

Castrads®

Declaration of Performance

No. 202209-1086

Emmeline II 870mm

Unique product code:	CI-EML2-870
Type, batch or serial number:	CI-EML2-870
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Ltd 1 Kenwood Road North Reddish SK5 6PH, Manchester, United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	BSRIA
Test report number:	104331/2

Declared performance

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	A1	
Release of dangerous substances	None	
Pressure tightness	No leakage at 1.3 x maximum operating pressure [kPa]	
Surface temperature	Maximum 120°C	
Resistance to pressure	No breakage at 1.69 x maximum operating pressure [kPa] Maximum operating pressure: 1000 [kPa]	EN 442-1:2014
Rated thermal outputs	See appendix 1	
Thermal output in different operating conditions (characteristic curve)	$\phi = K_m \cdot \Delta T^n$. See appendix for factor K_m and exponent n	
Resistance against corrosion	No corrosion after 100h humidity	
Resistance against minor impact:	Class 0	

Signed for and on behalf of the manufacturer by:

Nicholas Baylis
CEO
Stockport, England
28th April 2026





Appendix to DOP No. 202209-1086: Dimensions and thermal outputs

Panel dimensions: 870mm high when floor standing, 170mm deep for all numbers of sections. See table for length.

SKU	Num of sec.	Length, mm	Output (Watts, DT50)	Output (Watts, DT30)	Factor, Km	Exponent, n
CI-EML2-870-03	3	230	340	177	2.290	1.2785
CI-EML2-870-04	4	296	454	236	3.053	1.2785
CI-EML2-870-05	5	363	567	295	3.816	1.2785
CI-EML2-870-06	6	429	681	354	4.579	1.2785
CI-EML2-870-07	7	496	794	413	5.342	1.2785
CI-EML2-870-08	8	562	908	472	6.105	1.2785
CI-EML2-870-09	9	629	1021	531	6.869	1.2785
CI-EML2-870-10	10	695	1134	590	7.632	1.2785
CI-EML2-870-11	11	762	1248	649	8.395	1.2785
CI-EML2-870-12	12	828	1361	708	9.158	1.2785
CI-EML2-870-13	13	895	1475	767	9.921	1.2785
CI-EML2-870-14	14	961	1588	827	10.685	1.2785
CI-EML2-870-15	15	1028	1702	886	11.448	1.2785
CI-EML2-870-16	16	1094	1815	945	12.211	1.2785
CI-EML2-870-17	17	1161	1928	1004	12.974	1.2785
CI-EML2-870-18	18	1227	2042	1063	13.737	1.2785
CI-EML2-870-19	19	1294	2155	1122	14.500	1.2785
CI-EML2-870-20	20	1360	2269	1181	15.264	1.2785
CI-EML2-870-21	21	1427	2382	1240	16.027	1.2785
CI-EML2-870-22	22	1493	2496	1299	16.790	1.2785
CI-EML2-870-23	23	1560	2609	1358	17.553	1.2785
CI-EML2-870-24	24	1626	2723	1417	18.316	1.2785
CI-EML2-870-25	25	1693	2836	1476	19.080	1.2785
CI-EML2-870-26	26	1759	2949	1535	19.843	1.2785
CI-EML2-870-27	27	1826	3063	1594	20.606	1.2785
CI-EML2-870-28	28	1892	3176	1653	21.369	1.2785
CI-EML2-870-29	29	1959	3290	1712	22.132	1.2785
CI-EML2-870-30	30	2025	3403	1771	22.895	1.2785
CI-EML2-870-31	31	2092	3517	1830	23.659	1.2785
CI-EML2-870-32	32	2158	3630	1889	24.422	1.2785
CI-EML2-870-33	33	2225	3743	1948	25.185	1.2785
CI-EML2-870-34	34	2291	3857	2007	25.948	1.2785
CI-EML2-870-35	35	2358	3970	2066	26.711	1.2785
CI-EML2-870-36	36	2424	4084	2125	27.474	1.2785
CI-EML2-870-37	37	2491	4197	2184	28.238	1.2785
CI-EML2-870-38	38	2557	4311	2243	29.001	1.2785
CI-EML2-870-39	39	2624	4424	2302	29.764	1.2785
CI-EML2-870-40	40	2690	4538	2361	30.527	1.2785