



# Declaration of Performance

No. 202009-1100

Mercury 3 Column 860mm

<b>Unique product code:</b>	CI-M3C-860
<b>Type, batch or serial number:</b>	CI-M3C-860
<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: 860mm 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-860/03	3	205	262	135	1.608	1.30200
CI-M3C-860/04	4	263	350	180	2.144	1.30200
CI-M3C-860/05	5	322	437	225	2.680	1.30200
CI-M3C-860/06	6	380	524	269	3.216	1.30200
CI-M3C-860/07	7	438	612	314	3.752	1.30200
CI-M3C-860/08	8	496	699	359	4.288	1.30200
CI-M3C-860/09	9	555	787	404	4.824	1.30200
CI-M3C-860/10	10	613	874	449	5.360	1.30200
CI-M3C-860/11	11	671	961	494	5.896	1.30200
CI-M3C-860/12	12	730	1049	539	6.432	1.30200
CI-M3C-860/13	13	788	1136	584	6.968	1.30200
CI-M3C-860/14	14	846	1224	629	7.504	1.30200
CI-M3C-860/15	15	905	1311	674	8.040	1.30200
CI-M3C-860/16	16	963	1398	718	8.576	1.30200
CI-M3C-860/17	17	1021	1486	763	9.112	1.30200
CI-M3C-860/18	18	1079	1573	808	9.648	1.30200
CI-M3C-860/19	19	1138	1661	853	10.184	1.30200
CI-M3C-860/20	20	1196	1748	898	10.720	1.30200
CI-M3C-860/21	21	1254	1835	943	11.256	1.30200
CI-M3C-860/22	22	1313	1923	988	11.792	1.30200
CI-M3C-860/23	23	1371	2010	1033	12.328	1.30200
CI-M3C-860/24	24	1429	2098	1078	12.864	1.30200
CI-M3C-860/25	25	1488	2185	1123	13.400	1.30200
CI-M3C-860/26	26	1546	2272	1167	13.936	1.30200
CI-M3C-860/27	27	1604	2360	1212	14.472	1.30200
CI-M3C-860/28	28	1662	2447	1257	15.008	1.30200
CI-M3C-860/29	29	1721	2535	1302	15.544	1.30200
CI-M3C-860/30	30	1779	2622	1347	16.080	1.30200
CI-M3C-860/31	31	1837	2709	1392	16.616	1.30200
CI-M3C-860/32	32	1896	2797	1437	17.152	1.30200
CI-M3C-860/33	33	1954	2884	1482	17.688	1.30200
CI-M3C-860/34	34	2012	2972	1527	18.224	1.30200
CI-M3C-860/35	35	2071	3059	1572	18.760	1.30200
CI-M3C-860/36	36	2129	3146	1616	19.296	1.30200
CI-M3C-860/37	37	2187	3234	1661	19.832	1.30200
CI-M3C-860/38	38	2245	3321	1706	20.368	1.30200
CI-M3C-860/39	39	2304	3409	1751	20.905	1.30200
CI-M3C-860/40	40	2362	3496	1796	21.441	1.30200

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