

OPAL

TECHNICAL INFORMATION

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

Height x Width (H x W)	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	Prices Ex. Vat
mm	pieces	mm	mm	mm	mm	mm	mm	mm	L		
300x320	5	80	245	70	110	17	30	40	0.38	C	£ 82.12
300x390	6	80	245	70	110	17	30	40	0.46	C	£ 96.89
300x460	7	80	245	70	110	17	30	40	0.54	C-E-D	£ 111.84
300x530	8	80	245	70	110	17	30	40	0.62	C-E-D	£ 127.66
300x600	9	80	245	70	110	17	30	40	0.70	C-E-D	£ 142.65
300x670	10	80	245	70	110	17	30	40	0.78	C-E-D	£ 157.64
300x740	11	80	245	70	110	17	30	40	0.86	C-E-D	£ 173.48
300x810	12	80	245	70	110	17	30	40	0.94	C-E-D	£ 188.47
300x880	13	80	245	70	110	17	30	40	1.01	C-E-D	£ 203.45
300x950	14	80	245	70	110	17	30	40	1.09	C-E-D	£ 218.44
300x1020	15	80	245	70	110	17	30	40	1.17	C-E-D	£ 234.27
300x1090	16	80	245	70	110	17	30	40	1.25	C-E-D	£ 249.27
300x1160	17	80	245	70	110	17	30	40	1.33	C-E-D	£ 264.26
300x1230	18	80	245	70	110	17	30	40	1.41	C-E-D	£ 279.24
300x1300	19	80	245	70	110	17	30	40	1.49	C-E-D	£ 295.07
300x1370	20	80	245	70	110	17	30	40	1.57	C-E-D	£ 310.06
300x1440	21	80	245	70	110	17	30	40	1.65	C	£ 325.06
300x1510	22	80	245	70	110	17	30	40	1.72	C	£ 340.89
300x1580	23	80	245	70	110	17	30	40	1.80	C	£ 355.87
300x1650	24	80	245	70	110	17	30	40	1.88	C	£ 370.86
300x1720	25	80	245	70	110	17	30	40	1.96	C	£ 385.85
300x1790	26	80	245	70	110	17	30	40	2.04	C	£ 401.69
300x1860	27	80	245	70	110	17	30	40	2.12	C	£ 416.68
300x1930	28	80	245	70	110	17	30	40	2.20	C	£ 431.66
400x320	5	80	345	70	110	17	30	40	0.45	C	£ 89.82
400x390	6	80	345	70	110	17	30	40	0.55	C	£ 106.11
400x460	7	80	345	70	110	17	30	40	0.64	C-E-D	£ 122.59
400x530	8	80	345	70	110	17	30	40	0.73	C-E-D	£ 139.94
400x600	9	80	345	70	110	17	30	40	0.83	C-E-D	£ 156.45
400x670	10	80	345	70	110	17	30	40	0.92	C-E-D	£ 172.97
400x740	11	80	345	70	110	17	30	40	1.01	C-E-D	£ 190.33
400x810	12	80	345	70	110	17	30	40	1.11	C-E-D	£ 206.83
400x880	13	80	345	70	110	17	30	40	1.20	C-E-D	£ 223.36
400x950	14	80	345	70	110	17	30	40	1.29	C-E-D	£ 239.87
400x1020	15	80	345	70	110	17	30	40	1.39	C-E-D	£ 257.23
400x1090	16	80	345	70	110	17	30	40	1.48	C-E-D	£ 273.74
400x1160	17	80	345	70	110	17	30	40	1.57	C-E-D	£ 290.25
400x1230	18	80	345	70	110	17	30	40	1.67	C-E-D	£ 306.77
400x1300	19	80	345	70	110	17	30	40	1.76	C-E-D	£ 324.11
400x1370	20	80	345	70	110	17	30	40	1.85	C-E-D	£ 340.64
400x1440	21	80	345	70	110	17	30	40	1.95	C	£ 357.16
400x1510	22	80	345	70	110	17	30	40	2.04	C	£ 374.51
400x1580	23	80	345	70	110	17	30	40	2.13	C	£ 391.02
400x1650	24	80	345	70	110	17	30	40	2.23	C	£ 407.53
400x1720	25	80	345	70	110	17	30	40	2.32	C	£ 424.05
400x1790	26	80	345	70	110	17	30	40	2.41	C	£ 441.41
400x1860	27	80	345	70	110	17	30	40	2.51	C	£ 457.91
400x1930	28	80	345	70	110	17	30	40	2.60	C	£ 474.44
500x320	5	80	445	70	110	17	30	40	0.53	C	£ 97.85
500x390	6	80	445	70	110	17	30	40	0.63	C	£ 115.65
500x460	7	80	445	70	110	17	30	40	0.74	C-E-D	£ 133.67
500x530	8	80	445	70	110	17	30	40	0.85	C-E-D	£ 152.54
500x600	9	80	445	70	110	17	30	40	0.96	C-E-D	£ 170.58
500x670	10	80	445	70	110	17	30	40	1.06	C-E-D	£ 188.62
500x740	11	80	445	70	110	17	30	40	1.17	C-E-D	£ 207.51
500x810	12	80	445	70	110	17	30	40	1.28	C-E-D	£ 225.54
500x880	13	80	445	70	110	17	30	40	1.39	C-E-D	£ 243.58
500x950	14	80	445	70	110	17	30	40	1.49	C-E-D	£ 261.61
500x1020	15	80	445	70	110	17	30	40	1.60	C-E-D	£ 280.50
500x1090	16	80	445	70	110	17	30	40	1.71	C-E-D	£ 298.54
500x1160	17	80	445	70	110	17	30	40	1.82	C-E-D	£ 316.58
500x1230	18	80	445	70	110	17	30	40	1.92	C-E-D	£ 334.62
500x1300	19	80	445	70	110	17	30	40	2.03	C-E-D	£ 353.50
500x1370	20	80	445	70	110	17	30	40	2.14	C-E-D	£ 371.54
500x1440	21	80	445	70	110	17	30	40	2.25	C	£ 389.57
500x1510	22	80	445	70	110	17	30	40	2.35	C	£ 408.46
500x1580	23	80	445	70	110	17	30	40	2.46	C	£ 426.50
500x1650	24	80	445	70	110	17	30	40	2.57	C	£ 444.53
500x1720	25	80	445	70	110	17	30	40	2.68	C	£ 462.57
500x1790	26	80	445	70	110	17	30	40	2.78	C	£ 481.46

