Declaration of Performance

No. 202009-1107-US

Mercury 6 Column 14in

Unique product code:	CI-M6C-360
Type, batch or serial number:	CI-M6C-360
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
26th November 2026



Castrads®

Appendix to DoP No. 202009-1107-US: Dimensions and thermal outputs

Panel dimensions: 14.2 in (360 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-360-03	3	8.1	754	1,181	4.8	1.545	1.2292
CI-M6C-360-04	4	10.4	1,005	1,575	6.5	2.060	1.2292
CI-M6C-360-05	5	12.7	1,256	1,969	8.1	2.576	1.2292
CI-M6C-360-06	6	15	1,508	2,363	9.7	3.091	1.2292
CI-M6C-360-07	7	17.2	1,759	2,756	11.3	3.606	1.2292
CI-M6C-360-08	8	19.5	2,010	3,150	12.9	4.121	1.2292
CI-M6C-360-09	9	21.9	2,261	3,544	14.5	4.636	1.2292
CI-M6C-360-10	10	24.1	2,513	3,938	16.1	5.151	1.2292
CI-M6C-360-11	11	26.4	2,764	4,331	17.7	5.666	1.2292
CI-M6C-360-12	12	28.7	3,015	4,725	19.4	6.181	1.2292
CI-M6C-360-13	13	31	3,266	5,119	21.0	6.697	1.2292
CI-M6C-360-14	14	33.3	3,518	5,513	22.6	7.212	1.2292
CI-M6C-360-15	15	35.6	3,769	5,906	24.2	7.727	1.2292
CI-M6C-360-16	16	37.9	4,020	6,300	25.8	8.242	1.2292
CI-M6C-360-17	17	40.2	4,271	6,694	27.4	8.757	1.2292
CI-M6C-360-18	18	42.5	4,523	7,088	29.0	9.272	1.2292
CI-M6C-360-19	19	44.8	4,774	7,481	30.7	9.787	1.2292
CI-M6C-360-20	20	47.1	5,025	7,875	32.3	10.302	1.2292
CI-M6C-360-21	21	49.4	5,276	8,269	33.9	10.818	1.2292
CI-M6C-360-22	22	51.7	5,528	8,663	35.5	11.333	1.2292
CI-M6C-360-23	23	54	5,779	9,056	37.1	11.848	1.2292
CI-M6C-360-24	24	56.3	6,030	9,450	38.7	12.363	1.2292
CI-M6C-360-25	25	58.6	6,282	9,844	40.3	12.878	1.2292
CI-M6C-360-26	26	60.9	6,533	10,238	41.9	13.393	1.2292
CI-M6C-360-27	27	63.1	6,784	10,631	43.6	13.908	1.2292
CI-M6C-360-28	28	65.4	7,035	11,025	45.2	14.423	1.2292
CI-M6C-360-29	29	67.8	7,287	11,419	46.8	14.938	1.2292
CI-M6C-360-30	30	70	7,538	11,813	48.4	15.454	1.2292
CI-M6C-360-31	31	72.3	7,789	12,206	50.0	15.969	1.2292
CI-M6C-360-32	32	74.6	8,040	12,600	51.6	16.484	1.2292
CI-M6C-360-33	33	76.9	8,292	12,994	53.2	16.999	1.2292
CI-M6C-360-34	34	79.2	8,543	13,388	54.8	17.514	1.2292
CI-M6C-360-35	35	81.5	8,794	13,781	56.5	18.029	1.2292
CI-M6C-360-36	36	83.8	9,045	14,175	58.1	18.544	1.2292
CI-M6C-360-37	37	86.1	9,297	14,569	59.7	19.059	1.2292
CI-M6C-360-38	38	88.4	9,548	14,963	61.3	19.575	1.2292
CI-M6C-360-39	39	90.7	9,799	15,356	62.9	20.090	1.2292
CI-M6C-360-40	40	93	10,050	15,750	64.5	20.605	1.2292

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.