

Castrads®

Declaration of Performance

No. 202009-1101-US

Mercury 4 Column 14in

Unique product code:	CI-M4C-360
Type, batch or serial number:	CI-M4C-360
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:	103146A1PS

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. 202009-1101-US: Dimensions and thermal outputs

Panel dimensions: 14.2 in (360 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-360-03	3	8.1	529	834	3.4	1.018	1.2450
CI-M4C-360-04	4	10.4	706	1,112	4.6	1.357	1.2450
CI-M4C-360-05	5	12.7	882	1,390	5.7	1.697	1.2450
CI-M4C-360-06	6	15	1,058	1,668	6.8	2.036	1.2450
CI-M4C-360-07	7	17.2	1,235	1,946	8.0	2.375	1.2450
CI-M4C-360-08	8	19.5	1,411	2,224	9.1	2.714	1.2450
CI-M4C-360-09	9	21.9	1,588	2,502	10.3	3.054	1.2450
CI-M4C-360-10	10	24.1	1,764	2,780	11.4	3.393	1.2450
CI-M4C-360-11	11	26.4	1,940	3,058	12.5	3.732	1.2450
CI-M4C-360-12	12	28.7	2,117	3,336	13.7	4.072	1.2450
CI-M4C-360-13	13	31	2,293	3,615	14.8	4.411	1.2450
CI-M4C-360-14	14	33.3	2,470	3,893	15.9	4.750	1.2450
CI-M4C-360-15	15	35.6	2,646	4,171	17.1	5.090	1.2450
CI-M4C-360-16	16	37.9	2,822	4,449	18.2	5.429	1.2450
CI-M4C-360-17	17	40.2	2,999	4,727	19.4	5.768	1.2450
CI-M4C-360-18	18	42.5	3,175	5,005	20.5	6.107	1.2450
CI-M4C-360-19	19	44.8	3,352	5,283	21.6	6.447	1.2450
CI-M4C-360-20	20	47.1	3,528	5,561	22.8	6.786	1.2450
CI-M4C-360-21	21	49.4	3,704	5,839	23.9	7.125	1.2450
CI-M4C-360-22	22	51.7	3,881	6,117	25.1	7.465	1.2450
CI-M4C-360-23	23	54	4,057	6,395	26.2	7.804	1.2450
CI-M4C-360-24	24	56.3	4,234	6,673	27.3	8.143	1.2450
CI-M4C-360-25	25	58.6	4,410	6,951	28.5	8.483	1.2450
CI-M4C-360-26	26	60.9	4,586	7,229	29.6	8.822	1.2450
CI-M4C-360-27	27	63.1	4,763	7,507	30.8	9.161	1.2450
CI-M4C-360-28	28	65.4	4,939	7,785	31.9	9.500	1.2450
CI-M4C-360-29	29	67.8	5,116	8,063	33.0	9.840	1.2450
CI-M4C-360-30	30	70	5,292	8,341	34.2	10.179	1.2450
CI-M4C-360-31	31	72.3	5,468	8,619	35.3	10.518	1.2450
CI-M4C-360-32	32	74.6	5,645	8,897	36.4	10.858	1.2450
CI-M4C-360-33	33	76.9	5,821	9,175	37.6	11.197	1.2450
CI-M4C-360-34	34	79.2	5,998	9,453	38.7	11.536	1.2450
CI-M4C-360-35	35	81.5	6,174	9,731	39.9	11.876	1.2450
CI-M4C-360-36	36	83.8	6,350	10,009	41.0	12.215	1.2450
CI-M4C-360-37	37	86.1	6,527	10,287	42.1	12.554	1.2450
CI-M4C-360-38	38	88.4	6,703	10,566	43.3	12.893	1.2450
CI-M4C-360-39	39	90.7	6,880	10,844	44.4	13.233	1.2450
CI-M4C-360-40	40	93	7,056	11,122	45.6	13.572	1.2450

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 $\phi = K_m \times \Delta T^n$ (ΔT = mean water – room, °C); BTU/h rounded to whole numbers, EDR to one decimal place.