Declaration of Performance

No. 202009-1099-US

Mercury 3 Column 30in

Unique product code:	CI-M3C-760
Type, batch or serial number:	CI-M3C-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	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. 202009-1099-US: Dimensions and thermal outputs

Panel dimensions: 29.9 in (760 mm) high when floor standing, 4 in (101 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-M3C-760-03	3	8.1	934	1,502	6.1	1.431	1.3013
CI-M3C-760-04	4	10.4	1,245	2,003	8.2	1.908	1.3013
CI-M3C-760-05	5	12.7	1,556	2,504	10.2	2.385	1.3013
CI-M3C-760-06	6	15	1,867	3,004	12.3	2.861	1.3013
CI-M3C-760-07	7	17.2	2,178	3,505	14.3	3.338	1.3013
CI-M3C-760-08	8	19.5	2,490	4,006	16.4	3.815	1.3013
CI-M3C-760-09	9	21.9	2,801	4,507	18.4	4.292	1.3013
CI-M3C-760-10	10	24.1	3,112	5,007	20.5	4.769	1.3013
CI-M3C-760-11	11	26.4	3,423	5,508	22.5	5.246	1.3013
CI-M3C-760-12	12	28.7	3,735	6,009	24.6	5.723	1.3013
CI-M3C-760-13	13	31	4,046	6,509	26.6	6.200	1.3013
CI-M3C-760-14	14	33.3	4,357	7,010	28.7	6.677	1.3013
CI-M3C-760-15	15	35.6	4,668	7,511	30.7	7.154	1.3013
CI-M3C-760-16	16	37.9	4,979	8,012	32.8	7.630	1.3013
CI-M3C-760-17	17	40.2	5,291	8,512	34.8	8.107	1.3013
CI-M3C-760-18	18	42.5	5,602	9,013	36.9	8.584	1.3013
CI-M3C-760-19	19	44.8	5,913	9,514	38.9	9.061	1.3013
CI-M3C-760-20	20	47.1	6,224	10,014	41.0	9.538	1.3013
CI-M3C-760-21	21	49.4	6,535	10,515	43.0	10.015	1.3013
CI-M3C-760-22	22	51.7	6,847	11,016	45.1	10.492	1.3013
CI-M3C-760-23	23	54	7,158	11,517	47.1	10.969	1.3013
CI-M3C-760-24	24	56.3	7,469	12,017	49.2	11.446	1.3013
CI-M3C-760-25	25	58.6	7,780	12,518	51.2	11.923	1.3013
CI-M3C-760-26	26	60.9	8,092	13,019	53.3	12.399	1.3013
CI-M3C-760-27	27	63.1	8,403	13,520	55.3	12.876	1.3013
CI-M3C-760-28	28	65.4	8,714	14,020	57.4	13.353	1.3013
CI-M3C-760-29	29	67.8	9,025	14,521	59.4	13.830	1.3013
CI-M3C-760-30	30	70	9,336	15,022	61.5	14.307	1.3013
CI-M3C-760-31	31	72.3	9,648	15,522	63.5	14.784	1.3013
CI-M3C-760-32	32	74.6	9,959	16,023	65.6	15.261	1.3013
CI-M3C-760-33	33	76.9	10,270	16,524	67.6	15.738	1.3013
CI-M3C-760-34	34	79.2	10,581	17,025	69.7	16.215	1.3013
CI-M3C-760-35	35	81.5	10,892	17,525	71.7	16.692	1.3013
CI-M3C-760-36	36	83.8	11,204	18,026	73.8	17.168	1.3013
CI-M3C-760-37	37	86.1	11,515	18,527	75.8	17.645	1.3013
CI-M3C-760-38	38	88.4	11,826	19,027	77.9	18.122	1.3013
CI-M3C-760-39	39	90.7	12,137	19,528	79.9	18.599	1.3013
CI-M3C-760-40	40	93	12,449	20,029	82.0	19.076	1.3013

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.