Declaration of Performance

No. 202009-1106-US

Mercury 4 Column 38in

Unique product code:	CI-M4C-960
Type, batch or serial number:	CI-M4C-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:	104331/1

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 August 2026

Castrads®

Appendix to DoP No. 202009-1106-US: Dimensions and thermal outputs

Panel dimensions: 37.8 in (960 mm) high when floor standing, 5.5 in (140 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-M4C-960-03	3	8.1	1,471	2,366	9.7	2.258	1.3009
CI-M4C-960-04	4	10.4	1,961	3,155	12.9	3.010	1.3009
CI-M4C-960-05	5	12.7	2,452	3,944	16.1	3.763	1.3009
CI-M4C-960-06	6	15	2,942	4,733	19.4	4.516	1.3009
CI-M4C-960-07	7	17.2	3,432	5,522	22.6	5.268	1.3009
CI-M4C-960-08	8	19.5	3,923	6,310	25.8	6.021	1.3009
CI-M4C-960-09	9	21.9	4,413	7,099	29.1	6.773	1.3009
CI-M4C-960-10	10	24.1	4,903	7,888	32.3	7.526	1.3009
CI-M4C-960-11	11	26.4	5,394	8,677	35.5	8.279	1.3009
CI-M4C-960-12	12	28.7	5,884	9,466	38.7	9.031	1.3009
CI-M4C-960-13	13	31	6,374	10,254	42.0	9.784	1.3009
CI-M4C-960-14	14	33.3	6,865	11,043	45.2	10.536	1.3009
CI-M4C-960-15	15	35.6	7,355	11,832	48.4	11.289	1.3009
CI-M4C-960-16	16	37.9	7,845	12,621	51.7	12.042	1.3009
CI-M4C-960-17	17	40.2	8,336	13,410	54.9	12.794	1.3009
CI-M4C-960-18	18	42.5	8,826	14,199	58.1	13.547	1.3009
CI-M4C-960-19	19	44.8	9,316	14,987	61.3	14.299	1.3009
CI-M4C-960-20	20	47.1	9,807	15,776	64.6	15.052	1.3009
CI-M4C-960-21	21	49.4	10,297	16,565	67.8	15.805	1.3009
CI-M4C-960-22	22	51.7	10,787	17,354	71.0	16.557	1.3009
CI-M4C-960-23	23	54	11,278	18,143	74.3	17.310	1.3009
CI-M4C-960-24	24	56.3	11,768	18,931	77.5	18.062	1.3009
CI-M4C-960-25	25	58.6	12,258	19,720	80.7	18.815	1.3009
CI-M4C-960-26	26	60.9	12,749	20,509	83.9	19.568	1.3009
CI-M4C-960-27	27	63.1	13,239	21,298	87.2	20.320	1.3009
CI-M4C-960-28	28	65.4	13,729	22,087	90.4	21.073	1.3009
CI-M4C-960-29	29	67.8	14,220	22,875	93.6	21.825	1.3009
CI-M4C-960-30	30	70	14,710	23,664	96.9	22.578	1.3009
CI-M4C-960-31	31	72.3	15,200	24,453	100.1	23.331	1.3009
CI-M4C-960-32	32	74.6	15,691	25,242	103.3	24.083	1.3009
CI-M4C-960-33	33	76.9	16,181	26,031	106.5	24.836	1.3009
CI-M4C-960-34	34	79.2	16,671	26,819	109.8	25.588	1.3009
CI-M4C-960-35	35	81.5	17,162	27,608	113.0	26.341	1.3009
CI-M4C-960-36	36	83.8	17,652	28,397	116.2	27.094	1.3009
CI-M4C-960-37	37	86.1	18,142	29,186	119.5	27.846	1.3009
CI-M4C-960-38	38	88.4	18,633	29,975	122.7	28.599	1.3009
CI-M4C-960-39	39	90.7	19,123	30,763	125.9	29.351	1.3009
CI-M4C-960-40	40	93	19,613	31,552	129.1	30.104	1.3009

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.