HEAT OUTPUTS INFORMATION

Height x Width (H x W)	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
mm	Watt	Btu	Watt	Btu
300x320	139	475	181	618
300x390	167	570	217	741
300x460	195	665	254	865
300x530	223	760	290	988
300x600	251	855	326	1112
300x670	279	950	362	1235
300x740	307	1045	398	1359
300x810	334	1140	435	1482
300x880	362	1235	471	1606
300x950	390	1330	507	1729
300x1020	418	1425	543	1853
300x1090	446	1520	580	1976
300x1160	474	1615	616	2100
300x1230	502	1710	652	2223
300x1300	529	1805	688	2347
300x1370	557	1900	724	2470
300x1440	585	1995	761	2594
300x1510	613	2090	797	2717
300x1580	641	2185	833	2841
300x1650	669	2280	869	2965
300x1720	697	2375	906	3088
300x1790	724	2470	942	3212
300x1860	752	2565	978	3335
300x1930	780	2660	1014	3459
400x320	190	647	247	842
400x390	228	777	296	1010
400x460	266	906	346	1178
400x530	304	1036	395	1347
400x600	342	1165	444	1515
400x670	380	1295	494	1683
400x740	418	1424	543	1852
400x810	456	1554	592	2020
400x880	494	1683	642	2188
400x950	532	1813	691	2357
400x1020	570	1942	740	2525
400x1090	608	2072	790	2693
400x1160	646	2201	839	2862
400x1230	684	2331	889	3030
400x1300	721	2460	938	3198
400x1370	759	2590	987	3367
400x1440	797	2719	1037	3535
400x1510	835	2849	1086	3703
400x1580	873	2978	1135	3872
400x1650	911	3108	1185	4040
400x1720	949	3237	1234	4208
400x1790	987	3367	1283	4377
400x1860	1025	3496	1333	4545
400x1930	1063	3626	1382	4713
500x320	243	827	315	1075
500x390	291	993	378	1290
500x460	340	1158	441	1505
500x530	388	1323	505	1720
500x600	437	1489	568	1936
500x670	485	1654	631	2151
500x740	534	1820	694	2366
500x810	582	1985	757	2581
500x880	631	2151	820	2796
500x950	679	2316	883	3011
500x1020	728	2481	946	3226
500x1090	776	2647	1009	3441
500x1160	825	2812	1072	3656
500x1230	873	2978	1135	3871
500x1300	922	3143	1198	4086
500x1370	970	3309	1261	4301
500x1440	1019	3474	1324	4516
500x1510	1067	3639	1387	4731
500x1580	1116	3805	1451	4946
500x1650	1164	3970	1514	5161
500x1720	1213	4136	1577	5376
500x1790	1261	4301	1640	5592

LOGISTICS INFORMATION

Net Weight	Gross Weight	Package Volume	Package Dimensions (H x W x D)
kg	kg	m³	mm
3.06	4.02	0.02	410X367X122
3.68	4.73	0.03	410X437X122
4.31	5.43	0.03	410X507X122
4.93	6.13	0.03	410X577X122
5.56	6.83	0.04	410X647X122
6.18	7.53	0.04	410X717X122
6.81	8.24	0.04	410X787X122
7.43	8.93	0.05	410X857X122
8.05	9.62	0.05	410X927X122
8.68	10.33	0.05	410X997X122
9.31	11.04	0.06	410X1067X122
9.93	11.74	0.06	410X1137X122
10.56	12.43	0.07	410X1207X122
11.18	13.14	0.07	410X1277X122
11.80	13.83	0.07	410X1347X122
12.43	14.54	0.08	410X1417X122
13.05	15.23	0.08	410X1487X122
13.68	15.93	0.08	410X1557X122
14.31	16.65	0.09	410X1627X122
14.92	17.33	0.09	410X1697X122

