

Castrads®

Declaration of Performance

No. 202009-1089-US

Grace 4 Column 38in

Unique product code:	CI-G4C-960
Type, batch or serial number:	CI-G4C-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:	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. 202009-1089-US: Dimensions and thermal outputs

Panel dimensions: 37.4 in (950 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-960-03	3	8.3	1,538	2,500	10.2	2.101	1.3297
CI-G4C-960-04	4	10.7	2,050	3,333	13.6	2.802	1.3297
CI-G4C-960-05	5	13.1	2,563	4,167	17.0	3.502	1.3297
CI-G4C-960-06	6	15.5	3,076	5,000	20.5	4.202	1.3297
CI-G4C-960-07	7	17.9	3,588	5,833	23.9	4.903	1.3297
CI-G4C-960-08	8	20.2	4,101	6,667	27.3	5.603	1.3297
CI-G4C-960-09	9	22.6	4,613	7,500	30.7	6.304	1.3297
CI-G4C-960-10	10	25	5,126	8,333	34.1	7.004	1.3297
CI-G4C-960-11	11	27.4	5,639	9,167	37.5	7.704	1.3297
CI-G4C-960-12	12	29.8	6,151	10,000	40.9	8.405	1.3297
CI-G4C-960-13	13	32.2	6,664	10,833	44.3	9.105	1.3297
CI-G4C-960-14	14	34.5	7,176	11,667	47.7	9.806	1.3297
CI-G4C-960-15	15	36.9	7,689	12,500	51.1	10.506	1.3297
CI-G4C-960-16	16	39.3	8,201	13,333	54.6	11.206	1.3297
CI-G4C-960-17	17	41.7	8,714	14,167	58.0	11.907	1.3297
CI-G4C-960-18	18	44.1	9,227	15,000	61.4	12.607	1.3297
CI-G4C-960-19	19	46.5	9,739	15,833	64.8	13.308	1.3297
CI-G4C-960-20	20	48.8	10,252	16,667	68.2	14.008	1.3297
CI-G4C-960-21	21	51.2	10,764	17,500	71.6	14.708	1.3297
CI-G4C-960-22	22	53.6	11,277	18,333	75.0	15.409	1.3297
CI-G4C-960-23	23	56	11,790	19,167	78.4	16.109	1.3297
CI-G4C-960-24	24	58.3	12,302	20,000	81.8	16.810	1.3297
CI-G4C-960-25	25	60.7	12,815	20,833	85.2	17.510	1.3297
CI-G4C-960-26	26	63.1	13,327	21,667	88.6	18.210	1.3297
CI-G4C-960-27	27	65.5	13,840	22,500	92.1	18.911	1.3297
CI-G4C-960-28	28	67.9	14,353	23,333	95.5	19.611	1.3297
CI-G4C-960-29	29	70.3	14,865	24,167	98.9	20.312	1.3297
CI-G4C-960-30	30	72.6	15,378	25,000	102.3	21.012	1.3297
CI-G4C-960-31	31	75	15,890	25,833	105.7	21.712	1.3297
CI-G4C-960-32	32	77.4	16,403	26,667	109.1	22.413	1.3297
CI-G4C-960-33	33	79.8	16,916	27,500	112.5	23.113	1.3297
CI-G4C-960-34	34	82.2	17,428	28,333	115.9	23.814	1.3297
CI-G4C-960-35	35	84.6	17,941	29,167	119.3	24.514	1.3297
CI-G4C-960-36	36	86.9	18,453	30,000	122.7	25.214	1.3297
CI-G4C-960-37	37	89.3	18,966	30,833	126.2	25.915	1.3297
CI-G4C-960-38	38	91.7	19,479	31,667	129.6	26.615	1.3297
CI-G4C-960-39	39	94.1	19,991	32,500	133.0	27.316	1.3297
CI-G4C-960-40	40	96.5	20,504	33,333	136.4	28.016	1.3297

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.