

OPAL

TECHNICAL INFORMATION

(For connection types, please refer to the last page)

MODEL CODE	Height x Width	Tube	Depth (D)	Pipe Centers (A)	Wall to Pipe Centers (L)	Depth From Wall (K)	Wall To Radiator Back (M)	Space Between Tubes (E)	Tube Width (F)	Water Volume	Fuel Type
	mm	pieces	mm	mm	mm	mm	mm	mm	mm	L	
5010104603000320	280 x 320	5	80	245	70	110	17	30	40	0,38	C
5010104603000390	280 x 390	6	80	245	70	110	17	30	40	0,46	C
5010104603000460	280 x 460	7	80	245	70	110	17	30	40	0,54	C-E-D
5010104603000530	280 x 530	8	80	245	70	110	17	30	40	0,62	C-E-D
5010104603000600	280 x 600	9	80	245	70	110	17	30	40	0,70	C-E-D
5010104603000670	280 x 670	10	80	245	70	110	17	30	40	0,78	C-E-D
5010104603000740	280 x 740	11	80	245	70	110	17	30	40	0,86	C-E-D
5010104603000810	280 x 810	12	80	245	70	110	17	30	40	0,94	C-E-D
5010104603000880	280 x 880	13	80	245	70	110	17	30	40	1,01	C-E-D
5010104603000950	280 x 950	14	80	245	70	110	17	30	40	1,09	C-E-D
5010104603001020	280 x 1 020	15	80	245	70	110	17	30	40	1,17	C-E-D
5010104603001090	280 x 1 090	16	80	245	70	110	17	30	40	1,25	C-E-D
5010104603001160	280 x 1 160	17	80	245	70	110	17	30	40	1,33	C-E-D
5010104603001230	280 x 1 230	18	80	245	70	110	17	30	40	1,41	C-E-D
5010104603001300	280 x 1 300	19	80	245	70	110	17	30	40	1,49	C-E-D
5010104603001370	280 x 1 370	20	80	245	70	110	17	30	40	1,57	C-E-D
5010104603001440	280 x 1 440	21	80	245	70	110	17	30	40	1,65	C
5010104603001510	280 x 1 510	22	80	245	70	110	17	30	40	1,72	C
5010104603001580	280 x 1 580	23	80	245	70	110	17	30	40	1,80	C
5010104603001650	280 x 1 650	24	80	245	70	110	17	30	40	1,88	C
5010104603001720	280 x 1 720	25	80	245	70	110	17	30	40	1,96	C
5010104603001790	280 x 1 790	26	80	245	70	110	17	30	40	2,04	C
5010104603001860	280 x 1 860	27	80	245	70	110	17	30	40	2,12	C
5010104603001930	280 x 1 930	28	80	245	70	110	17	30	40	2,20	C
5010104604000320	380 x 320	5	80	345	70	110	17	30	40	0,45	C
5010104604000390	380 x 390	6	80	345	70	110	17	30	40	0,55	C
5010104604000460	380 x 460	7	80	345	70	110	17	30	40	0,64	C-E-D
5010104604000530	380 x 530	8	80	345	70	110	17	30	40	0,73	C-E-D
5010104604000600	380 x 600	9	80	345	70	110	17	30	40	0,83	C-E-D
5010104604000670	380 x 670	10	80	345	70	110	17	30	40	0,92	C-E-D
5010104604000740	380 x 740	11	80	345	70	110	17	30	40	1,01	C-E-D
5010104604000810	380 x 810	12	80	345	70	110	17	30	40	1,11	C-E-D
5010104604000880	380 x 880	13	80	345	70	110	17	30	40	1,20	C-E-D
5010104604000950	380 x 950	14	80	345	70	110	17	30	40	1,29	C-E-D
5010104604001020	380 x 1 020	15	80	345	70	110	17	30	40	1,39	C-E-D
5010104604001090	380 x 1 090	16	80	345	70	110	17	30	40	1,48	C-E-D
5010104604001160	380 x 1 160	17	80	345	70	110	17	30	40	1,57	C-E-D
5010104604001230	380 x 1 230	18	80	345	70	110	17	30	40	1,67	C-E-D