OPAL

TECHNICAL INFORMATION

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

Height x Width (H x W)	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	Prices Ex. Vat
mm	pieces	mm	mm	mm	mm	mm	mm	mm	L		
500x1860	27	80	445	70	110	17	30	40	2.89	C	£ 499.49
500x1930	28	80	445	70	110	17	30	40	3.00	C	£ 517.53
600x320	5	80	545	70	110	17	30	40	0.60	C	£ 104.54
600x390	6	80	545	70	110	17	30	40	0.72	C	£ 123.87
600x460	7	80	545	70	110	17	30	40	0.84	C-E-D	£ 143.40
600x530	8	80	545	70	110	17	30	40	0.96	C-E-D	£ 163.80
600x600	9	80	545	70	110	17	30	40	1.08	C-E-D	£ 183.37
600x670	10	80	545	70	110	17	30	40	1.21	C-E-D	£ 202.94
600x740	11	80	545	70	110	17	30	40	1.33	C-E-D	£ 223.34
600x810	12	80	545	70	110	17	30	40	1.45	C-E-D	£ 242.90
600x880	13	80	545	70	110	17	30	40	1.57	C-E-D	£ 262.46
600x950	14	80	545	70	110	17	30	40	1.69	C-E-D	£ 282.03
600x1020	15	80	545	70	110	17	30	40	1.82	C-E-D	£ 302.44
600x1090	16	80	545	70	110	17	30	40	1.94	C-E-D	£ 322.00
600x1160	17	80	545	70	110	17	30	40	2.06	C-E-D	£ 341.56
600x1230	18	80	545	70	110	17	30	40	2.18	C-E-D	£ 361.12
600x1300	19	80	545	70	110	17	30	40	2.30	C-E-D	£ 381.53
600x1370	20	80	545	70	110	17	30	40	2.42	C-E-D	£ 401.10
600x1440	21	80	545	70	110	17	30	40	2.55	C	£ 420.66
600x1510	22	80	545	70	110	17	30	40	2.67	C	£ 441.07
600x1580	23	80	545	70	110	17	30	40	2.79	C	£ 460.62
600x1650	24	80	545	70	110	17	30	40	2.91	C	£ 480.19
600x1720	25	80	545	70	110	17	30	40	3.03	C	£ 499.76
600x1790	26	80	545	70	110	17	30	40	3.16	C	£ 520.16
600x1860	27	80	545	70	110	17	30	40	3.28	C	£ 539.73
600x1930	28	80	545	70	110	17	30	40	3.40	C	£ 559.28
700x320	5	80	645	70	110	17	30	40	0.67	C	£ 117.14
700x390	6	80	645	70	110	17	30	40	0.80	C	£ 138.66
700x460	7	80	645	70	110	17	30	40	0.94	C-E-D	£ 160.36
700x530	8	80	645	70	110	17	30	40	1.08	C-E-D	£ 182.94
700x600	9	80	645	70	110	17	30	40	1.21	C-E-D	£ 204.67
700x670	10	80	645	70	110	17	30	40	1.35	C-E-D	£ 226.40
700x740	11	80	645	70	110	17	30	40	1.49	C-E-D	£ 248.99
700x810	12	80	645	70	110	17	30	40	1.62	C-E-D	£ 270.72
700x880	13	80	645	70	110	17	30	40	1.76	C-E-D	£ 292.46
700x950	14	80	645	70	110	17	30	40	1.89	C-E-D	£ 314.19
700x1020	15	80	645	70	110	17	30	40	2.03	C-E-D	£ 336.77
700x1090	16	80	645	70	110	17	30	40	2.17	C-E-D	£ 358.50
700x1160	17	80	645	70	110	17	30	40	2.30	C-E-D	£ 380.25
700x1230	18	80	645	70	110	17	30	40	2.44	C-E-D	£ 401.98
700x1300	19	80	645	70	110	17	30	40	2.57	C-E-D	£ 424.55
700x1370	20	80	645	70	110	17	30	40	2.71	C-E-D	£ 446.29
700x1440	21	80	645	70	110	17	30	40	2.85	C	£ 468.03
700x1510	22	80	645	70	110	17	30	40	2.98	C	£ 490.60
700x1580	23	80	645	70	110	17	30	40	3.12	C	£ 512.35
700x1650	24	80	645	70	110	17	30	40	3.26	C	£ 534.07
700x1720	25	80	645	70	110	17	30	40	3.39	C	£ 555.82
700x1790	26	80	645	70	110	17	30	40	3.53	C	£ 578.39
700x1860	27	80	645	70	110	17	30	40	3.66	C	£ 600.13
700x1930	28	80	645	70	110	17	30	40	3.80	C	£ 621.87
800x320	5	80	745	70	110	17	30	40	0.74	C	£ 125.17
800x390	6	80	745	70	110	17	30	40	0.89	C	£ 148.21
800x460	7	80	745	70	110	17	30	40	1.04	C-E-D	£ 171.44
800x530	8	80	745	70	110	17	30	40	1.19	C-E-D	£ 195.54
800x600	9	80	745	70	110	17	30	40	1.34	C-E-D	£ 218.80
800x670	10	80	745	70	110	17	30	40	1.49	C-E-D	£ 242.07
800x740	11	80	745	70	110	17	30	40	1.64	C-E-D	£ 266.17
800x810	12	80	745	70	110	17	30	40	1.79	C-E-D	£ 289.42
800x880	13	80	745	70	110	17	30	40	1.94	C-E-D	£ 312.68
800x950	14	80	745	70	110	17	30	40	2.09	C-E-D	£ 335.94
800x1020	15	80	745	70	110	17	30	40	2.24	C-E-D	£ 360.05
800x1090	16	80	745	70	110	17	30	40	2.40	C-E-D	£ 383.31
800x1160	17	80	745	70	110	17	30	40	2.55	C-E-D	£ 406.57
800x1230	18	80	745	70	110	17	30	40	2.70	C-E-D	£ 429.83
800x1300	19	80	745	70	110	17	30	40	2.85	C-E-D	£ 453.93
800x1370	20	80	745	70	110	17	30	40	3.00	C-E-D	£ 477.20
800x1440	21	80	745	70	110	17	30	40	3.15	C	£ 500.46
800x1510	22	80	745	70	110	17	30	40	3.30	C	£ 524.55
800x1580	23	80	745	70	110	17	30	40	3.45	C	£ 547.81
800x1650	24	80	745	70	110	17	30	40	3.60	C	£ 571.07

