



Castrads®

Declaration of Performance

No. 202209-1084

Emmeline II 470mm

Unique product code:	CI-EML2-470
Type, batch or serial number:	CI-EML2-470
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. 202209-1084: Dimensions and thermal outputs

Panel dimensions: 470mm high when floor standing, 170mm 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-EML2-470-03	3	230	183	96	1.250	1.2742
CI-EML2-470-04	4	296	244	128	1.666	1.2742
CI-EML2-470-05	5	363	305	160	2.083	1.2742
CI-EML2-470-06	6	429	365	192	2.499	1.2742
CI-EML2-470-07	7	496	426	224	2.916	1.2742
CI-EML2-470-08	8	562	487	256	3.332	1.2742
CI-EML2-470-09	9	629	548	288	3.749	1.2742
CI-EML2-470-10	10	695	609	320	4.166	1.2742
CI-EML2-470-11	11	762	670	352	4.582	1.2742
CI-EML2-470-12	12	828	731	384	4.999	1.2742
CI-EML2-470-13	13	895	792	416	5.415	1.2742
CI-EML2-470-14	14	961	853	448	5.832	1.2742
CI-EML2-470-15	15	1028	914	480	6.248	1.2742
CI-EML2-470-16	16	1094	974	512	6.665	1.2742
CI-EML2-470-17	17	1161	1035	544	7.082	1.2742
CI-EML2-470-18	18	1227	1096	576	7.498	1.2742
CI-EML2-470-19	19	1294	1157	608	7.915	1.2742
CI-EML2-470-20	20	1360	1218	640	8.331	1.2742
CI-EML2-470-21	21	1427	1279	672	8.748	1.2742
CI-EML2-470-22	22	1493	1340	704	9.164	1.2742
CI-EML2-470-23	23	1560	1401	736	9.581	1.2742
CI-EML2-470-24	24	1626	1462	768	9.997	1.2742
CI-EML2-470-25	25	1693	1523	800	10.414	1.2742
CI-EML2-470-26	26	1759	1583	832	10.831	1.2742
CI-EML2-470-27	27	1826	1644	864	11.247	1.2742
CI-EML2-470-28	28	1892	1705	896	11.664	1.2742
CI-EML2-470-29	29	1959	1766	928	12.080	1.2742
CI-EML2-470-30	30	2025	1827	960	12.497	1.2742
CI-EML2-470-31	31	2092	1888	992	12.913	1.2742
CI-EML2-470-32	32	2158	1949	1024	13.330	1.2742
CI-EML2-470-33	33	2225	2010	1056	13.746	1.2742
CI-EML2-470-34	34	2291	2071	1088	14.163	1.2742
CI-EML2-470-35	35	2358	2132	1120	14.580	1.2742
CI-EML2-470-36	36	2424	2192	1152	14.996	1.2742
CI-EML2-470-37	37	2491	2253	1184	15.413	1.2742
CI-EML2-470-38	38	2557	2314	1216	15.829	1.2742
CI-EML2-470-39	39	2624	2375	1248	16.246	1.2742
CI-EML2-470-40	40	2690	2436	1280	16.662	1.2742