Declaration of Performance

No. 202009-1097-US

Mercury 3 Column 22in

Unique product code:	CI-M3C-560
Type, batch or serial number:	CI-M3C-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:	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 August 2026

Castrads®

Appendix to DoP No. 202009-1097-US: Dimensions and thermal outputs

Panel dimensions: 22 in (560 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-560-03	3	8.1	643	1,014	4.2	1.237	1.2451
CI-M3C-560-04	4	10.4	858	1,352	5.5	1.649	1.2451
CI-M3C-560-05	5	12.7	1,072	1,690	6.9	2.061	1.2451
CI-M3C-560-06	6	15	1,286	2,028	8.3	2.473	1.2451
CI-M3C-560-07	7	17.2	1,501	2,365	9.7	2.885	1.2451
CI-M3C-560-08	8	19.5	1,715	2,703	11.1	3.298	1.2451
CI-M3C-560-09	9	21.9	1,930	3,041	12.5	3.710	1.2451
CI-M3C-560-10	10	24.1	2,144	3,379	13.8	4.122	1.2451
CI-M3C-560-11	11	26.4	2,358	3,717	15.2	4.534	1.2451
CI-M3C-560-12	12	28.7	2,573	4,055	16.6	4.946	1.2451
CI-M3C-560-13	13	31	2,787	4,393	18.0	5.359	1.2451
CI-M3C-560-14	14	33.3	3,001	4,731	19.4	5.771	1.2451
CI-M3C-560-15	15	35.6	3,216	5,069	20.8	6.183	1.2451
CI-M3C-560-16	16	37.9	3,430	5,407	22.1	6.595	1.2451
CI-M3C-560-17	17	40.2	3,645	5,745	23.5	7.007	1.2451
CI-M3C-560-18	18	42.5	3,859	6,083	24.9	7.420	1.2451
CI-M3C-560-19	19	44.8	4,073	6,421	26.3	7.832	1.2451
CI-M3C-560-20	20	47.1	4,288	6,759	27.7	8.244	1.2451
CI-M3C-560-21	21	49.4	4,502	7,096	29.1	8.656	1.2451
CI-M3C-560-22	22	51.7	4,717	7,434	30.5	9.068	1.2451
CI-M3C-560-23	23	54	4,931	7,772	31.8	9.481	1.2451
CI-M3C-560-24	24	56.3	5,145	8,110	33.2	9.893	1.2451
CI-M3C-560-25	25	58.6	5,360	8,448	34.6	10.305	1.2451
CI-M3C-560-26	26	60.9	5,574	8,786	36.0	10.717	1.2451
CI-M3C-560-27	27	63.1	5,789	9,124	37.4	11.129	1.2451
CI-M3C-560-28	28	65.4	6,003	9,462	38.8	11.542	1.2451
CI-M3C-560-29	29	67.8	6,217	9,800	40.1	11.954	1.2451
CI-M3C-560-30	30	70	6,432	10,138	41.5	12.366	1.2451
CI-M3C-560-31	31	72.3	6,646	10,476	42.9	12.778	1.2451
CI-M3C-560-32	32	74.6	6,860	10,814	44.3	13.190	1.2451
CI-M3C-560-33	33	76.9	7,075	11,152	45.7	13.603	1.2451
CI-M3C-560-34	34	79.2	7,289	11,489	47.1	14.015	1.2451
CI-M3C-560-35	35	81.5	7,504	11,827	48.4	14.427	1.2451
CI-M3C-560-36	36	83.8	7,718	12,165	49.8	14.839	1.2451
CI-M3C-560-37	37	86.1	7,932	12,503	51.2	15.251	1.2451
CI-M3C-560-38	38	88.4	8,147	12,841	52.6	15.664	1.2451
CI-M3C-560-39	39	90.7	8,361	13,179	54.0	16.076	1.2451
CI-M3C-560-40	40	93	8,576	13,517	55.4	16.488	1.2451

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.