HEAT OUTPUTS INFORMATION

Height x Width (H x W)	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
mm	Watt	Btu	Watt	Btu
500x1860	1310	4467	1703	5807
500x1930	1358	4632	1766	6022
600x320	298	1015	387	1319
600x390	357	1217	464	1583
600x460	417	1420	541	1846
600x530	476	1623	619	2110
600x600	536	1826	696	2374
600x670	595	2029	774	2638
600x740	655	2232	851	2901
600x810	714	2435	928	3165
600x880	774	2638	1006	3429
600x950	833	2841	1083	3693
600x1020	893	3044	1160	3957
600x1090	952	3246	1238	4220
600x1160	1012	3449	1315	4484
600x1230	1071	3652	1392	4748
600x1300	1131	3855	1470	5012
600x1370	1190	4058	1547	5275
600x1440	1250	4261	1624	5539
600x1510	1309	4464	1702	5803
600x1580	1369	4667	1779	6067
600x1650	1428	4870	1856	6330
600x1720	1488	5072	1934	6594
600x1790	1547	5275	2011	6858
600x1860	1607	5478	2088	7122
600x1930	1666	5681	2166	7385
700x320	340	1158	441	1505
700x390	408	1390	530	1807
700x460	475	1621	618	2108
700x530	543	1853	706	2409
700x600	611	2084	795	2710
700x670	679	2316	883	3011
700x740	747	2548	971	3312
700x810	815	2779	1060	3613
700x880	883	3011	1148	3914
700x950	951	3242	1236	4215
700x1020	1019	3474	1324	4516
700x1090	1087	3706	1413	4817
700x1160	1155	3937	1501	5118
700x1230	1223	4169	1589	5419
700x1300	1290	4400	1678	5721
700x1370	1358	4632	1766	6022
700x1440	1426	4864	1854	6323
700x1510	1494	5095	1942	6624
700x1580	1562	5327	2031	6925
700x1650	1630	5558	2119	7226
700x1720	1698	5790	2207	7527
700x1790	1766	6022	2296	7828
700x1860	1834	6253	2384	8129
700x1930	1902	6485	2472	8430
800x320	380	1295	494	1683
800x390	456	1554	592	2020
800x460	532	1813	691	2357
800x530	608	2072	790	2693
800x600	684	2331	889	3030
800x670	759	2590	987	3367
800x740	835	2849	1086	3703
800x810	911	3108	1185	4040
800x880	987	3367	1283	4377
800x950	1063	3626	1382	4713
800x1020	1139	3885	1481	5050
800x1090	1215	4144	1580	5387
800x1160	1291	4402	1678	5723
800x1230	1367	4661	1777	6060
800x1300	1443	4920	1876	6397
800x1370	1519	5179	1975	6733
800x1440	1595	5438	2073	7070
800x1510	1671	5697	2172	7407
800x1580	1747	5956	2271	7743
800x1650	1823	6215	2369	8080

LOGISTICS INFORMATION

Net Weight	Gross Weight	Package Volume	Package Dimensions (H x W x D)
kg	kg	m³	mm
24.57	27.99	0.15	610X1907X122
25.48	29.00	0.15	610X1977X122
5.22	6.41	0.04	710X367X122
6.27	7.56	0.04	710X437X122
7.32	8.73	0.05	710X507X122
8.38	9.90	0.05	710X577X122
9.44	11.08	0.06	710X647X122
10.50	12.25	0.07	710X717X122
11.56	13.42	0.07	710X787X122
12.60	14.57	0.08	710X857X122
13.66	15.75	0.09	710X927X122
14.72	16.92	0.09	710X997X122
15.78	18.10	0.10	710X1067X122
16.84	19.28	0.10	710X1137X122
17.89	20.42	0.11	710X1207X122
18.94	21.59	0.12	710X1277X122
20.00	22.77	0.12	710X1347X122
21.06	23.95	0.13	710X1417X122
22.11	25.11	0.13	710X1487X122
23.17	26.29	0.14	710X1557X122
24.23	27.45	0.15	710X1627X122
25.28	28.62	0.15	710X1697X122
26.33	29.78	0.16	710X1767X122
27.39	30.97	0.16	710X1837X122
28.45	32.14	0.17	710X1907X122
29.51	33.31	0.18	710X1977X122
5.94	7.35	0.04	810X367X122
7.13	8.68	0.05	810X437X122
8.33	10.00	0.06	810X507X122
9.53	11.33	0.06	810X577X122
10.74	12.66	0.07	810X647X122
11.94	13.99	0.08	810X717X122
13.14	15.32	0.08	810X787X122
14.33	16.63	0.09	810X857X122
15.53	17.96	0.10	810X927X122
16.73	19.29	0.10	810X997X122
17.93	20.61	0.11	810X1067X122
19.14	21.94	0.12	810X1137X122
20.34	23.28	0.12	810X1207X122
21.53	24.59	0.13	810X1277X122
22.73	25.92	0.14	810X1347X122
23.93	27.24	0.15	810X1417X122
25.13	28.58	0.15	810X1487X122
26.34	29.91	0.16	810X1557X122
27.54	31.24	0.17	810X1627X122
28.73	32.55	0.17	810X1697X122
29.93	33.89	0.18	810X1767X122
31.13	35.21	0.19	810X1837X122
32.33	36.53	0.19	810X1907X122
33.53	37.86	0.20	810X1977X122
6.66	8.19	0.05	910X367X122
7.99	9.66	0.05	910X437X122
9.34	11.15	0.06	910X507X122
10.68	12.63	0.07	910X577X122
12.03	14.11	0.08	910X647X122
13.37	15.60	0.08	910X717X122
14.72	17.08	0.09	910X787X122
16.06	18.55	0.10	910X857X122
17.40	20.04	0.11	910X927X122
18.75	21.53	0.12	910X997X122
20.09	23.01	0.12	910X1067X122
21.44	24.50	0.13	910X1137X122
22.78	25.97	0.14	910X1207X122
24.12	27.46	0.15	910X1277X122
25.46	28.93	0.15	910X1347X122
26.81	30.42	0.16	910X1417X122
28.15	31.91	0.17	910X1487X122
29.50	33.40	0.18	910X1557X122
30.84	34.87	0.19	910X1627X122
32.18	36.35	0.19	910X1697X122

