic matt rust	cod. 14 black matt

standard colour | **special colours** see the Colour Card

The colours are indicative. For technical printing reasons, it is not possible to faithfully reproduce the paints used. The colour of the products supplied may differ from that shown in this catalogue.

GLOBAL provides a 10 year warranty from the production date

The conventional warranty grants the sole right to free replacement of the radiator which, due to defects originating from defects in material or workmanship, is not fit for purpose or its ordinary intended use. Replacement radiators shall be delivered free of charge to the retailer who sold the radiator to the end customer or his installer.

The warranty is valid on the condition that the installation and the system to which the product is connected are performed by qualified/authorised personnel to top workmanship standards and in compliance with the regulations and requirements of the sector in force; it is also valid on the condition that there has been full compliance with warnings and instructions for proper installation, use and maintenance of the product indicated in the technical documentation under the paragraph entitled *correct installation, use and maintenance instructions*, available and downloadable from the *TECHNICAL INFO* section on the globalradiatori.it website. The warranty is regulated by further conditions indicated in the technical catalogue and the CONVENTIONAL WARRANTY section on the globalradiatori.it website.



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AREA

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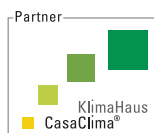
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