



# Declaration of Performance

No. 202009-1102

Mercury 4 Column 460mm

<b>Unique product code:</b>	CI/M4C/460
<b>Type, batch or serial number:</b>	CI/M4C/460
<b>Intended use of the construction product:</b>	In heating systems in buildings
<b>Manufacturer:</b>	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
<b>System of AVCP:</b>	System 3
<b>Harmonized standard:</b>	EN 442-1:2014
<b>Notified body:</b>	BSRIA Limited Old Bracknell Lane West Bracknell Berkshire RG12 7AH United Kingdom
<b>Test report number:</b>	61431

## Declared performance

Essential characteristics	Performance	Harmonized technical specification
Reaction to fire	A1	EN 442-1:2014
Release of dangerous substances	None	
Pressure tightness	No leakage at 1.3 × maximum operating pressure [kPa]	
Surface temperature	Maximum 120 °C	
Resistance to pressure	No breakage at 1.69 × maximum operating pressure [kPa]	
Resistance to pressure	Maximum operating pressure: 1000 [kPa]	
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	

## Appendix: Dimensions and thermal outputs

Dimensions: 460mm h, 140mm d for all numbers of sections. See table for length.

SKU	Number of sections	Length, mm	Output, W $\Delta T50$	Output, W $\Delta T30$	Factor, Km	Exponent, n
CI/M4C/460/03	3	205	174	93	1.438	1.2262
CI/M4C/460/04	4	263	232	124	1.917	1.2262
CI/M4C/460/05	5	322	290	155	2.396	1.2262
CI/M4C/460/06	6	380	348	186	2.876	1.2262
CI/M4C/460/07	7	438	406	217	3.355	1.2262
CI/M4C/460/08	8	496	464	248	3.834	1.2262
CI/M4C/460/09	9	555	522	279	4.313	1.2262
CI/M4C/460/10	10	613	580	310	4.793	1.2262
CI/M4C/460/11	11	671	638	341	5.272	1.2262
CI/M4C/460/12	12	730	696	372	5.751	1.2262
CI/M4C/460/13	13	788	754	403	6.23	1.2262
CI/M4C/460/14	14	846	812	434	6.71	1.2262
CI/M4C/460/15	15	905	870	465	7.189	1.2262
CI/M4C/460/16	16	963	928	496	7.668	1.2262
CI/M4C/460/17	17	1021	986	527	8.147	1.2262
CI/M4C/460/18	18	1079	1044	558	8.627	1.2262
CI/M4C/460/19	19	1138	1102	589	9.106	1.2262
CI/M4C/460/20	20	1196	1160	620	9.585	1.2262
CI/M4C/460/21	21	1254	1218	651	10.065	1.2262
CI/M4C/460/22	22	1313	1276	682	10.544	1.2262
CI/M4C/460/23	23	1371	1334	713	11.023	1.2262
CI/M4C/460/24	24	1429	1392	744	11.502	1.2262
CI/M4C/460/25	25	1488	1450	775	11.982	1.2262
CI/M4C/460/26	26	1546	1508	806	12.461	1.2262
CI/M4C/460/27	27	1604	1566	837	12.94	1.2262
CI/M4C/460/28	28	1662	1624	868	13.419	1.2262
CI/M4C/460/29	29	1721	1682	899	13.899	1.2262
CI/M4C/460/30	30	1779	1740	930	14.378	1.2262
CI/M4C/460/31	31	1837	1798	961	14.857	1.2262
CI/M4C/460/32	32	1896	1856	992	15.336	1.2262
CI/M4C/460/33	33	1954	1914	1023	15.816	1.2262
CI/M4C/460/34	34	2012	1972	1054	16.295	1.2262
CI/M4C/460/35	35	2071	2030	1085	16.774	1.2262
CI/M4C/460/36	36	2129	2088	1116	17.253	1.2262
CI/M4C/460/37	37	2187	2146	1147	17.733	1.2262
CI/M4C/460/38	38	2245	2204	1178	18.212	1.2262
CI/M4C/460/39	39	2304	2262	1209	18.691	1.2262
CI/M4C/460/40	40	2362	2320	1240	19.171	1.2262

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