OPAL

TECHNICAL INFORMATION

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

Height x Width (H x W)	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	Prices Ex. Vat
mm	pieces	mm	mm	mm	mm	mm	mm	mm	L		
800x1720	25	80	745	70	110	17	30	40	3.75	C	£ 594.34
800x1790	26	80	745	70	110	17	30	40	3.90	C	£ 618.44
800x1860	27	80	745	70	110	17	30	40	4.05	C	£ 641.70
800x1930	28	80	745	70	110	17	30	40	4.20	C	£ 664.97
900x320	5	80	845	70	110	17	30	40	0.81	C	£ 133.20
900x390	6	80	845	70	110	17	30	40	0.98	C	£ 157.76
900x460	7	80	845	70	110	17	30	40	1.14	C-E-D	£ 182.52
900x530	8	80	845	70	110	17	30	40	1.31	C-E-D	£ 208.14
900x600	9	80	845	70	110	17	30	40	1.47	C-E-D	£ 232.93
900x670	10	80	845	70	110	17	30	40	1.64	C-E-D	£ 257.71
900x740	11	80	845	70	110	17	30	40	1.80	C-E-D	£ 283.35
900x810	12	80	845	70	110	17	30	40	1.96	C-E-D	£ 308.12
900x880	13	80	845	70	110	17	30	40	2.13	C-E-D	£ 332.91
900x950	14	80	845	70	110	17	30	40	2.29	C-E-D	£ 357.70
900x1020	15	80	845	70	110	17	30	40	2.46	C-E-D	£ 383.32
900x1090	16	80	845	70	110	17	30	40	2.62	C-E-D	£ 408.12
900x1160	17	80	845	70	110	17	30	40	2.79	C-E-D	£ 432.89
900x1230	18	80	845	70	110	17	30	40	2.95	C-E-D	£ 457.69
900x1300	19	80	845	70	110	17	30	40	3.12	C-E-D	£ 483.30
900x1370	20	80	845	70	110	17	30	40	3.28	C-E-D	£ 508.09
900x1440	21	80	845	70	110	17	30	40	3.45	C	£ 532.88
900x1510	22	80	845	70	110	17	30	40	3.61	C	£ 558.50
900x1580	23	80	845	70	110	17	30	40	3.78	C	£ 583.30
900x1650	24	80	845	70	110	17	30	40	3.94	C	£ 608.07
900x1720	25	80	845	70	110	17	30	40	4.11	C	£ 632.87
900x1790	26	80	845	70	110	17	30	40	4.27	C	£ 658.49
900x1860	27	80	845	70	110	17	30	40	4.44	C	£ 683.28
900x1930	28	80	845	70	110	17	30	40	4.60	C	£ 708.07
1000x320	5	80	945	70	110	17	30	40	0.88	C	£ 146.46
1000x390	6	80	945	70	110	17	30	40	1.06	C	£ 173.51
1000x460	7	80	945	70	110	17	30	40	1.24	C-E-D	£ 200.76
1000x530	8	80	945	70	110	17	30	40	1.42	C-E-D	£ 228.92
1000x600	9	80	945	70	110	17	30	40	1.60	C-E-D	£ 256.21
1000x670	10	80	945	70	110	17	30	40	1.78	C-E-D	£ 283.49
1000x740	11	80	945	70	110	17	30	40	1.96	C-E-D	£ 311.65
1000x810	12	80	945	70	110	17	30	40	2.14	C-E-D	£ 338.93
1000x880	13	80	945	70	110	17	30	40	2.32	C-E-D	£ 366.22
1000x950	14	80	945	70	110	17	30	40	2.49	C-E-D	£ 393.51
1000x1020	15	80	945	70	110	17	30	40	2.67	C-E-D	£ 421.65
1000x1090	16	80	945	70	110	17	30	40	2.85	C-E-D	£ 448.94
1000x1160	17	80	945	70	110	17	30	40	3.03	C-E-D	£ 476.22
1000x1230	18	80	945	70	110	17	30	40	3.21	C-E-D	£ 503.51
1000x1300	19	80	945	70	110	17	30	40	3.39	C-E-D	£ 531.66
1000x1370	20	80	945	70	110	17	30	40	3.57	C-E-D	£ 558.95
1000x1440	21	80	945	70	110	17	30	40	3.75	C	£ 586.24
1000x1510	22	80	945	70	110	17	30	40	3.93	C	£ 614.39
1000x1580	23	80	945	70	110	17	30	40	4.11	C	£ 641.68
1000x1650	24	80	945	70	110	17	30	40	4.29	C	£ 668.96
1000x1720	25	80	945	70	110	17	30	40	4.46	C	£ 696.25
1000x1790	26	80	945	70	110	17	30	40	4.64	C	£ 724.41
1000x1860	27	80	945	70	110	17	30	40	4.82	C	£ 751.69
1000x1930	28	80	945	70	110	17	30	40	5.00	C	£ 778.98
1200x320	5	80	1145	70	110	17	30	40	1.03	C	£ 166.47
1200x390	6	80	1145	70	110	17	30	40	1.23	C	£ 197.35
1200x460	7	80	1145	70	110	17	30	40	1.44	C-E-D	£ 228.44
1200x530	8	80	1145	70	110	17	30	40	1.65	C-E-D	£ 260.43
1200x600	9	80	1145	70	110	17	30	40	1.86	C-E-D	£ 291.54
1200x670	10	80	1145	70	110	17	30	40	2.06	C-E-D	£ 322.68
1200x740	11	80	1145	70	110	17	30	40	2.27	C-E-D	£ 354.67
1200x810	12	80	1145	70	110	17	30	40	2.48	C-E-D	£ 385.79
1200x880	13	80	1145	70	110	17	30	40	2.69	C-E-D	£ 416.91
1200x950	14	80	1145	70	110	17	30	40	2.90	C-E-D	£ 448.02
1200x1020	15	80	1145	70	110	17	30	40	3.10	C-E-D	£ 480.01
1200x1090	16	80	1145	70	110	17	30	40	3.31	C-E-D	£ 511.13
1200x1160	17	80	1145	70	110	17	30	40	3.52	C-E-D	£ 542.25
1200x1230	18	80	1145	70	110	17	30	40	3.73	C-E-D	£ 573.37
1200x1300	19	80	1145	70	110	17	30	40	3.93	C-E-D	£ 605.36
1200x1370	20	80	1145	70	110	17	30	40	4.14	C-E-D	£ 636.48
1400x320	5	80	1345	70	110	17	30	40	1.17	C	£ 183.13
1400x390	6	80	1345	70	110	17	30	40	1.41	C	£ 217.18