5010104604001300	380 x 1 300	19	80	345	70	110	17	30	40	1,76	C-E-D
5010104604001370	380 x 1 370	20	80	345	70	110	17	30	40	1,85	C-E-D
5010104604001440	380 x 1 440	21	80	345	70	110	17	30	40	1,95	C
5010104604001510	380 x 1 510	22	80	345	70	110	17	30	40	2,04	C
5010104604001580	380 x 1 580	23	80	345	70	110	17	30	40	2,13	C
5010104604001650	380 x 1 650	24	80	345	70	110	17	30	40	2,23	C
5010104604001720	380 x 1 720	25	80	345	70	110	17	30	40	2,32	C
5010104604001790	380 x 1 790	26	80	345	70	110	17	30	40	2,41	C
5010104604001860	380 x 1 860	27	80	345	70	110	17	30	40	2,51	C
5010104604001930	380 x 1 930	28	80	345	70	110	17	30	40	2,60	C
5010104605000320	480 x 320	5	80	445	70	110	17	30	40	0,53	C
5010104605000390	480 x 390	6	80	445	70	110	17	30	40	0,63	C
5010104605000460	480 x 460	7	80	445	70	110	17	30	40	0,74	C-E-D
5010104605000530	480 x 530	8	80	445	70	110	17	30	40	0,85	C-E-D
5010104605000600	480 x 600	9	80	445	70	110	17	30	40	0,96	C-E-D
5010104605000670	480 x 670	10	80	445	70	110	17	30	40	1,06	C-E-D
5010104605000740	480 x 740	11	80	445	70	110	17	30	40	1,17	C-E-D
5010104605000810	480 x 810	12	80	445	70	110	17	30	40	1,28	C-E-D
5010104605000880	480 x 880	13	80	445	70	110	17	30	40	1,39	C-E-D
5010104605000950	480 x 950	14	80	445	70	110	17	30	40	1,49	C-E-D
5010104605001020	480 x 1 020	15	80	445	70	110	17	30	40	1,60	C-E-D
5010104605001090	480 x 1 090	16	80	445	70	110	17	30	40	1,71	C-E-D
5010104605001160	480 x 1 160	17	80	445	70	110	17	30	40	1,82	C-E-D
5010104605001230	480 x 1 230	18	80	445	70	110	17	30	40	1,92	C-E-D
5010104605001300	480 x 1 300	19	80	445	70	110	17	30	40	2,03	C-E-D
5010104605001370	480 x 1 370	20	80	445	70	110	17	30	40	2,14	C-E-D
5010104605001440	480 x 1 440	21	80	445	70	110	17	30	40	2,25	C
5010104605001510	480 x 1 510	22	80	445	70	110	17	30	40	2,35	C
5010104605001580	480 x 1 580	23	80	445	70	110	17	30	40	2,46	C
5010104605001650	480 x 1 650	24	80	445	70	110	17	30	40	2,57	C
5010104605001720	480 x 1 720	25	80	445	70	110	17	30	40	2,68	C
5010104605001790	480 x 1 790	26	80	445	70	110	17	30	40	2,78	C
5010104605001860	480 x 1 860	27	80	445	70	110	17	30	40	2,89	C
5010104605001930	480 x 1 930	28	80	445	70	110	17	30	40	3,00	C
5010104606000320	580 x 320	5	80	545	70	110	17	30	40	0,60	C
5010104606000390	580 x 390	6	80	545	70	110	17	30	40	0,72	C
5010104606000460	580 x 460	7	80	545	70	110	17	30	40	0,84	C-E-D
5010104606000530	580 x 530	8	80	545	70	110	17	30	40	0,96	C-E-D
5010104606000600	580 x 600	9	80	545	70	110	17	30	40	1,08	C-E-D
5010104606000670	580 x 670	10	80	545	70	110	17	30	40	1,21	C-E-D
5010104606000740	580 x 740	11	80	545	70	110	17	30	40	1,33	C-E-D
5010104606000810	580 x 810	12	80	545	70	110	17	30	40	1,45	C-E-D
5010104606000880	580 x 880	13	80	545	70	110	17	30	40	1,57	C-E-D

