



Declaration of Performance

No. 202009-1097

Mercury 3 Column 560mm

Unique product code:	CI-M3C-560
Type, batch or serial number:	CI-M3C-560
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

Panel dimensions: 560mm h, 101mm 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-M3C-560/03	3	205	161	86	1.237	1.24510
CI-M3C-560/04	4	263	215	114	1.649	1.24510
CI-M3C-560/05	5	322	269	143	2.061	1.24510
CI-M3C-560/06	6	380	323	171	2.473	1.24510
CI-M3C-560/07	7	438	377	200	2.885	1.24510
CI-M3C-560/08	8	496	430	228	3.298	1.24510
CI-M3C-560/09	9	555	484	257	3.710	1.24510
CI-M3C-560/10	10	613	538	285	4.122	1.24510
CI-M3C-560/11	11	671	592	314	4.534	1.24510
CI-M3C-560/12	12	730	646	342	4.946	1.24510
CI-M3C-560/13	13	788	699	371	5.359	1.24510
CI-M3C-560/14	14	846	753	399	5.771	1.24510
CI-M3C-560/15	15	905	807	428	6.183	1.24510
CI-M3C-560/16	16	963	861	456	6.595	1.24510
CI-M3C-560/17	17	1021	915	485	7.007	1.24510
CI-M3C-560/18	18	1079	968	513	7.420	1.24510
CI-M3C-560/19	19	1138	1022	542	7.832	1.24510
CI-M3C-560/20	20	1196	1076	570	8.244	1.24510
CI-M3C-560/21	21	1254	1130	599	8.656	1.24510
CI-M3C-560/22	22	1313	1184	627	9.068	1.24510
CI-M3C-560/23	23	1371	1237	656	9.481	1.24510
CI-M3C-560/24	24	1429	1291	684	9.893	1.24510
CI-M3C-560/25	25	1488	1345	713	10.305	1.24510
CI-M3C-560/26	26	1546	1399	741	10.717	1.24510
CI-M3C-560/27	27	1604	1453	770	11.129	1.24510
CI-M3C-560/28	28	1662	1506	798	11.542	1.24510
CI-M3C-560/29	29	1721	1560	827	11.954	1.24510
CI-M3C-560/30	30	1779	1614	855	12.366	1.24510
CI-M3C-560/31	31	1837	1668	884	12.778	1.24510
CI-M3C-560/32	32	1896	1722	912	13.190	1.24510
CI-M3C-560/33	33	1954	1775	941	13.603	1.24510
CI-M3C-560/34	34	2012	1829	969	14.015	1.24510
CI-M3C-560/35	35	2071	1883	998	14.427	1.24510
CI-M3C-560/36	36	2129	1937	1026	14.839	1.24510
CI-M3C-560/37	37	2187	1991	1055	15.251	1.24510
CI-M3C-560/38	38	2245	2044	1083	15.664	1.24510
CI-M3C-560/39	39	2304	2098	1112	16.076	1.24510
CI-M3C-560/40	40	2362	2152	1140	16.488	1.24510

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