

Castrads®

Declaration of Performance

No. 202309-1088-US

Emmeline III 26in

Unique product code:	CI-EML3-670
Type, batch or serial number:	CI-EML3-670
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Ltd 1 Kenwood Road North Reddish SK5 6PH, Manchester, United Kingdom
Test standard:	EN 442-1:2014
Test laboratory:	BSRIA
Test report number:	104331/2

Declared performance

Essential characteristics	Performance	Reference standard
Reaction to fire	A1 — non-combustible	
Release of dangerous substances	None	
Pressure tightness	No leakage at 1.3 × maximum working pressure (psi)	
Surface temperature	Maximum 248 °F	
Resistance to pressure	No breakage at 1.69 × maximum working pressure (psi) Maximum working pressure: 145 psi	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	

Performance values are derived from testing to EN 442-1:2014 and are presented here in US customary units for the North American market. This document is a statement of manufacturer performance data; it is not issued under, and does not imply conformity with, any US regulatory or certification scheme.

Signed for and on behalf of the manufacturer by:

Nick Baylis
CEO
Syosset, England
27th August 2026





Appendix to DoP No. 202309-1088-US: Dimensions and thermal outputs

Panel dimensions: 26.4 in (670 mm) high when floor standing, 9.1 in (230 mm) deep, for all numbers of sections. See table for length.

SKU	Num of sec.	Length, in	Output (Hydronic, 170°F)	Output (Steam, 215°F)	EDR	Factor, Km	Exponent, n
CI-EML3-670-03	3	9.1	1,350	2,163	8.9	2.176	1.2889
CI-EML3-670-04	4	11.7	1,801	2,884	11.8	2.901	1.2889
CI-EML3-670-05	5	14.3	2,251	3,605	14.8	3.626	1.2889
CI-EML3-670-06	6	16.9	2,701	4,326	17.7	4.351	1.2889
CI-EML3-670-07	7	19.5	3,151	5,047	20.7	5.076	1.2889
CI-EML3-670-08	8	22.1	3,601	5,768	23.6	5.802	1.2889
CI-EML3-670-09	9	24.8	4,051	6,489	26.6	6.527	1.2889
CI-EML3-670-10	10	27.4	4,501	7,210	29.5	7.252	1.2889
CI-EML3-670-11	11	30	4,951	7,931	32.5	7.977	1.2889
CI-EML3-670-12	12	32.6	5,402	8,652	35.4	8.702	1.2889
CI-EML3-670-13	13	35.2	5,852	9,373	38.4	9.427	1.2889
CI-EML3-670-14	14	37.8	6,302	10,093	41.3	10.153	1.2889
CI-EML3-670-15	15	40.5	6,752	10,814	44.3	10.878	1.2889
CI-EML3-670-16	16	43.1	7,202	11,535	47.2	11.603	1.2889
CI-EML3-670-17	17	45.7	7,652	12,256	50.2	12.328	1.2889
CI-EML3-670-18	18	48.3	8,102	12,977	53.1	13.053	1.2889
CI-EML3-670-19	19	50.9	8,553	13,698	56.1	13.779	1.2889
CI-EML3-670-20	20	53.5	9,003	14,419	59.0	14.504	1.2889
CI-EML3-670-21	21	56.2	9,453	15,140	62.0	15.229	1.2889
CI-EML3-670-22	22	58.8	9,903	15,861	64.9	15.954	1.2889
CI-EML3-670-23	23	61.4	10,353	16,582	67.9	16.679	1.2889
CI-EML3-670-24	24	64	10,803	17,303	70.8	17.405	1.2889
CI-EML3-670-25	25	66.7	11,253	18,024	73.8	18.130	1.2889
CI-EML3-670-26	26	69.3	11,704	18,745	76.7	18.855	1.2889
CI-EML3-670-27	27	71.9	12,154	19,466	79.7	19.580	1.2889
CI-EML3-670-28	28	74.5	12,604	20,187	82.6	20.305	1.2889
CI-EML3-670-29	29	77.1	13,054	20,908	85.6	21.031	1.2889
CI-EML3-670-30	30	79.7	13,504	21,629	88.5	21.756	1.2889
CI-EML3-670-31	31	82.4	13,954	22,350	91.5	22.481	1.2889
CI-EML3-670-32	32	85	14,404	23,071	94.4	23.206	1.2889
CI-EML3-670-33	33	87.6	14,854	23,792	97.4	23.931	1.2889
CI-EML3-670-34	34	90.2	15,305	24,513	100.3	24.656	1.2889
CI-EML3-670-35	35	92.8	15,755	25,234	103.3	25.382	1.2889
CI-EML3-670-36	36	95.4	16,205	25,955	106.3	26.107	1.2889
CI-EML3-670-37	37	98.1	16,655	26,676	109.2	26.832	1.2889
CI-EML3-670-38	38	100.7	17,105	27,397	112.2	27.557	1.2889
CI-EML3-670-39	39	103.3	17,555	28,118	115.1	28.282	1.2889
CI-EML3-670-40	40	105.9	18,005	28,839	118.1	29.008	1.2889

Output (Hydronic, 170°F): BTU/h at 170°F mean water, 68°F room. **Output (Steam, 215°F):** BTU/h at 215°F steam, 68°F room. **EDR:** square feet of Equivalent Direct Radiation at the reference condition (215°F steam, 70°F room; 1 sq ft = 240 BTU/h). Outputs are derived from the EN 442-1 power law $\phi = Km \times \Delta T^n$ (ΔT = mean water – room, °C); BTU/h rounded to whole numbers, EDR to one decimal place.