Declaration of Performance

No. 202009-1100-US

Mercury 3 Column 34in

Unique product code:	CI-M3C-860
Type, batch or serial number:	CI-M3C-860
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:	61431

Declared performance

Essential characteristics	Performance	Reference standard
Reaction to fire	A1 — non-combustible	EN 442-1:2014
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	
Rated thermal outputs	See appendix 1	
Thermal output in different operating conditions (characteristic curve)	$\varphi = Km \cdot \Delta T^{n}$. See appendix for factor Km 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 November 2026



Castrads®

Appendix to DoP No. 202009-1100-US: Dimensions and thermal outputs

Panel dimensions: 33.9 in (860 mm) high when floor standing, 4 in (101 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-M3C-860-03	3	8.1	1,052	1,694	6.9	1.608	1.3020
CI-M3C-860-04	4	10.4	1,403	2,258	9.2	2.144	1.3020
CI-M3C-860-05	5	12.7	1,754	2,823	11.6	2.680	1.3020
CI-M3C-860-06	6	15	2,105	3,387	13.9	3.216	1.3020
CI-M3C-860-07	7	17.2	2,455	3,952	16.2	3.752	1.3020
CI-M3C-860-08	8	19.5	2,806	4,516	18.5	4.288	1.3020
CI-M3C-860-09	9	21.9	3,157	5,081	20.8	4.824	1.3020
CI-M3C-860-10	10	24.1	3,508	5,645	23.1	5.360	1.3020
CI-M3C-860-11	11	26.4	3,859	6,210	25.4	5.896	1.3020
CI-M3C-860-12	12	28.7	4,209	6,774	27.7	6.432	1.3020
CI-M3C-860-13	13	31	4,560	7,339	30.0	6.968	1.3020
CI-M3C-860-14	14	33.3	4,911	7,903	32.3	7.504	1.3020
CI-M3C-860-15	15	35.6	5,262	8,468	34.7	8.040	1.3020
CI-M3C-860-16	16	37.9	5,612	9,032	37.0	8.576	1.3020
CI-M3C-860-17	17	40.2	5,963	9,597	39.3	9.112	1.3020
CI-M3C-860-18	18	42.5	6,314	10,161	41.6	9.648	1.3020
CI-M3C-860-19	19	44.8	6,665	10,726	43.9	10.184	1.3020
CI-M3C-860-20	20	47.1	7,016	11,291	46.2	10.720	1.3020
CI-M3C-860-21	21	49.4	7,366	11,855	48.5	11.256	1.3020
CI-M3C-860-22	22	51.7	7,717	12,420	50.8	11.792	1.3020
CI-M3C-860-23	23	54	8,068	12,984	53.1	12.328	1.3020
CI-M3C-860-24	24	56.3	8,419	13,549	55.5	12.864	1.3020
CI-M3C-860-25	25	58.6	8,769	14,113	57.8	13.400	1.3020
CI-M3C-860-26	26	60.9	9,120	14,678	60.1	13.936	1.3020
CI-M3C-860-27	27	63.1	9,471	15,242	62.4	14.472	1.3020
CI-M3C-860-28	28	65.4	9,822	15,807	64.7	15.008	1.3020
CI-M3C-860-29	29	67.8	10,173	16,371	67.0	15.544	1.3020
CI-M3C-860-30	30	70	10,523	16,936	69.3	16.080	1.3020
CI-M3C-860-31	31	72.3	10,874	17,500	71.6	16.616	1.3020
CI-M3C-860-32	32	74.6	11,225	18,065	73.9	17.152	1.3020
CI-M3C-860-33	33	76.9	11,576	18,629	76.3	17.688	1.3020
CI-M3C-860-34	34	79.2	11,927	19,194	78.6	18.224	1.3020
CI-M3C-860-35	35	81.5	12,277	19,758	80.9	18.760	1.3020
CI-M3C-860-36	36	83.8	12,628	20,323	83.2	19.296	1.3020
CI-M3C-860-37	37	86.1	12,979	20,887	85.5	19.832	1.3020
CI-M3C-860-38	38	88.4	13,330	21,452	87.8	20.368	1.3020
CI-M3C-860-39	39	90.7	13,680	22,017	90.1	20.905	1.3020
CI-M3C-860-40	40	93	14,031	22,581	92.4	21.441	1.3020

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 $\varphi = Km \times \Delta T^{n}$ (ΔT = mean water − room, °C); BTU/h rounded to whole numbers, EDR to one decimal place.