Declaration of Performance

No. 202009-1098-US

Mercury 3 Column 26in

Unique product code:	CI-M3C-660
Type, batch or serial number:	CI-M3C-660
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
8th October 2026

Castrads®

Appendix to DoP No. 202009-1098-US: Dimensions and thermal outputs

Panel dimensions: 26 in (660 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-660-03	3	8.1	796	1,264	5.2	1.421	1.2636
CI-M3C-660-04	4	10.4	1,062	1,685	6.9	1.895	1.2636
CI-M3C-660-05	5	12.7	1,327	2,107	8.6	2.369	1.2636
CI-M3C-660-06	6	15	1,593	2,528	10.4	2.842	1.2636
CI-M3C-660-07	7	17.2	1,858	2,949	12.1	3.316	1.2636
CI-M3C-660-08	8	19.5	2,124	3,370	13.8	3.790	1.2636
CI-M3C-660-09	9	21.9	2,389	3,792	15.5	4.263	1.2636
CI-M3C-660-10	10	24.1	2,655	4,213	17.3	4.737	1.2636
CI-M3C-660-11	11	26.4	2,920	4,634	19.0	5.211	1.2636
CI-M3C-660-12	12	28.7	3,186	5,056	20.7	5.685	1.2636
CI-M3C-660-13	13	31	3,451	5,477	22.4	6.158	1.2636
CI-M3C-660-14	14	33.3	3,717	5,898	24.2	6.632	1.2636
CI-M3C-660-15	15	35.6	3,982	6,320	25.9	7.106	1.2636
CI-M3C-660-16	16	37.9	4,248	6,741	27.6	7.579	1.2636
CI-M3C-660-17	17	40.2	4,513	7,162	29.3	8.053	1.2636
CI-M3C-660-18	18	42.5	4,779	7,584	31.1	8.527	1.2636
CI-M3C-660-19	19	44.8	5,044	8,005	32.8	9.001	1.2636
CI-M3C-660-20	20	47.1	5,310	8,426	34.5	9.474	1.2636
CI-M3C-660-21	21	49.4	5,575	8,848	36.2	9.948	1.2636
CI-M3C-660-22	22	51.7	5,841	9,269	38.0	10.422	1.2636
CI-M3C-660-23	23	54	6,106	9,690	39.7	10.895	1.2636
CI-M3C-660-24	24	56.3	6,372	10,111	41.4	11.369	1.2636
CI-M3C-660-25	25	58.6	6,637	10,533	43.1	11.843	1.2636
CI-M3C-660-26	26	60.9	6,903	10,954	44.9	12.317	1.2636
CI-M3C-660-27	27	63.1	7,168	11,375	46.6	12.790	1.2636
CI-M3C-660-28	28	65.4	7,434	11,797	48.3	13.264	1.2636
CI-M3C-660-29	29	67.8	7,699	12,218	50.0	13.738	1.2636
CI-M3C-660-30	30	70	7,965	12,639	51.8	14.211	1.2636
CI-M3C-660-31	31	72.3	8,230	13,061	53.5	14.685	1.2636
CI-M3C-660-32	32	74.6	8,496	13,482	55.2	15.159	1.2636
CI-M3C-660-33	33	76.9	8,761	13,903	56.9	15.633	1.2636
CI-M3C-660-34	34	79.2	9,027	14,325	58.7	16.106	1.2636
CI-M3C-660-35	35	81.5	9,292	14,746	60.4	16.580	1.2636
CI-M3C-660-36	36	83.8	9,558	15,167	62.1	17.054	1.2636
CI-M3C-660-37	37	86.1	9,823	15,589	63.8	17.527	1.2636
CI-M3C-660-38	38	88.4	10,089	16,010	65.6	18.001	1.2636
CI-M3C-660-39	39	90.7	10,354	16,431	67.3	18.475	1.2636
CI-M3C-660-40	40	93	10,620	16,852	69.0	18.949	1.2636

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.