HEAT OUTPUTS INFORMATION

MODEL CODE	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
	Watt	Btu	Watt	Btu
5010104603000320	139	475	181	618
5010104603000390	167	570	217	741
5010104603000460	195	665	254	865
5010104603000530	223	760	290	988
5010104603000600	251	855	326	1112
5010104603000670	279	950	362	1235
5010104603000740	307	1045	398	1359
5010104603000810	334	1140	435	1482
5010104603000880	362	1235	471	1606
5010104603000950	390	1330	507	1729
5010104603001020	418	1425	543	1853
5010104603001090	446	1520	580	1976
5010104603001160	474	1615	616	2100
5010104603001230	502	1710	652	2223
5010104603001300	529	1805	688	2347
5010104603001370	557	1900	724	2470
5010104603001440	585	1995	761	2594
5010104603001510	613	2090	797	2717
5010104603001580	641	2185	833	2841
5010104603001650	669	2280	869	2965
5010104603001720	697	2375	906	3088
5010104603001790	724	2470	942	3212
5010104603001860	752	2565	978	3335
5010104603001930	780	2660	1014	3459
5010104604000320	190	647	247	842
5010104604000390	228	777	296	1010
5010104604000460	266	906	346	1178
5010104604000530	304	1036	395	1347
5010104604000600	342	1165	444	1515
5010104604000670	380	1295	494	1683
5010104604000740	418	1424	543	1852
5010104604000810	456	1554	592	2020
5010104604000880	494	1683	642	2188
5010104604000950	532	1813	691	2357
5010104604001020	570	1942	740	2525
5010104604001090	608	2072	790	2693
5010104604001160	646	2201	839	2862
5010104604001230	684	2331	889	3030
5010104604001300	721	2460	938	3198
5010104604001370	759	2590	987	3367
5010104604001440	797	2719	1037	3535
5010104604001510	835	2849	1086	3703
5010104604001580	873	2978	1135	3872
5010104604001650	911	3108	1185	4040
5010104604001720	949	3237	1234	4208
5010104604001790	987	3367	1283	4377
5010104604001860	1025	3496	1333	4545
5010104604001930	1063	3626	1382	4713
5010104605000320	243	827	315	1075
5010104605000390	291	993	378	1290
5010104605000460	340	1158	441	1505
5010104605000530	388	1323	505	1720
5010104605000600	437	1489	568	1936
5010104605000670	485	1654	631	2151
5010104605000740	534	1820	694	2366
5010104605000810	582	1985	757	2581
5010104605000880	631	2151	820	2796
5010104605000950	679	2316	883	3011
5010104605001020	728	2481	946	3226
5010104605001090	776	2647	1009	3441
5010104605001160	825	2812	1072	3656
5010104605001230	873	2978	1135	3871
5010104605001300	922	3143	1198	4086
5010104605001370	970	3309	1261	4301
5010104605001440	1019	3474	1324	4516
5010104605001510	1067	3639	1387	4731
5010104605001580	1116	3805	1451	4946
5010104605001650	1164	3970	1514	5161
5010104605001720	1213	4136	1577	5376
5010104605001790	1261	4301	1640	5592
5010104605001860	1310	4467	1703	5807
5010104605001930	1358	4632	1766	6022
5010104606000320	298	1015	387	1319
5010104606000390	357	1217	464	1583
5010104606000460	417	1420	541	1846
5010104606000530	476	1623	619	2110
5010104606000600	536	1826	696	2374
5010104606000670	595	2029	774	2638
5010104606000740	655	2232	851	2901
5010104606000810	714	2435	928	3165
5010104606000880	774	2638	1006	3429

OPAL

TECHNICAL INFORMATION

(For connection types, please refer to the last page)

