Declaration of Performance

No. 202009-1103-US

Mercury 4 Column 22in

Unique product code:	CI-M4C-560
Type, batch or serial number:	CI-M4C-560
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:	101885/3

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
8th October 2026

Castrads®

Appendix to DoP No. 202009-1103-US: Dimensions and thermal outputs

Panel dimensions: 22 in (560 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-560-03	3	8.1	844	1,321	5.4	1.750	1.2263
CI-M4C-560-04	4	10.4	1,125	1,761	7.2	2.333	1.2263
CI-M4C-560-05	5	12.7	1,406	2,201	9.0	2.917	1.2263
CI-M4C-560-06	6	15	1,687	2,641	10.8	3.500	1.2263
CI-M4C-560-07	7	17.2	1,968	3,081	12.6	4.083	1.2263
CI-M4C-560-08	8	19.5	2,250	3,522	14.4	4.666	1.2263
CI-M4C-560-09	9	21.9	2,531	3,962	16.2	5.250	1.2263
CI-M4C-560-10	10	24.1	2,812	4,402	18.0	5.833	1.2263
CI-M4C-560-11	11	26.4	3,093	4,842	19.8	6.416	1.2263
CI-M4C-560-12	12	28.7	3,374	5,283	21.6	7.000	1.2263
CI-M4C-560-13	13	31	3,656	5,723	23.4	7.583	1.2263
CI-M4C-560-14	14	33.3	3,937	6,163	25.3	8.166	1.2263
CI-M4C-560-15	15	35.6	4,218	6,603	27.1	8.750	1.2263
CI-M4C-560-16	16	37.9	4,499	7,043	28.9	9.333	1.2263
CI-M4C-560-17	17	40.2	4,781	7,484	30.7	9.916	1.2263
CI-M4C-560-18	18	42.5	5,062	7,924	32.5	10.499	1.2263
CI-M4C-560-19	19	44.8	5,343	8,364	34.3	11.083	1.2263
CI-M4C-560-20	20	47.1	5,624	8,804	36.1	11.666	1.2263
CI-M4C-560-21	21	49.4	5,905	9,244	37.9	12.249	1.2263
CI-M4C-560-22	22	51.7	6,187	9,685	39.7	12.833	1.2263
CI-M4C-560-23	23	54	6,468	10,125	41.5	13.416	1.2263
CI-M4C-560-24	24	56.3	6,749	10,565	43.3	13.999	1.2263
CI-M4C-560-25	25	58.6	7,030	11,005	45.1	14.583	1.2263
CI-M4C-560-26	26	60.9	7,311	11,445	46.9	15.166	1.2263
CI-M4C-560-27	27	63.1	7,593	11,886	48.7	15.749	1.2263
CI-M4C-560-28	28	65.4	7,874	12,326	50.5	16.332	1.2263
CI-M4C-560-29	29	67.8	8,155	12,766	52.3	16.916	1.2263
CI-M4C-560-30	30	70	8,436	13,206	54.1	17.499	1.2263
CI-M4C-560-31	31	72.3	8,717	13,646	55.9	18.082	1.2263
CI-M4C-560-32	32	74.6	8,999	14,087	57.7	18.666	1.2263
CI-M4C-560-33	33	76.9	9,280	14,527	59.5	19.249	1.2263
CI-M4C-560-34	34	79.2	9,561	14,967	61.3	19.832	1.2263
CI-M4C-560-35	35	81.5	9,842	15,407	63.1	20.416	1.2263
CI-M4C-560-36	36	83.8	10,123	15,848	64.9	20.999	1.2263
CI-M4C-560-37	37	86.1	10,405	16,288	66.7	21.582	1.2263
CI-M4C-560-38	38	88.4	10,686	16,728	68.5	22.165	1.2263
CI-M4C-560-39	39	90.7	10,967	17,168	70.3	22.749	1.2263
CI-M4C-560-40	40	93	11,248	17,608	72.1	23.332	1.2263

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.