HEAT OUTPUTS INFORMATION

Height x Width (H x W)	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
mm	Watt	Btu	Watt	Btu
800x1720	1899	6474	2468	8417
800x1790	1975	6733	2567	8753
800x1860	2050	6992	2666	9090
800x1930	2126	7251	2764	9427
900x320	418	1425	543	1853
900x390	502	1710	652	2223
900x460	585	1995	761	2594
900x530	669	2280	869	2965
900x600	752	2565	978	3335
900x670	836	2850	1087	3706
900x740	920	3136	1195	4076
900x810	1003	3421	1304	4447
900x880	1087	3706	1413	4817
900x950	1170	3991	1521	5188
900x1020	1254	4276	1630	5558
900x1090	1337	4561	1739	5929
900x1160	1421	4846	1847	6300
900x1230	1505	5131	1956	6670
900x1300	1588	5416	2065	7041
900x1370	1672	5701	2173	7411
900x1440	1755	5986	2282	7782
900x1510	1839	6271	2391	8152
900x1580	1923	6556	2499	8523
900x1650	2006	6841	2608	8893
900x1720	2090	7126	2717	9264
900x1790	2173	7411	2825	9635
900x1860	2257	7696	2934	10005
900x1930	2341	7981	3043	10376
1000x320	454	1549	591	2014
1000x390	545	1859	709	2417
1000x460	636	2169	827	2820
1000x530	727	2479	945	3223
1000x600	818	2789	1063	3626
1000x670	909	3099	1181	4028
1000x740	1000	3409	1299	4431
1000x810	1090	3719	1418	4834
1000x880	1181	4028	1536	5237
1000x950	1272	4338	1654	5640
1000x1020	1363	4648	1772	6043
1000x1090	1454	4958	1890	6445
1000x1160	1545	5268	2008	6848
1000x1230	1636	5578	2126	7251
1000x1300	1727	5888	2245	7654
1000x1370	1817	6198	2363	8057
1000x1440	1908	6507	2481	8460
1000x1510	1999	6817	2599	8863
1000x1580	2090	7127	2717	9265
1000x1650	2181	7437	2835	9668
1000x1720	2272	7747	2953	10071
1000x1790	2363	8057	3072	10474
1000x1860	2454	8367	3190	10877
1000x1930	2544	8677	3308	11280
1200x320	522	1779	678	2313
1200x390	626	2135	814	2775
1200x460	730	2491	949	3238
1200x530	835	2846	1085	3700
1200x600	939	3202	1221	4163
1200x670	1043	3558	1356	4625
1200x740	1148	3914	1492	5088
1200x810	1252	4270	1628	5550
1200x880	1356	4625	1763	6013
1200x950	1461	4981	1899	6475
1200x1020	1565	5337	2035	6938
1200x1090	1669	5693	2170	7400
1200x1160	1774	6048	2306	7863
1200x1230	1878	6404	2442	8326
1200x1300	1982	6760	2577	8788
1200x1370	2087	7116	2713	9251
1400x320	599	2043	779	2655
1400x390	719	2451	934	3186