MODEL CODE	Height x Width	Tube	Depth (D)	Pipe Centers (A)	Wall to Pipe Centers (L)	Depth From Wall (K)	Wall To Radiator Back (M)	Space Between Tubes (E)	Tube Width (F)	Water Volume	Fuel Type
	mm	pieces	mm	mm	mm	mm	mm	mm	mm	L	
5010104606000950	580 x 950	14	80	545	70	110	17	30	40	1,69	C-E-D
5010104606001020	580 x 1020	15	80	545	70	110	17	30	40	1,82	C-E-D
5010104606001090	580 x 1090	16	80	545	70	110	17	30	40	1,94	C-E-D
5010104606001160	580 x 1160	17	80	545	70	110	17	30	40	2,06	C-E-D
5010104606001230	580 x 1230	18	80	545	70	110	17	30	40	2,18	C-E-D
5010104606001300	580 x 1300	19	80	545	70	110	17	30	40	2,30	C-E-D
5010104606001370	580 x 1370	20	80	545	70	110	17	30	40	2,42	C-E-D
5010104606001440	580 x 1440	21	80	545	70	110	17	30	40	2,55	C
5010104606001510	580 x 1510	22	80	545	70	110	17	30	40	2,67	C
5010104606001580	580 x 1580	23	80	545	70	110	17	30	40	2,79	C
5010104606001650	580 x 1650	24	80	545	70	110	17	30	40	2,91	C
5010104606001720	580 x 1720	25	80	545	70	110	17	30	40	3,03	C
5010104606001790	580 x 1790	26	80	545	70	110	17	30	40	3,16	C
5010104606001860	580 x 1860	27	80	545	70	110	17	30	40	3,28	C
5010104606001930	580 x 1930	28	80	545	70	110	17	30	40	3,40	C
5010104607000320	680 x 320	5	80	645	70	110	17	30	40	0,67	C
5010104607000390	680 x 390	6	80	645	70	110	17	30	40	0,80	C
5010104607000460	680 x 460	7	80	645	70	110	17	30	40	0,94	C-E-D
5010104607000530	680 x 530	8	80	645	70	110	17	30	40	1,08	C-E-D
5010104607000600	680 x 600	9	80	645	70	110	17	30	40	1,21	C-E-D
5010104607000670	680 x 670	10	80	645	70	110	17	30	40	1,35	C-E-D
5010104607000740	680 x 740	11	80	645	70	110	17	30	40	1,49	C-E-D
5010104607000810	680 x 810	12	80	645	70	110	17	30	40	1,62	C-E-D
5010104607000880	680 x 880	13	80	645	70	110	17	30	40	1,76	C-E-D
5010104607000950	680 x 950	14	80	645	70	110	17	30	40	1,89	C-E-D
5010104607001020	680 x 1020	15	80	645	70	110	17	30	40	2,03	C-E-D
5010104607001090	680 x 1090	16	80	645	70	110	17	30	40	2,17	C-E-D
5010104607001160	680 x 1160	17	80	645	70	110	17	30	40	2,30	C-E-D
5010104607001230	680 x 1230	18	80	645	70	110	17	30	40	2,44	C-E-D
5010104607001300	680 x 1300	19	80	645	70	110	17	30	40	2,57	C-E-D
5010104607001370	680 x 1370	20	80	645	70	110	17	30	40	2,71	C-E-D
5010104607001440	680 x 1440	21	80	645	70	110	17	30	40	2,85	C
5010104607001510	680 x 1510	22	80	645	70	110	17	30	40	2,98	C
5010104607001580	680 x 1580	23	80	645	70	110	17	30	40	3,12	C
5010104607001650	680 x 1650	24	80	645	70	110	17	30	40	3,26	C
5010104607001720	680 x 1720	25	80	645	70	110	17	30	40	3,39	C
5010104607001790	680 x 1790	26	80	645	70	110	17	30	40	3,53	C
5010104607001860	680 x 1860	27	80	645	70	110	17	30	40	3,66	C
5010104607001930	680 x 1930	28	80	645	70	110	17	30	40	3,80	C
5010104608000320	780 x 320	5	80	745	70	110	17	30	40	0,74	C
5010104608000390	780 x 390	6	80	745	70	110	17	30	40	0,89	C
5010104608000460	780 x 460	7	80	745	70	110	17	30	40	1,04	C-E-D
5010104608000530	780 x 530	8	80	745	70	110	17	30	40	1,19	C-E-D
5010104608000600	780 x 600	9	80	745	70	110	17	30	40	1,34	C-E-D
5010104608000670	780 x 670	10	80	745	70	110	17	30	40	1,49	C-E-D
5010104608000740	780 x 740	11	80	745	70	110	17	30	40	1,64	C-E-D
5010104608000810	780 x 810	12	80	745	70	110	17	30	40	1,79	C-E-D
5010104608000880	780 x 880	13	80	745	70	110	17	30	40	1,94	C-E-D
5010104608000950	780 x 950	14	80	745	70	110	17	30	40	2,09	C-E-D
5010104608001020	780 x 1020	15	80	745	70	110	17	30	40	2,24	C-E-D
5010104608001090	780 x 1090	16	80	745	70	110	17	30	40	2,40	C-E-D
5010104608001160	780 x 1160	17	80	745	70	110	17	30	40	2,55	C-E-D
5010104608001230	780 x 1230	18	80	745	70	110	17	30	40	2,70	C-E-D
5010104608001300	780 x 1300	19	80	745	70	110	17	30	40	2,85	C-E-D
5010104608001370	780 x 1370	20	80	745	70	110	17	30	40	3,00	C-E-D
5010104608001440	780 x 1440	21	80	745	70	110	17	30	40	3,15	C
5010104608001510	780 x 1510	22	80	745	70	110	17	30	40	3,30	C
5010104608001580	780 x 1580	23	80	745	70	110	17	30	40	3,45	C
5010104608001650	780 x 1650	24	80	745	70	110	17	30	40	3,60	C
5010104608001720	780 x 1720	25	80	745	70	110	17	30	40	3,75	C
5010104608001790	780 x 1790	26	80	745	70	110	17	30	40	3,90	C
5010104608001860	780 x 1860	27	80	745	70	110	17	30	40	4,05	C
5010104608001930	780 x 1930	28	80	745	70	110	17	30	40	4,20	C
5010104609000320	880 x 320	5	80	845	70	110	17	30	40	0,81	C
5010104609000390	880 x 390	6	80	845	70	110	17	30	40	0,98	C
5010104609000460	880 x 460	7	80	845	70	110	17	30	40	1,14	C-E-D
5010104609000530	880 x 530	8	80	845	70	110	17	30	40	1,31	C-E-D
5010104609000600	880 x 600	9	80	845	70	110	17	30	40	1,47	C-E-D
5010104609000670	880 x 670	10	80	845	70	110	17	30	40	1,64	C-E-D
5010104609000740	880 x 740	11	80	845	70	110	17	30	40	1,80	C-E-D
5010104609000810	880 x 810	12	80	845	70	110	17	30	40	1,96	C-E-D
5010104609000880	880 x 880	13	80	845	70	110	17	30	40	2,13	C-E-D
5010104609000950	880 x 950	14	80	845	70	110	17	30	40	2,29	C-E-D
5010104609001020	880 x 1020	15	80	845	70	110	17	30	40	2,46	C-E-D
5010104609001090	880 x 1090	16	80	845	70	110	17	30	40	2,62	C-E-D
5010104609001160	880 x 1160	17	80	845	70	110	17	30	40	2,79	C-E-D
5010104609001230	880 x 1230	18	80	845	70	110	17	30	40	2,95	C-E-D
5010104609001300	880 x 1300	19	80	845	70	110	17	30	40	3,12	C-E-D
5010104609001370	880 x 1370	20	80	845	70	110	17	30	40	3,28	C-E-D
5010104609001440	880 x 1440	21	80	845	70	110	17	30	40	3,45	C
5010104609001510	880 x 1510	22	80	845	70	110	17	30	40	3,61	C

