

Castrads®

Declaration of Performance

No. 202009-1086-US

Grace 4 Column 20in

Unique product code:	CI-G4C-500
Type, batch or serial number:	CI-G4C-500
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. 202009-1086-US: Dimensions and thermal outputs

Panel dimensions: 19.7 in (500 mm) high when floor standing, 6.9 in (175 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-G4C-500-03	3	8.3	775	1,221	5.0	1.493	1.2445
CI-G4C-500-04	4	10.7	1,033	1,628	6.7	1.991	1.2445
CI-G4C-500-05	5	13.1	1,291	2,035	8.3	2.488	1.2445
CI-G4C-500-06	6	15.5	1,549	2,442	10.0	2.986	1.2445
CI-G4C-500-07	7	17.9	1,808	2,849	11.7	3.484	1.2445
CI-G4C-500-08	8	20.2	2,066	3,255	13.3	3.982	1.2445
CI-G4C-500-09	9	22.6	2,324	3,662	15.0	4.479	1.2445
CI-G4C-500-10	10	25	2,582	4,069	16.7	4.977	1.2445
CI-G4C-500-11	11	27.4	2,840	4,476	18.3	5.475	1.2445
CI-G4C-500-12	12	29.8	3,099	4,883	20.0	5.972	1.2445
CI-G4C-500-13	13	32.2	3,357	5,290	21.7	6.470	1.2445
CI-G4C-500-14	14	34.5	3,615	5,697	23.3	6.968	1.2445
CI-G4C-500-15	15	36.9	3,873	6,104	25.0	7.465	1.2445
CI-G4C-500-16	16	39.3	4,132	6,511	26.7	7.963	1.2445
CI-G4C-500-17	17	41.7	4,390	6,918	28.3	8.461	1.2445
CI-G4C-500-18	18	44.1	4,648	7,325	30.0	8.958	1.2445
CI-G4C-500-19	19	46.5	4,906	7,732	31.7	9.456	1.2445
CI-G4C-500-20	20	48.8	5,165	8,139	33.3	9.954	1.2445
CI-G4C-500-21	21	51.2	5,423	8,546	35.0	10.451	1.2445
CI-G4C-500-22	22	53.6	5,681	8,953	36.7	10.949	1.2445
CI-G4C-500-23	23	56	5,939	9,360	38.3	11.447	1.2445
CI-G4C-500-24	24	58.3	6,197	9,766	40.0	11.945	1.2445
CI-G4C-500-25	25	60.7	6,456	10,173	41.7	12.442	1.2445
CI-G4C-500-26	26	63.1	6,714	10,580	43.3	12.940	1.2445
CI-G4C-500-27	27	65.5	6,972	10,987	45.0	13.438	1.2445
CI-G4C-500-28	28	67.9	7,230	11,394	46.7	13.935	1.2445
CI-G4C-500-29	29	70.3	7,489	11,801	48.3	14.433	1.2445
CI-G4C-500-30	30	72.6	7,747	12,208	50.0	14.931	1.2445
CI-G4C-500-31	31	75	8,005	12,615	51.7	15.428	1.2445
CI-G4C-500-32	32	77.4	8,263	13,022	53.3	15.926	1.2445
CI-G4C-500-33	33	79.8	8,521	13,429	55.0	16.424	1.2445
CI-G4C-500-34	34	82.2	8,780	13,836	56.7	16.921	1.2445
CI-G4C-500-35	35	84.6	9,038	14,243	58.3	17.419	1.2445
CI-G4C-500-36	36	86.9	9,296	14,650	60.0	17.917	1.2445
CI-G4C-500-37	37	89.3	9,554	15,057	61.7	18.415	1.2445
CI-G4C-500-38	38	91.7	9,813	15,464	63.3	18.912	1.2445
CI-G4C-500-39	39	94.1	10,071	15,870	65.0	19.410	1.2445
CI-G4C-500-40	40	96.5	10,329	16,277	66.7	19.908	1.2445

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