



Castrads®

Declaration of Performance

No. 202309-1089

Emmeline III 870mm

Unique product code:	CI-EML3-870
Type, batch or serial number:	CI-EML3-870
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Limited 1 Kenwood Road Stockport, SK5 6PH United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	BSRIA Limited Old Bracknell Lane West Bracknell Berkshire, RG12 7AH United Kingdom
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 × maximum operating pressure [kPa]	
Surface temperature	Maximum 120 °C	
Resistance to pressure	No breakage at 1.69 × maximum operating pressure [kPa]	EN 442-1:2014
Rated thermal outputs	Maximum operating pressure: 1000 [kPa]	
Thermal output in different operating conditions (characteristic curve)	See appendix 1	
Resistance against corrosion:	$\phi = K_m \cdot \Delta T^n$. See appendix for factor K_m and exponent n	
Resistance against minor impact:	No corrosion after 100h humidity	
	Class 0	

Signed for and on behalf of the manufacturer by:

Nick Baylis
CEO
Stockport, England
28th June 2025

Appendix to DOP No. 202309-1089: Dimensions and thermal outputs

Panel dimensions: 870mm high when floor standing, 230mm deep for all numbers of sections. See table for length.

SKU	Number of sections	Length, mm	Output (Watts, $\Delta T50$)	Output (Watts, $\Delta T30$)	Factor, Km	Exponent, n
CI-EML3-870-03	3	230	443	228	2.813	1.293
CI-EML3-870-04	4	296	590	304	3.750	1.293
CI-EML3-870-05	5	363	738	380	4.688	1.293
CI-EML3-870-06	6	429	885	456	5.626	1.293
CI-EML3-870-07	7	496	1033	532	6.563	1.293
CI-EML3-870-08	8	562	1180	608	7.501	1.293
CI-EML3-870-09	9	629	1328	684	8.438	1.293
CI-EML3-870-10	10	695	1475	760	9.376	1.293
CI-EML3-870-11	11	762	1623	836	10.314	1.293
CI-EML3-870-12	12	828	1770	912	11.251	1.293
CI-EML3-870-13	13	895	1918	988	12.189	1.293
CI-EML3-870-14	14	961	2065	1064	13.126	1.293
CI-EML3-870-15	15	1028	2213	1140	14.064	1.293
CI-EML3-870-16	16	1094	2360	1216	15.002	1.293
CI-EML3-870-17	17	1161	2508	1292	15.939	1.293
CI-EML3-870-18	18	1227	2655	1368	16.877	1.293
CI-EML3-870-19	19	1294	2803	1444	17.814	1.293
CI-EML3-870-20	20	1360	2950	1520	18.752	1.293
CI-EML3-870-21	21	1427	3098	1596	19.690	1.293
CI-EML3-870-22	22	1493	3245	1672	20.627	1.293
CI-EML3-870-23	23	1560	3393	1748	21.565	1.293
CI-EML3-870-24	24	1626	3540	1824	22.502	1.293
CI-EML3-870-25	25	1693	3688	1900	23.440	1.293
CI-EML3-870-26	26	1759	3835	1976	24.378	1.293
CI-EML3-870-27	27	1826	3983	2052	25.315	1.293
CI-EML3-870-28	28	1892	4130	2128	26.253	1.293
CI-EML3-870-29	29	1959	4278	2204	27.190	1.293
CI-EML3-870-30	30	2025	4425	2280	28.128	1.293
CI-EML3-870-31	31	2092	4573	2356	29.066	1.293
CI-EML3-870-32	32	2158	4720	2432	30.003	1.293
CI-EML3-870-33	33	2225	4868	2508	30.941	1.293
CI-EML3-870-34	34	2291	5015	2584	31.878	1.293
CI-EML3-870-35	35	2358	5163	2660	32.816	1.293
CI-EML3-870-36	36	2424	5310	2736	33.754	1.293
CI-EML3-870-37	37	2491	5458	2812	34.691	1.293
CI-EML3-870-38	38	2557	5605	2888	35.629	1.293
CI-EML3-870-39	39	2624	5753	2964	36.566	1.293
CI-EML3-870-40	40	2690	5900	3040	37.504	1.293