HEAT OUTPUTS INFORMATION

MODEL CODE	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
	mm	Watt	Btu	Watt
5010104606000950	833	2841	1083	3693
5010104606001020	893	3044	1160	3957
5010104606001090	952	3246	1238	4220
5010104606001160	1012	3449	1315	4484
5010104606001230	1071	3652	1392	4748
5010104606001300	1131	3855	1470	5012
5010104606001370	1190	4058	1547	5275
5010104606001440	1250	4261	1624	5539
5010104606001510	1309	4464	1702	5803
5010104606001580	1369	4667	1779	6067
5010104606001650	1428	4870	1856	6330
5010104606001720	1488	5072	1934	6594
5010104606001790	1547	5275	2011	6858
5010104606001860	1607	5478	2088	7122
5010104606001930	1666	5681	2166	7385
5010104607000320	340	1158	441	1505
5010104607000390	408	1390	530	1807
5010104607000460	475	1621	618	2108
5010104607000530	543	1853	706	2409
5010104607000600	611	2084	795	2710
5010104607000670	679	2316	883	3011
5010104607000740	747	2548	971	3312
5010104607000810	815	2779	1060	3613
5010104607000880	883	3011	1148	3914
5010104607000950	951	3242	1236	4215
5010104607001020	1019	3474	1324	4516
5010104607001090	1087	3706	1413	4817
5010104607001160	1155	3937	1501	5118
5010104607001230	1223	4169	1589	5419
5010104607001300	1290	4400	1678	5721
5010104607001370	1358	4632	1766	6022
5010104607001440	1426	4864	1854	6323
5010104607001510	1494	5095	1942	6624
5010104607001580	1562	5327	2031	6925
5010104607001650	1630	5558	2119	7226
5010104607001720	1698	5790	2207	7527
5010104607001790	1766	6022	2296	7828
5010104607001860	1834	6253	2384	8129
5010104607001930	1902	6485	2472	8430
5010104608000320	380	1295	494	1683
5010104608000390	456	1554	592	2020
5010104608000460	532	1813	691	2357
5010104608000530	608	2072	790	2693
5010104608000600	684	2331	889	3030
5010104608000670	759	2590	987	3367
5010104608000740	835	2849	1086	3703
5010104608000810	911	3108	1185	4040
5010104608000880	987	3367	1283	4377
5010104608000950	1063	3626	1382	4713
5010104608001020	1139	3885	1481	5050
5010104608001090	1215	4144	1580	5387
5010104608001160	1291	4402	1678	5723
5010104608001230	1367	4661	1777	6060
5010104608001300	1443	4920	1876	6397
5010104608001370	1519	5179	1975	6733
5010104608001440	1595	5438	2073	7070
5010104608001510	1671	5697	2172	7407
5010104608001580	1747	5956	2271	7743
5010104608001650	1823	6215	2369	8080
5010104608001720	1899	6474	2468	8417
5010104608001790	1975	6733	2567	8753
5010104608001860	2050	6992	2666	9090
5010104608001930	2126	7251	2764	9427
5010104609000320	418	1425	543	1853
5010104609000390	502	1710	652	2223
5010104609000460	585	1995	761	2594
5010104609000530	669	2280	869	2965
5010104609000600	752	2565	978	3335
5010104609000670	836	2850	1087	3706
5010104609000740	920	3136	1195	4076
5010104609000810	1003	3421	1304	4447
5010104609000880	1087	3706	1413	4817
5010104609000950	1170	3991	1521	5188
5010104609001020	1254	4276	1630	5558
5010104609001090	1337	4561	1739	5929
5010104609001160	1421	4846	1847	6300
5010104609001230	1505	5131	1956	6670
5010104609001300	1588	5416	2065	7041
5010104609001370	1672	5701	2173	7411
5010104609001440	1755	5986	2282	7782
5010104609001510	1839	6271	2391	8152

