

Castrads®

Declaration of Performance

No. 202009-1104-US

Mercury 4 Column 30in

Unique product code:	CI-M4C-760
Type, batch or serial number:	CI-M4C-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:	61431

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. 202009-1104-US: Dimensions and thermal outputs

Panel dimensions: 29.9 in (760 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-760-03	3	8.1	1,149	1,813	7.4	2.195	1.2468
CI-M4C-760-04	4	10.4	1,532	2,417	9.9	2.926	1.2468
CI-M4C-760-05	5	12.7	1,915	3,021	12.4	3.658	1.2468
CI-M4C-760-06	6	15	2,298	3,625	14.8	4.389	1.2468
CI-M4C-760-07	7	17.2	2,682	4,229	17.3	5.121	1.2468
CI-M4C-760-08	8	19.5	3,065	4,834	19.8	5.852	1.2468
CI-M4C-760-09	9	21.9	3,448	5,438	22.3	6.584	1.2468
CI-M4C-760-10	10	24.1	3,831	6,042	24.7	7.315	1.2468
CI-M4C-760-11	11	26.4	4,214	6,646	27.2	8.047	1.2468
CI-M4C-760-12	12	28.7	4,597	7,250	29.7	8.778	1.2468
CI-M4C-760-13	13	31	4,980	7,855	32.2	9.510	1.2468
CI-M4C-760-14	14	33.3	5,363	8,459	34.6	10.241	1.2468
CI-M4C-760-15	15	35.6	5,746	9,063	37.1	10.973	1.2468
CI-M4C-760-16	16	37.9	6,129	9,667	39.6	11.704	1.2468
CI-M4C-760-17	17	40.2	6,512	10,271	42.1	12.436	1.2468
CI-M4C-760-18	18	42.5	6,895	10,876	44.5	13.167	1.2468
CI-M4C-760-19	19	44.8	7,279	11,480	47.0	13.899	1.2468
CI-M4C-760-20	20	47.1	7,662	12,084	49.5	14.630	1.2468
CI-M4C-760-21	21	49.4	8,045	12,688	52.0	15.362	1.2468
CI-M4C-760-22	22	51.7	8,428	13,292	54.4	16.093	1.2468
CI-M4C-760-23	23	54	8,811	13,897	56.9	16.825	1.2468
CI-M4C-760-24	24	56.3	9,194	14,501	59.4	17.556	1.2468
CI-M4C-760-25	25	58.6	9,577	15,105	61.9	18.288	1.2468
CI-M4C-760-26	26	60.9	9,960	15,709	64.3	19.019	1.2468
CI-M4C-760-27	27	63.1	10,343	16,313	66.8	19.751	1.2468
CI-M4C-760-28	28	65.4	10,726	16,918	69.3	20.482	1.2468
CI-M4C-760-29	29	67.8	11,109	17,522	71.8	21.214	1.2468
CI-M4C-760-30	30	70	11,492	18,126	74.2	21.945	1.2468
CI-M4C-760-31	31	72.3	11,875	18,730	76.7	22.677	1.2468
CI-M4C-760-32	32	74.6	12,259	19,334	79.2	23.408	1.2468
CI-M4C-760-33	33	76.9	12,642	19,939	81.7	24.140	1.2468
CI-M4C-760-34	34	79.2	13,025	20,543	84.1	24.871	1.2468
CI-M4C-760-35	35	81.5	13,408	21,147	86.6	25.603	1.2468
CI-M4C-760-36	36	83.8	13,791	21,751	89.1	26.334	1.2468
CI-M4C-760-37	37	86.1	14,174	22,355	91.6	27.066	1.2468
CI-M4C-760-38	38	88.4	14,557	22,959	94.0	27.797	1.2468
CI-M4C-760-39	39	90.7	14,940	23,564	96.5	28.529	1.2468
CI-M4C-760-40	40	93	15,323	24,168	99.0	29.260	1.2468

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.