Declaration of Performance

No. 202009-1094-US

Mercury 2 Column 18in

Unique product code:	CI-M2C-460
Type, batch or serial number:	CI-M2C-460
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)	$\varphi = Km \cdot \Delta T^{n}$. 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 November 2026



Castrads®

Appendix to DoP No. 202009-1094-US: Dimensions and thermal outputs

Panel dimensions: 18.1 in (460 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-460-03	3	8.1	420	651	2.7	0.965	1.2008
CI-M2C-460-04	4	10.4	560	868	3.6	1.287	1.2008
CI-M2C-460-05	5	12.7	699	1,085	4.4	1.608	1.2008
CI-M2C-460-06	6	15	839	1,302	5.3	1.930	1.2008
CI-M2C-460-07	7	17.2	979	1,519	6.2	2.251	1.2008
CI-M2C-460-08	8	19.5	1,119	1,736	7.1	2.573	1.2008
CI-M2C-460-09	9	21.9	1,259	1,953	8.0	2.895	1.2008
CI-M2C-460-10	10	24.1	1,399	2,170	8.9	3.216	1.2008
CI-M2C-460-11	11	26.4	1,539	2,386	9.8	3.538	1.2008
CI-M2C-460-12	12	28.7	1,679	2,603	10.7	3.860	1.2008
CI-M2C-460-13	13	31	1,819	2,820	11.6	4.181	1.2008
CI-M2C-460-14	14	33.3	1,958	3,037	12.4	4.503	1.2008
CI-M2C-460-15	15	35.6	2,098	3,254	13.3	4.824	1.2008
CI-M2C-460-16	16	37.9	2,238	3,471	14.2	5.146	1.2008
CI-M2C-460-17	17	40.2	2,378	3,688	15.1	5.468	1.2008
CI-M2C-460-18	18	42.5	2,518	3,905	16.0	5.789	1.2008
CI-M2C-460-19	19	44.8	2,658	4,122	16.9	6.111	1.2008
CI-M2C-460-20	20	47.1	2,798	4,339	17.8	6.433	1.2008
CI-M2C-460-21	21	49.4	2,938	4,556	18.7	6.754	1.2008
CI-M2C-460-22	22	51.7	3,078	4,773	19.6	7.076	1.2008
CI-M2C-460-23	23	54	3,217	4,990	20.5	7.397	1.2008
CI-M2C-460-24	24	56.3	3,357	5,207	21.3	7.719	1.2008
CI-M2C-460-25	25	58.6	3,497	5,424	22.2	8.041	1.2008
CI-M2C-460-26	26	60.9	3,637	5,641	23.1	8.362	1.2008
CI-M2C-460-27	27	63.1	3,777	5,858	24.0	8.684	1.2008
CI-M2C-460-28	28	65.4	3,917	6,075	24.9	9.006	1.2008
CI-M2C-460-29	29	67.8	4,057	6,292	25.8	9.327	1.2008
CI-M2C-460-30	30	70	4,197	6,509	26.7	9.649	1.2008
CI-M2C-460-31	31	72.3	4,337	6,726	27.6	9.971	1.2008
CI-M2C-460-32	32	74.6	4,476	6,943	28.5	10.292	1.2008
CI-M2C-460-33	33	76.9	4,616	7,159	29.3	10.614	1.2008
CI-M2C-460-34	34	79.2	4,756	7,376	30.2	10.935	1.2008
CI-M2C-460-35	35	81.5	4,896	7,593	31.1	11.257	1.2008
CI-M2C-460-36	36	83.8	5,036	7,810	32.0	11.579	1.2008
CI-M2C-460-37	37	86.1	5,176	8,027	32.9	11.900	1.2008
CI-M2C-460-38	38	88.4	5,316	8,244	33.8	12.222	1.2008
CI-M2C-460-39	39	90.7	5,456	8,461	34.7	12.544	1.2008
CI-M2C-460-40	40	93	5,596	8,678	35.6	12.865	1.2008

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.