OPAL

TECHNICAL INFORMATION

(For connection types, please refer to the last page)

MODEL CODE	Height x Width	Tube	Depth (D)	Pipe Centers (A)	Wall to Pipe Centers (L)	Depth From Wall (K)	Wall To Radiator Back (M)	Space Between Tubes (E)	Tube Width (F)	Water Volume	Fuel Type
	mm	pieces	mm	mm	mm	mm	mm	mm	mm	L	
5010104609001580	880 x 1580	23	80	845	70	110	17	30	40	3,78	C
5010104609001650	880 x 1650	24	80	845	70	110	17	30	40	3,94	C
5010104609001720	880 x 1720	25	80	845	70	110	17	30	40	4,11	C
5010104609001790	880 x 1790	26	80	845	70	110	17	30	40	4,27	C
5010104609001860	880 x 1860	27	80	845	70	110	17	30	40	4,44	C
5010104609001930	880 x 1930	28	80	845	70	110	17	30	40	4,60	C
5010104610000320	980 x 320	5	80	945	70	110	17	30	40	0,88	C
5010104610000390	980 x 390	6	80	945	70	110	17	30	40	1,06	C
5010104610000460	980 x 460	7	80	945	70	110	17	30	40	1,24	C-E-D
5010104610000530	980 x 530	8	80	945	70	110	17	30	40	1,42	C-E-D
5010104610000600	980 x 600	9	80	945	70	110	17	30	40	1,60	C-E-D
5010104610000670	980 x 670	10	80	945	70	110	17	30	40	1,78	C-E-D
5010104610000740	980 x 740	11	80	945	70	110	17	30	40	1,96	C-E-D
5010104610000810	980 x 810	12	80	945	70	110	17	30	40	2,14	C-E-D
5010104610000880	980 x 880	13	80	945	70	110	17	30	40	2,32	C-E-D
5010104610000950	980 x 950	14	80	945	70	110	17	30	40	2,49	C-E-D
5010104610001020	980 x 1020	15	80	945	70	110	17	30	40	2,67	C-E-D
5010104610001090	980 x 1090	16	80	945	70	110	17	30	40	2,85	C-E-D
5010104610001160	980 x 1160	17	80	945	70	110	17	30	40	3,03	C-E-D
5010104610001230	980 x 1230	18	80	945	70	110	17	30	40	3,21	C-E-D
5010104610001300	980 x 1300	19	80	945	70	110	17	30	40	3,39	C-E-D
5010104610001370	980 x 1370	20	80	945	70	110	17	30	40	3,57	C-E-D
5010104610001440	980 x 1440	21	80	945	70	110	17	30	40	3,75	C
5010104610001510	980 x 1510	22	80	945	70	110	17	30	40	3,93	C
5010104610001580	980 x 1580	23	80	945	70	110	17	30	40	4,11	C
5010104610001650	980 x 1650	24	80	945	70	110	17	30	40	4,29	C
5010104610001720	980 x 1720	25	80	945	70	110	17	30	40	4,46	C
5010104610001790	980 x 1790	26	80	945	70	110	17	30	40	4,64	C
5010104610001860	980 x 1860	27	80	945	70	110	17	30	40	4,82	C
5010104610001930	980 x 1930	28	80	945	70	110	17	30	40	5,00	C
5010104612000320	1180 x 320	5	80	1145	70	110	17	30	40	1,03	C
5010104612000390	1180 x 390	6	80	1145	70	110	17	30	40	1,23	C
5010104612000460	1180 x 460	7	80	1145	70	110	17	30	40	1,44	C-E-D
5010104612000530	1180 x 530	8	80	1145	70	110	17	30	40	1,65	C-E-D
5010104612000600	1180 x 600	9	80	1145	70	110	17	30	40	1,86	C-E-D
5010104612000670	1180 x 670	10	80	1145	70	110	17	30	40	2,06	C-E-D
5010104612000740	1180 x 740	11	80	1145	70	110	17	30	40	2,27	C-E-D
5010104612000810	1180 x 810	12	80	1145	70	110	17	30	40	2,48	C-E-D
5010104612000880	1180 x 880	13	80	1145	70	110	17	30	40	2,69	C-E-D