LOGISTICS INFORMATION

Net Weight	Gross Weight	Package Volume	Package Dimensions (H x W x D)
kg	kg	m³	mm
33.52	37.82	0.20	910X1767X122
34.87	39.32	0.21	910X1837X122
36.22	40.81	0.22	910X1907X122
37.56	42.28	0.22	910X1977X122
7.38	9.02	0.05	1010X367X122
8.86	10.65	0.06	1010X437X122
10.34	12.29	0.07	1010X507X122
11.83	13.92	0.08	1010X577X122
13.32	15.57	0.08	1010X647X122
14.81	17.21	0.09	1010X717X122
16.30	18.86	0.10	1010X787X122
17.78	20.48	0.11	1010X857X122
19.27	22.12	0.12	1010X927X122
20.76	23.77	0.13	1010X997X122
22.25	25.41	0.14	1010X1067X122
23.74	27.05	0.15	1010X1137X122
25.23	28.68	0.15	1010X1207X122
26.71	30.32	0.16	1010X1277X122
28.20	31.97	0.17	1010X1347X122
29.68	33.59	0.18	1010X1417X122
31.17	35.23	0.19	1010X1487X122
32.66	36.87	0.20	1010X1557X122
34.15	38.52	0.21	1010X1627X122
35.63	40.15	0.21	1010X1697X122
37.12	41.79	0.22	1010X1767X122
38.61	43.44	0.23	1010X1837X122
40.10	45.08	0.24	1010X1907X122
41.59	46.71	0.25	1010X1977X122
8.10	9.86	0.05	1110X367X122
9.72	11.64	0.06	1110X437X122
11.35	13.43	0.07	1110X507X122
12.98	15.23	0.08	1110X577X122
14.62	17.03	0.09	1110X647X122
16.25	18.83	0.10	1110X717X122
17.88	20.61	0.11	1110X787X122
19.51	22.42	0.12	1110X857X122
21.14	24.21	0.13	1110X927X122
22.77	26.00	0.14	1110X997X122
24.41	27.80	0.15	1110X1067X122
26.04	29.60	0.16	1110X1137X122
27.67	31.39	0.17	1110X1207X122
29.29	33.17	0.18	1110X1277X122
30.93	34.97	0.19	1110X1347X122
32.56	36.78	0.20	1110X1417X122
34.19	38.56	0.21	1110X1487X122
35.83	40.37	0.22	1110X1557X122
37.46	42.17	0.23	1110X1627X122
39.08	43.95	0.23	1110X1697X122
40.71	45.75	0.24	1110X1767X122
42.35	47.54	0.25	1110X1837X122
43.98	49.35	0.26	1110X1907X122
45.61	51.14	0.27	1110X1977X122
9.53	11.50	0.06	1310X367X122
11.44	13.61	0.07	1310X437X122
13.36	15.72	0.09	1310X507X122
15.29	17.83	0.10	1310X577X122
17.21	19.94	0.11	1310X647X122
19.13	22.06	0.12	1310X717X122
21.05	24.16	0.13	1310X787X122
22.96	26.26	0.14	1310X857X122
24.88	28.38	0.15	1310X927X122
26.80	30.48	0.16	1310X997X122
28.72	32.59	0.18	1310X1067X122
30.64	34.70	0.19	1310X1137X122
32.56	36.81	0.20	1310X1207X122
34.47	38.91	0.21	1310X1277X122
36.39	41.02	0.22	1310X1347X122
38.31	43.12	0.23	1310X1417X122
10.97	13.17	0.07	1510X367X122
13.17	15.58	0.09	1510X437X122

OPAL

TECHNICAL INFORMATION

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

Height x Width (H x W)	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	Prices Ex. Vat
mm	pieces	mm	mm	mm	mm	mm	mm	mm	L		
1400x460	7	80	1345	70	110	17	30	40	1,64	C-E-D	£ 251.42
1400x530	8	80	1345	70	110	17	30	40	1,88	C-E-D	£ 286.57
1400x600	9	80	1345	70	110	17	30	40	2,11	C-E-D	£ 320.85
1400x670	10	80	1345	70	110	17	30	40	2,35	C-E-D	£ 355.13
1400x740	11	80	1345	70	110	17	30	40	2,59	C-E-D	£ 390.30
1400x810	12	80	1345	70	110	17	30	40	2,82	C-E-D	£ 424.57
1400x880	13	80	1345	70	110	17	30	40	3,06	C-E-D	£ 458.86
1400x950	14	80	1345	70	110	17	30	40	3,30	C-E-D	£ 493.13
1400x1020	15	80	1345	70	110	17	30	40	3,53	C-E-D	£ 528.29
1400x1090	16	80	1345	70	110	17	30	40	3,77	C-E-D	£ 562.57
1400x1160	17	80	1345	70	110	17	30	40	4,00	C-E-D	£ 596.85
1400x1230	18	80	1345	70	110	17	30	40	4,24	C-E-D	£ 631.14
1400x1300	19	80	1345	70	110	17	30	40	4,48	C-E-D	£ 666.29
1600x320	5	80	1545	70	110	17	30	40	1,31	C	£ 213.80
1600x390	6	80	1545	70	110	17	30	40	1,58	C	£ 253.82
1600x460	7	80	1545	70	110	17	30	40	1,84	C-E-D	£ 294.03
1600x530	8	80	1545	70	110	17	30	40	2,11	C-E-D	£ 335.13
1600x600	9	80	1545	70	110	17	30	40	2,37	C-E-D	£ 375.37
1600x670	10	80	1545	70	110	17	30	40	2,64	C-E-D	£ 415.61
1600x740	11	80	1545	70	110	17	30	40	2,90	C-E-D	£ 456.73
1600x810	12	80	1545	70	110	17	30	40	3,17	C-E-D	£ 496.97
1600x880	13	80	1545	70	110	17	30	40	3,43	C-E-D	£ 537.21
1600x950	14	80	1545	70	110	17	30	40	3,70	C-E-D	£ 577.44
1600x1020	15	80	1545	70	110	17	30	40	3,96	C-E-D	£ 618.55
1800x320	5	80	1745	70	110	17	30	40	1,46	C	£ 236.19
1800x390	6	80	1745	70	110	17	30	40	1,75	C	£ 279.68
1800x460	7	80	1745	70	110	17	30	40	2,04	C-E-D	£ 323.38
1800x530	8	80	1745	70	110	17	30	40	2,34	C-E-D	£ 368.00
1800x600	9	80	1745	70	110	17	30	40	2,63	C-E-D	£ 411.73
1800x670	10	80	1745	70	110	17	30	40	2,92	C-E-D	£ 455.48
1800x740	11	80	1745	70	110	17	30	40	3,22	C-E-D	£ 500.09
1800x810	12	80	1745	70	110	17	30	40	3,51	C-E-D	£ 543.83
1800x880	13	80	1745	70	110	17	30	40	3,80	C-E-D	£ 587.56
1800x950	14	80	1745	70	110	17	30	40	4,10	C-E-D	£ 631.30
1800x1020	15	80	1745	70	110	17	30	40	4,39	C-E-D	£ 675.92
2000x320	5	80	1945	70	110	17	30	40	1,60	C	£ 248.78
2000x390	6	80	1945	70	110	17	30	40	1,92	C	£ 295.46
2000x460	7	80	1945	70	110	17	30	40	2,24	C-E-D	£ 342.32
2000x530	8	80	1945	70	110	17	30	40	2,56	C-E-D	£ 390.09
2000x600	9	80	1945	70	110	17	30	40	2,89	C-E-D	£ 437.00
2000x670	10	80	1945	70	110	17	30	40	3,21	C-E-D	£ 483.90
2000x740	11	80	1945	70	110	17	30	40	3,53	C-E-D	£ 531.68
2000x810	12	80	1945	70	110	17	30	40	3,85	C-E-D	£ 578.57
2000x880	13	80	1945	70	110	17	30	40	4,17	C-E-D	£ 625.47
2000x950	14	80	1945	70	110	17	30	40	4,50	C-E-D	£ 672.38
2000x1020	15	80	1945	70	110	17	30	40	4,82	C-E-D	£ 720.15

