



Declaration of Performance

No. 202009-1094

Mercury 2 Column 460mm

Unique product code:	CI/M2C/460
Type, batch or serial number:	CI/M2C/460
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Limited 1 Kenwood Road Stockport SK5 6PH United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	BSRIA Limited Old Bracknell Lane West Bracknell Berkshire RG12 7AH United Kingdom
Test report number:	101534

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, 70mm 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/M2C/460/03	3	206	106	57	9.649	1.2008
CI/M2C/460/04	4	264	141	76	12.865	1.2008
CI/M2C/460/05	5	323	177	96	16.082	1.2008
CI/M2C/460/06	6	381	212	115	19.298	1.2008
CI/M2C/460/07	7	440	247	134	22.514	1.2008
CI/M2C/460/08	8	498	282	153	25.73	1.2008
CI/M2C/460/09	9	557	318	172	28.947	1.2008
CI/M2C/460/10	10	615	353	191	32.163	1.2008
CI/M2C/460/11	11	674	388	210	35.379	1.2008
CI/M2C/460/12	12	732	424	229	38.596	1.2008
CI/M2C/460/13	13	791	459	248	41.812	1.2008
CI/M2C/460/14	14	849	494	267	45.028	1.2008
CI/M2C/460/15	15	908	530	287	48.245	1.2008
CI/M2C/460/16	16	966	565	306	51.461	1.2008
CI/M2C/460/17	17	1025	600	325	54.677	1.2008
CI/M2C/460/18	18	1083	635	344	57.893	1.2008
CI/M2C/460/19	19	1142	671	363	61.11	1.2008
CI/M2C/460/20	20	1200	706	382	64.326	1.2008
CI/M2C/460/21	21	1259	741	401	67.542	1.2008
CI/M2C/460/22	22	1317	777	420	70.759	1.2008
CI/M2C/460/23	23	1376	812	439	73.975	1.2008
CI/M2C/460/24	24	1434	847	458	77.191	1.2008
CI/M2C/460/25	25	1493	883	478	80.408	1.2008
CI/M2C/460/26	26	1551	918	497	83.624	1.2008
CI/M2C/460/27	27	1610	953	516	86.84	1.2008
CI/M2C/460/28	28	1668	988	535	90.056	1.2008
CI/M2C/460/29	29	1727	1024	554	93.273	1.2008
CI/M2C/460/30	30	1785	1059	573	96.489	1.2008
CI/M2C/460/31	31	1844	1094	592	99.705	1.2008
CI/M2C/460/32	32	1902	1130	611	102.922	1.2008
CI/M2C/460/33	33	1961	1165	630	106.138	1.2008
CI/M2C/460/34	34	2019	1200	649	109.354	1.2008
CI/M2C/460/35	35	2078	1236	669	112.571	1.2008
CI/M2C/460/36	36	2136	1271	688	115.787	1.2008
CI/M2C/460/37	37	2195	1306	707	119.003	1.2008
CI/M2C/460/38	38	2253	1341	726	122.219	1.2008
CI/M2C/460/39	39	2312	1377	745	125.436	1.2008
CI/M2C/460/40	40	2370	1412	764	128.652	1.2008

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