5010104612000950	1180 x 950	14	80	1145	70	110	17	30	40	2,90	C-E-D
5010104612001020	1180 x 1020	15	80	1145	70	110	17	30	40	3,10	C-E-D
5010104612001090	1180 x 1090	16	80	1145	70	110	17	30	40	3,31	C-E-D
5010104612001160	1180 x 1160	17	80	1145	70	110	17	30	40	3,52	C-E-D
5010104612001230	1180 x 1230	18	80	1145	70	110	17	30	40	3,73	C-E-D
5010104612001300	1180 x 1300	19	80	1145	70	110	17	30	40	3,93	C-E-D
5010104612001370	1180 x 1370	20	80	1145	70	110	17	30	40	4,14	C-E-D
5010104614000320	1380 x 320	5	80	1345	70	110	17	30	40	1,17	C
5010104614000390	1380 x 390	6	80	1345	70	110	17	30	40	1,41	C
5010104614000460	1380 x 460	7	80	1345	70	110	17	30	40	1,64	C-E-D
5010104614000530	1380 x 530	8	80	1345	70	110	17	30	40	1,88	C-E-D
5010104614000600	1380 x 600	9	80	1345	70	110	17	30	40	2,11	C-E-D
5010104614000670	1380 x 670	10	80	1345	70	110	17	30	40	2,35	C-E-D
5010104614000740	1380 x 740	11	80	1345	70	110	17	30	40	2,59	C-E-D
5010104614000810	1380 x 810	12	80	1345	70	110	17	30	40	2,82	C-E-D
5010104614000880	1380 x 880	13	80	1345	70	110	17	30	40	3,06	C-E-D
5010104614000950	1380 x 950	14	80	1345	70	110	17	30	40	3,30	C-E-D
5010104614001020	1380 x 1020	15	80	1345	70	110	17	30	40	3,53	C-E-D
5010104614001090	1380 x 1090	16	80	1345	70	110	17	30	40	3,77	C-E-D
5010104614001160	1380 x 1160	17	80	1345	70	110	17	30	40	4,00	C-E-D
5010104614001230	1380 x 1230	18	80	1345	70	110	17	30	40	4,24	C-E-D
5010104614001300	1380 x 1300	19	80	1345	70	110	17	30	40	4,48	C-E-D
5010104616000320	1580 x 320	5	80	1545	70	110	17	30	40	1,31	C
5010104616000390	1580 x 390	6	80	1545	70	110	17	30	40	1,58	C
5010104616000460	1580 x 460	7	80	1545	70	110	17	30	40	1,84	C-E-D
5010104616000530	1580 x 530	8	80	1545	70	110	17	30	40	2,11	C-E-D
5010104616000600	1580 x 600	9	80	1545	70	110	17	30	40	2,37	C-E-D
5010104616000670	1580 x 670	10	80	1545	70	110	17	30	40	2,64	C-E-D
5010104616000740	1580 x 740	11	80	1545	70	110	17	30	40	2,90	C-E-D
5010104616000810	1580 x 810	12	80	1545	70	110	17	30	40	3,17	C-E-D
5010104616000880	1580 x 880	13	80	1545	70	110	17	30	40	3,43	C-E-D
5010104616000950	1580 x 950	14	80	1545	70	110	17	30	40	3,70	C-E-D
5010104616001020	1580 x 1020	15	80	1545	70	110	17	30	40	3,96	C-E-D
5010104618000320	1780 x 320	5	80	1745	70	110	17	30	40	1,46	C
5010104618000390	1780 x 390	6	80	1745	70	110	17	30	40	1,75	C
5010104618000460	1780 x 460	7	80	1745	70	110	17	30	40	2,04	C-E-D
5010104618000530	1780 x 530	8	80	1745	70	110	17	30	40	2,34	C-E-D
5010104618000600	1780 x 600	9	80	1745	70	110	17	30	40	2,63	C-E-D
5010104618000670	1780 x 670	10	80	1745	70	110	17	30	40	2,92	C-E-D
5010104618000740	1780 x 740	11	80	1745	70	110	17	30	40	3,22	C-E-D
5010104618000810	1780 x 810	12	80	1745	70	110	17	30	40	3,51	C-E-D
5010104618000880	1780 x 880	13	80	1745	70	110	17	30	40	3,80	C-E-D

