

Castrads®

Declaration of Performance

No. 202009-1095-US

Mercury 2 Column 30in

Unique product code:	CI-M2C-760
Type, batch or serial number:	CI-M2C-760
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:	101534

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
26th August 2026





Appendix to DoP No. 202009-1095-US: Dimensions and thermal outputs

Panel dimensions: 29.9 in (760 mm) high when floor standing, 2.8 in (70 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-M2C-760-03	3	8.1	703	1,117	4.6	1.238	1.2669
CI-M2C-760-04	4	10.4	938	1,490	6.1	1.651	1.2669
CI-M2C-760-05	5	12.7	1,172	1,862	7.6	2.064	1.2669
CI-M2C-760-06	6	15	1,406	2,235	9.2	2.476	1.2669
CI-M2C-760-07	7	17.2	1,641	2,607	10.7	2.889	1.2669
CI-M2C-760-08	8	19.5	1,875	2,979	12.2	3.302	1.2669
CI-M2C-760-09	9	21.9	2,110	3,352	13.7	3.714	1.2669
CI-M2C-760-10	10	24.1	2,344	3,724	15.3	4.127	1.2669
CI-M2C-760-11	11	26.4	2,578	4,097	16.8	4.540	1.2669
CI-M2C-760-12	12	28.7	2,813	4,469	18.3	4.952	1.2669
CI-M2C-760-13	13	31	3,047	4,841	19.8	5.365	1.2669
CI-M2C-760-14	14	33.3	3,282	5,214	21.4	5.778	1.2669
CI-M2C-760-15	15	35.6	3,516	5,586	22.9	6.191	1.2669
CI-M2C-760-16	16	37.9	3,750	5,959	24.4	6.603	1.2669
CI-M2C-760-17	17	40.2	3,985	6,331	25.9	7.016	1.2669
CI-M2C-760-18	18	42.5	4,219	6,704	27.5	7.429	1.2669
CI-M2C-760-19	19	44.8	4,454	7,076	29.0	7.841	1.2669
CI-M2C-760-20	20	47.1	4,688	7,448	30.5	8.254	1.2669
CI-M2C-760-21	21	49.4	4,922	7,821	32.0	8.667	1.2669
CI-M2C-760-22	22	51.7	5,157	8,193	33.6	9.079	1.2669
CI-M2C-760-23	23	54	5,391	8,566	35.1	9.492	1.2669
CI-M2C-760-24	24	56.3	5,626	8,938	36.6	9.905	1.2669
CI-M2C-760-25	25	58.6	5,860	9,310	38.1	10.318	1.2669
CI-M2C-760-26	26	60.9	6,094	9,683	39.7	10.730	1.2669
CI-M2C-760-27	27	63.1	6,329	10,055	41.2	11.143	1.2669
CI-M2C-760-28	28	65.4	6,563	10,428	42.7	11.556	1.2669
CI-M2C-760-29	29	67.8	6,798	10,800	44.2	11.968	1.2669
CI-M2C-760-30	30	70	7,032	11,173	45.8	12.381	1.2669
CI-M2C-760-31	31	72.3	7,266	11,545	47.3	12.794	1.2669
CI-M2C-760-32	32	74.6	7,501	11,917	48.8	13.206	1.2669
CI-M2C-760-33	33	76.9	7,735	12,290	50.3	13.619	1.2669
CI-M2C-760-34	34	79.2	7,969	12,662	51.9	14.032	1.2669
CI-M2C-760-35	35	81.5	8,204	13,035	53.4	14.445	1.2669
CI-M2C-760-36	36	83.8	8,438	13,407	54.9	14.857	1.2669
CI-M2C-760-37	37	86.1	8,673	13,779	56.4	15.270	1.2669
CI-M2C-760-38	38	88.4	8,907	14,152	58.0	15.683	1.2669
CI-M2C-760-39	39	90.7	9,141	14,524	59.5	16.095	1.2669
CI-M2C-760-40	40	93	9,376	14,897	61.0	16.508	1.2669

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.