

Castrads®

Declaration of Performance

No. 202009-1090-US

Grace 6 Column 19in

Unique product code:	CI-G6C-485
Type, batch or serial number:	CI-G6C-485
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:	101885/2

Declared performance

Essential characteristics	Performance	Reference standard
Reaction to fire	A1 — non-combustible	
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	EN 442-1:2014
Rated thermal outputs	See appendix 1	
Thermal output in different operating conditions (characteristic curve)	$\phi = K_m \cdot \Delta T^n$. See appendix for factor K_m 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





Appendix to DoP No. 202009-1090-US: Dimensions and thermal outputs

Panel dimensions: 19.1 in (485 mm) high when floor standing, 10 in (255 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-G6C-485-03	3	8.3	1,066	1,695	6.9	1.854	1.2698
CI-G6C-485-04	4	10.7	1,421	2,260	9.3	2.472	1.2698
CI-G6C-485-05	5	13.1	1,776	2,825	11.6	3.090	1.2698
CI-G6C-485-06	6	15.5	2,131	3,389	13.9	3.708	1.2698
CI-G6C-485-07	7	17.9	2,486	3,954	16.2	4.326	1.2698
CI-G6C-485-08	8	20.2	2,841	4,519	18.5	4.944	1.2698
CI-G6C-485-09	9	22.6	3,197	5,084	20.8	5.563	1.2698
CI-G6C-485-10	10	25	3,552	5,649	23.1	6.181	1.2698
CI-G6C-485-11	11	27.4	3,907	6,214	25.4	6.799	1.2698
CI-G6C-485-12	12	29.8	4,262	6,779	27.8	7.417	1.2698
CI-G6C-485-13	13	32.2	4,617	7,344	30.1	8.035	1.2698
CI-G6C-485-14	14	34.5	4,972	7,909	32.4	8.653	1.2698
CI-G6C-485-15	15	36.9	5,328	8,474	34.7	9.271	1.2698
CI-G6C-485-16	16	39.3	5,683	9,038	37.0	9.889	1.2698
CI-G6C-485-17	17	41.7	6,038	9,603	39.3	10.507	1.2698
CI-G6C-485-18	18	44.1	6,393	10,168	41.6	11.125	1.2698
CI-G6C-485-19	19	46.5	6,748	10,733	44.0	11.743	1.2698
CI-G6C-485-20	20	48.8	7,103	11,298	46.3	12.361	1.2698
CI-G6C-485-21	21	51.2	7,459	11,863	48.6	12.979	1.2698
CI-G6C-485-22	22	53.6	7,814	12,428	50.9	13.597	1.2698
CI-G6C-485-23	23	56	8,169	12,993	53.2	14.215	1.2698
CI-G6C-485-24	24	58.3	8,524	13,558	55.5	14.833	1.2698
CI-G6C-485-25	25	60.7	8,879	14,123	57.8	15.452	1.2698
CI-G6C-485-26	26	63.1	9,234	14,687	60.1	16.070	1.2698
CI-G6C-485-27	27	65.5	9,590	15,252	62.5	16.688	1.2698
CI-G6C-485-28	28	67.9	9,945	15,817	64.8	17.306	1.2698
CI-G6C-485-29	29	70.3	10,300	16,382	67.1	17.924	1.2698
CI-G6C-485-30	30	72.6	10,655	16,947	69.4	18.542	1.2698
CI-G6C-485-31	31	75	11,010	17,512	71.7	19.160	1.2698
CI-G6C-485-32	32	77.4	11,365	18,077	74.0	19.778	1.2698
CI-G6C-485-33	33	79.8	11,721	18,642	76.3	20.396	1.2698
CI-G6C-485-34	34	82.2	12,076	19,207	78.6	21.014	1.2698
CI-G6C-485-35	35	84.6	12,431	19,772	81.0	21.632	1.2698
CI-G6C-485-36	36	86.9	12,786	20,336	83.3	22.250	1.2698
CI-G6C-485-37	37	89.3	13,141	20,901	85.6	22.868	1.2698
CI-G6C-485-38	38	91.7	13,496	21,466	87.9	23.486	1.2698
CI-G6C-485-39	39	94.1	13,852	22,031	90.2	24.104	1.2698
CI-G6C-485-40	40	96.5	14,207	22,596	92.5	24.722	1.2698

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 $\phi = K_m \times \Delta T^n$ (ΔT = mean water – room, °C); BTU/h rounded to whole numbers, EDR to one decimal place.