HEAT OUTPUTS INFORMATION

MODEL CODE	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
	Watt	Btu	Watt	Btu
5010104609001580	1923	6556	2499	8523
5010104609001650	2006	6841	2608	8893
5010104609001720	2090	7126	2717	9264
5010104609001790	2173	7411	2825	9635
5010104609001860	2257	7696	2934	10005
5010104609001930	2341	7981	3043	10376
5010104610000320	454	1549	591	2014
5010104610000390	545	1859	709	2417
5010104610000460	636	2169	827	2820
5010104610000530	727	2479	945	3223
5010104610000600	818	2789	1063	3626
5010104610000670	909	3099	1181	4028
5010104610000740	1000	3409	1299	4431
5010104610000810	1090	3719	1418	4834
5010104610000880	1181	4028	1536	5237
5010104610000950	1272	4338	1654	5640
5010104610001020	1363	4648	1772	6043
5010104610001090	1454	4958	1890	6445
5010104610001160	1545	5268	2008	6848
5010104610001230	1636	5578	2126	7251
5010104610001300	1727	5888	2245	7654
5010104610001370	1817	6198	2363	8057
5010104610001440	1908	6507	2481	8460
5010104610001510	1999	6817	2599	8863
5010104610001580	2090	7127	2717	9265
5010104610001650	2181	7437	2835	9668
5010104610001720	2272	7747	2953	10071
5010104610001790	2363	8057	3072	10474
5010104610001860	2454	8367	3190	10877
5010104610001930	2544	8677	3308	11280
5010104612000320	522	1779	678	2313
5010104612000390	626	2135	814	2775
5010104612000460	730	2491	949	3238
5010104612000530	835	2846	1085	3700
5010104612000600	939	3202	1221	4163
5010104612000670	1043	3558	1356	4625
5010104612000740	1148	3914	1492	5088
5010104612000810	1252	4270	1628	5550
5010104612000880	1356	4625	1763	6013
5010104612000950	1461	4981	1899	6475
5010104612001020	1565	5337	2035	6938
5010104612001090	1669	5693	2170	7400
5010104612001160	1774	6048	2306	7863
5010104612001230	1878	6404	2442	8326
5010104612001300	1982	6760	2577	

OPAL

TECHNICAL INFORMATION (For connection types, please refer to the last page)

MODEL CODE	Height x Width	Tube	Depth (D)	Pipe Centers (A)	Wall to Pipe Centers (L)	Depth From Wall (K)	Wall To Radiator Back (M)	Space Between Tubes (E)	Tube Width (F)	Water Volume	Fuel Type
	mm	pieces	mm	mm	mm	mm	mm	mm	mm	L	
5010104618000950	1780 x 950	14	80	1745	70	110	17	30	40	4,10	C-E-D
5010104618001020	1780 x 1020	15	80	1745	70	110	17	30	40	4,39	C-E-D
5010104620000320	1980 x 320	5	80	1945	70	110	17	30	40	1,60	C
5010104620000390	1980 x 390	6	80	1945	70	110	17	30	40	1,92	C
5010104620000460	1980 x 460	7	80	1945	70	110	17	30	40	2,24	C-E-D
5010104620000530	1980 x 530	8	80	1945	70	110	17	30	40	2,56	C-E-D
5010104620000600	1980 x 600	9	80	1945	70	110	17	30	40	2,89	C-E-D
5010104620000670	1980 x 670	10	80	1945	70	110	17	30	40	3,21	C-E-D
5010104620000740	1980 x 740	11	80	1945	70	110	17	30	40	3,53	C-E-D
5010104620000810	1980 x 810	12	80	1945	70	110	17	30	40	3,85	C-E-D
5010104620000880	1980 x 880	13	80	1945	70	110	17	30	40	4,17	C-E-D
5010104620000950	1980 x 950	14	80	1945	70	110	17	30	40	4,50	C-E-D
5010104620001020	1980 x 1020	15	80	1945	70	110	17	30	40	4,82	C-E-D

CONNECTIONS TYPE

SX	ZX	YP	YL	AX	P3
✓	x	x	x	✓	✓

SX, ZX, YP and YL connection types can be manufactured optionally based on customer request. Other connection types are provided as part of the standard product.

HEAT OUTPUTS INFORMATION

MODEL CODE	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
	Watt	Btu	Watt	Btu
5010104618000950	2211	7539	2874	9801
5010104618001020	2369	8078	3080	10501
5010104620000320	907	3092	1179	4019
5010104620000390	1088	3710	1414	4823
5010104620000460	1269	4328	1650	5627
5010104620000530	1451	4946	1886	6430
5010104620000600	1632	5565	2121	7234
5010104620000670	1813	6183	2357	8038
5010104620000740	1995	6801	2593	8842
5010104620000810	2176	7420	2829	9646
5010104620000880	2357	8038	3064	10449
5010104620000950	2539	8656	3300	11253
5010104620001020	2720	9275	3536	12057

LOGISTICS INFORMATION

Net Weight	Gross Weight	Package Volume	Package Dimensions (H x W x D)
kg	kg	m³	mm
38,82	43,94	0,24	1910X997X122
41,59	46,98	0,25	1910X1067X122
15,25	18,36	0,10	2110X367X122
18,33	21,74	0,12	2110X437X122
21,39	25,08	0,14	2110X507X122
24,45	28,44	0,15	2110X577X122
27,52	31,79	0,17	2110X647X122
30,58	35,14	0,19	2110X717X122
33,65	38,50	0,21	2110X787X122
36,72	41,87	0,23	2110X857X122
39,78	45,22	0,24	2110X927X122
42,85	48,57	0,26	2110X997X122
45,91	51,92	0,28	2110X1067X122

C: Central Heating / E: Electric / D: Dual Fuel