Declaration of Performance

No. 202009-1109-US

Mercury 6 Column 38in

Unique product code:	CI-M6C-960
Type, batch or serial number:	CI-M6C-960
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:	103146A2PS

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. 202009-1109-US: Dimensions and thermal outputs

Panel dimensions: 37.8 in (960 mm) high when floor standing, 8.5 in (215 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-M6C-960-03	3	8.1	2,076	3,430	14.0	2.367	1.3745
CI-M6C-960-04	4	10.4	2,768	4,574	18.7	3.156	1.3745
CI-M6C-960-05	5	12.7	3,459	5,717	23.4	3.945	1.3745
CI-M6C-960-06	6	15	4,151	6,860	28.1	4.734	1.3745
CI-M6C-960-07	7	17.2	4,843	8,004	32.7	5.523	1.3745
CI-M6C-960-08	8	19.5	5,535	9,147	37.4	6.312	1.3745
CI-M6C-960-09	9	21.9	6,227	10,291	42.1	7.101	1.3745
CI-M6C-960-10	10	24.1	6,919	11,434	46.8	7.890	1.3745
CI-M6C-960-11	11	26.4	7,611	12,577	51.4	8.679	1.3745
CI-M6C-960-12	12	28.7	8,303	13,721	56.1	9.468	1.3745
CI-M6C-960-13	13	31	8,995	14,864	60.8	10.257	1.3745
CI-M6C-960-14	14	33.3	9,687	16,008	65.5	11.046	1.3745
CI-M6C-960-15	15	35.6	10,378	17,151	70.1	11.835	1.3745
CI-M6C-960-16	16	37.9	11,070	18,294	74.8	12.624	1.3745
CI-M6C-960-17	17	40.2	11,762	19,438	79.5	13.413	1.3745
CI-M6C-960-18	18	42.5	12,454	20,581	84.2	14.202	1.3745
CI-M6C-960-19	19	44.8	13,146	21,725	88.8	14.991	1.3745
CI-M6C-960-20	20	47.1	13,838	22,868	93.5	15.780	1.3745
CI-M6C-960-21	21	49.4	14,530	24,011	98.2	16.569	1.3745
CI-M6C-960-22	22	51.7	15,222	25,155	102.9	17.358	1.3745
CI-M6C-960-23	23	54	15,914	26,298	107.5	18.147	1.3745
CI-M6C-960-24	24	56.3	16,606	27,442	112.2	18.936	1.3745
CI-M6C-960-25	25	58.6	17,297	28,585	116.9	19.725	1.3745
CI-M6C-960-26	26	60.9	17,989	29,728	121.6	20.513	1.3745
CI-M6C-960-27	27	63.1	18,681	30,872	126.2	21.302	1.3745
CI-M6C-960-28	28	65.4	19,373	32,015	130.9	22.091	1.3745
CI-M6C-960-29	29	67.8	20,065	33,159	135.6	22.880	1.3745
CI-M6C-960-30	30	70	20,757	34,302	140.3	23.669	1.3745
CI-M6C-960-31	31	72.3	21,449	35,445	144.9	24.458	1.3745
CI-M6C-960-32	32	74.6	22,141	36,589	149.6	25.247	1.3745
CI-M6C-960-33	33	76.9	22,833	37,732	154.3	26.036	1.3745
CI-M6C-960-34	34	79.2	23,525	38,876	159.0	26.825	1.3745
CI-M6C-960-35	35	81.5	24,216	40,019	163.6	27.614	1.3745
CI-M6C-960-36	36	83.8	24,908	41,162	168.3	28.403	1.3745
CI-M6C-960-37	37	86.1	25,600	42,306	173.0	29.192	1.3745
CI-M6C-960-38	38	88.4	26,292	43,449	177.7	29.981	1.3745
CI-M6C-960-39	39	90.7	26,984	44,593	182.3	30.770	1.3745
CI-M6C-960-40	40	93	27,676	45,736	187.0	31.559	1.3745

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.