



# Declaration of Performance

No. 202009-1104

Mercury 4 Column 760mm

<b>Unique product code:</b>	CI-M4C-760
<b>Type, batch or serial number:</b>	CI-M4C-760
<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

Panel dimensions: 760mm h, 139.7mm 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-760/03	3	205	287	152	2.198	1.24540
CI-M4C-760/04	4	263	382	202	2.930	1.24540
CI-M4C-760/05	5	322	478	253	3.663	1.24540
CI-M4C-760/06	6	380	574	304	4.396	1.24540
CI-M4C-760/07	7	438	669	354	5.128	1.24540
CI-M4C-760/08	8	496	765	405	5.861	1.24540
CI-M4C-760/09	9	555	860	455	6.593	1.24540
CI-M4C-760/10	10	613	956	506	7.326	1.24540
CI-M4C-760/11	11	671	1052	557	8.058	1.24540
CI-M4C-760/12	12	730	1147	607	8.791	1.24540
CI-M4C-760/13	13	788	1243	658	9.524	1.24540
CI-M4C-760/14	14	846	1338	708	10.256	1.24540
CI-M4C-760/15	15	905	1434	759	10.989	1.24540
CI-M4C-760/16	16	963	1530	810	11.721	1.24540
CI-M4C-760/17	17	1021	1625	860	12.454	1.24540
CI-M4C-760/18	18	1079	1721	911	13.187	1.24540
CI-M4C-760/19	19	1138	1816	961	13.919	1.24540
CI-M4C-760/20	20	1196	1912	1012	14.652	1.24540
CI-M4C-760/21	21	1254	2008	1063	15.384	1.24540
CI-M4C-760/22	22	1313	2103	1113	16.117	1.24540
CI-M4C-760/23	23	1371	2199	1164	16.850	1.24540
CI-M4C-760/24	24	1429	2294	1214	17.582	1.24540
CI-M4C-760/25	25	1488	2390	1265	18.315	1.24540
CI-M4C-760/26	26	1546	2486	1316	19.047	1.24540
CI-M4C-760/27	27	1604	2581	1366	19.780	1.24540
CI-M4C-760/28	28	1662	2677	1417	20.512	1.24540
CI-M4C-760/29	29	1721	2772	1467	21.245	1.24540
CI-M4C-760/30	30	1779	2868	1518	21.978	1.24540
CI-M4C-760/31	31	1837	2964	1569	22.710	1.24540
CI-M4C-760/32	32	1896	3059	1619	23.443	1.24540
CI-M4C-760/33	33	1954	3155	1670	24.175	1.24540
CI-M4C-760/34	34	2012	3250	1720	24.908	1.24540
CI-M4C-760/35	35	2071	3346	1771	25.641	1.24540
CI-M4C-760/36	36	2129	3442	1822	26.373	1.24540
CI-M4C-760/37	37	2187	3537	1872	27.106	1.24540
CI-M4C-760/38	38	2245	3633	1923	27.838	1.24540
CI-M4C-760/39	39	2304	3728	1973	28.571	1.24540
CI-M4C-760/40	40	2362	3824	2024	29.304	1.24540

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