HEAT OUTPUTS INFORMATION

Height x Width (H x W)	Heat Outputs ΔT 50 °C		Heat Outputs ΔT 60 °C	
mm	Watt	Btu	Watt	Btu
1400x460	839	2860	1090	3717
1400x530	958	3268	1246	4248
1400x600	1078	3677	1402	4780
1400x670	1198	4085	1557	5311
1400x740	1318	4494	1713	5842
1400x810	1438	4902	1869	6373
1400x880	1557	5311	2025	6904
1400x950	1677	5719	2180	7435
1400x1020	1797	6128	2336	7966
1400x1090	1917	6536	2492	8497
1400x1160	2037	6945	2647	9028
1400x1230	2156	7353	2803	9559
1400x1300	2276	7762	2959	10090
1600x320	688	2345	894	3049
1600x390	825	2814	1073	3658
1600x460	963	3283	1252	4268
1600x530	1100	3752	1430	4878
1600x600	1238	4221	1609	5488
1600x670	1375	4690	1788	6097
1600x740	1513	5159	1967	6707
1600x810	1651	5628	2146	7317
1600x880	1788	6097	2325	7927
1600x950	1926	6566	2503	8536
1600x1020	2063	7035	2682	9146
1800x320	790	2693	1027	3500
1800x390	948	3231	1232	4200
1800x460	1105	3770	1437	4901
1800x530	1263	4308	1642	5601
1800x600	1421	4847	1848	6301
1800x670	1579	5385	2053	7001
1800x740	1737	5924	2258	7701
1800x810	1895	6462	2464	8401
1800x880	2053	7001	2669	9101
1800x950	2211	7539	2874	9801
1800x1020	2369	8078	3080	10501
2000x320	907	3092	1179	4019
2000x390	1088	3710	1414	4823
2000x460	1269	4328	1650	5627
2000x530	1451	4946	1886	6430
2000x600	1632	5565	2121	7234
2000x670	1813	6183	2357	8038
2000x740	1995	6801	2593	8842
2000x810	2176	7420	2829	9646
2000x880	2357	8038	3064	10449
2000x950	2539	8656	3300	11253
2000x1020	2720	9275	3536	12057

LOGISTICS INFORMATION

Net Weight	Gross Weight	Package Volume	Package Dimensions (H x W x D)
kg	kg	m³	mm
15.38	18.01	0.10	1510X507X122
17.59	20.43	0.11	1510X577X122
19.79	22.84	0.12	1510X647X122
22.00	25.27	0.14	1510X717X122
24.21	27.70	0.15	1510X787X122
26.41	30.12	0.16	1510X857X122
28.62	32.54	0.18	1510X927X122
30.82	34.95	0.19	1510X997X122
33.03	37.38	0.20	1510X1067X122
35.24	39.80	0.21	1510X1137X122
37.45	42.22	0.23	1510X1207X122
39.65	44.64	0.24	1510X1277X122
41.86	47.07	0.25	1510X1347X122
12.37	14.81	0.08	1710X367X122
14.87	17.55	0.10	1710X437X122
17.35	20.26	0.11	1710X507X122
19.84	22.99	0.13	1710X577X122
22.32	25.72	0.14	1710X647X122
24.81	28.44	0.15	1710X717X122
27.30	31.17	0.17	1710X787X122
29.79	33.90	0.18	1710X857X122
32.28	36.64	0.20	1710X927X122
34.76	39.35	0.21	1710X997X122
37.25	42.08	0.23	1710X1067X122
13.81	16.35	0.09	1910X367X122
16.59	19.39	0.11	1910X437X122
19.36	22.42	0.12	1910X507X122
22.14	25.47	0.14	1910X577X122
24.91	28.50	0.16	1910X647X122
27.68	31.53	0.17	1910X717X122
30.47	34.59	0.19	1910X787X122
33.24	37.63	0.20	1910X857X122
36.01	40.65	0.22	1910X927X122
38.79	43.70	0.24	1910X997X122
41.56	46.74	0.25	1910X1067X122
15.25	18.13	0.10	2110X367X122
18.32	21.50	0.12	2110X437X122
21.38	24.84	0.14	2110X507X122
24.44	28.20	0.15	2110X577X122
27.50	31.54	0.17	2110X647X122
30.56	34.89	0.19	2110X717X122
33.63	38.25	0.21	2110X787X122
36.69	41.61	0.23	2110X857X122
39.75	44.96	0.24	2110X927X122
42.81	48.30	0.26	2110X997X122
45.88	51.66	0.28	2110X1067X122

CONNECTIONS TYPE



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.

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