

Castrads®

Declaration of Performance

No. 202009-1096-US

Mercury 2 Column 38in

Unique product code:	CI-M2C-960
Type, batch or serial number:	CI-M2C-960
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	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)	$\phi = K_m \cdot \Delta T^n$. 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. 202009-1096-US: Dimensions and thermal outputs

Panel dimensions: 37.8 in (960 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-960-03	3	8.1	887	1,426	5.8	1.371	1.2991
CI-M2C-960-04	4	10.4	1,182	1,901	7.8	1.828	1.2991
CI-M2C-960-05	5	12.7	1,478	2,376	9.7	2.285	1.2991
CI-M2C-960-06	6	15	1,773	2,851	11.7	2.742	1.2991
CI-M2C-960-07	7	17.2	2,069	3,326	13.6	3.199	1.2991
CI-M2C-960-08	8	19.5	2,365	3,801	15.6	3.656	1.2991
CI-M2C-960-09	9	21.9	2,660	4,277	17.5	4.113	1.2991
CI-M2C-960-10	10	24.1	2,956	4,752	19.5	4.570	1.2991
CI-M2C-960-11	11	26.4	3,251	5,227	21.4	5.027	1.2991
CI-M2C-960-12	12	28.7	3,547	5,702	23.3	5.484	1.2991
CI-M2C-960-13	13	31	3,843	6,177	25.3	5.941	1.2991
CI-M2C-960-14	14	33.3	4,138	6,653	27.2	6.398	1.2991
CI-M2C-960-15	15	35.6	4,434	7,128	29.2	6.855	1.2991
CI-M2C-960-16	16	37.9	4,729	7,603	31.1	7.312	1.2991
CI-M2C-960-17	17	40.2	5,025	8,078	33.1	7.769	1.2991
CI-M2C-960-18	18	42.5	5,320	8,553	35.0	8.226	1.2991
CI-M2C-960-19	19	44.8	5,616	9,028	37.0	8.683	1.2991
CI-M2C-960-20	20	47.1	5,912	9,504	38.9	9.140	1.2991
CI-M2C-960-21	21	49.4	6,207	9,979	40.8	9.597	1.2991
CI-M2C-960-22	22	51.7	6,503	10,454	42.8	10.054	1.2991
CI-M2C-960-23	23	54	6,798	10,929	44.7	10.511	1.2991
CI-M2C-960-24	24	56.3	7,094	11,404	46.7	10.968	1.2991
CI-M2C-960-25	25	58.6	7,389	11,880	48.6	11.425	1.2991
CI-M2C-960-26	26	60.9	7,685	12,355	50.6	11.881	1.2991
CI-M2C-960-27	27	63.1	7,981	12,830	52.5	12.338	1.2991
CI-M2C-960-28	28	65.4	8,276	13,305	54.5	12.795	1.2991
CI-M2C-960-29	29	67.8	8,572	13,780	56.4	13.252	1.2991
CI-M2C-960-30	30	70	8,867	14,256	58.4	13.709	1.2991
CI-M2C-960-31	31	72.3	9,163	14,731	60.3	14.166	1.2991
CI-M2C-960-32	32	74.6	9,458	15,206	62.2	14.623	1.2991
CI-M2C-960-33	33	76.9	9,754	15,681	64.2	15.080	1.2991
CI-M2C-960-34	34	79.2	10,050	16,156	66.1	15.537	1.2991
CI-M2C-960-35	35	81.5	10,345	16,631	68.1	15.994	1.2991
CI-M2C-960-36	36	83.8	10,641	17,107	70.0	16.451	1.2991
CI-M2C-960-37	37	86.1	10,936	17,582	72.0	16.908	1.2991
CI-M2C-960-38	38	88.4	11,232	18,057	73.9	17.365	1.2991
CI-M2C-960-39	39	90.7	11,528	18,532	75.9	17.822	1.2991
CI-M2C-960-40	40	93	11,823	19,007	77.8	18.279	1.2991

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.