

 **Castrads**[®]
Declaration of Performance

No. 202009-1018

Florence 2 Column 685mm

Unique product code:	SMC-F2C-687
Type, batch or serial number:	SMC-F2C-687
Intended use of the construction product:	In heating systems in buildings
Manufacturer:	Castrads Ltd 1 Kenwood Road North Reddish SK5 6PH, Manchester, United Kingdom
System of AVCP:	System 3
Harmonized standard:	EN 442-1:2014
Notified body:	Politecnico di Milano
Test report number:	ENE/MRT.RES.01003_A

Declared performance

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

Signed for and on behalf of the manufacturer by:

Nicholas Baylis
CEO
Stockport, England
9th July 2026





Appendix to DOP No. 202009-1018: Dimensions and thermal outputs

Panel dimensions: 787mm high when floor standing, 67mm deep for all numbers of sections. See table for length.

SKU	Num of sec.	Length, mm	Output (Watts, DT50)	Output (Watts, DT30)	Factor, Km	Exponent, n
SMC-F2C-687-03	3	165	146	76	1.019	1.2693
SMC-F2C-687-04	4	210	195	102	1.359	1.2693
SMC-F2C-687-05	5	255	243	127	1.698	1.2693
SMC-F2C-687-06	6	300	292	153	2.038	1.2693
SMC-F2C-687-07	7	345	341	178	2.377	1.2693
SMC-F2C-687-08	8	390	390	204	2.717	1.2693
SMC-F2C-687-09	9	435	438	229	3.057	1.2693
SMC-F2C-687-10	10	480	487	255	3.396	1.2693
SMC-F2C-687-11	11	525	536	280	3.736	1.2693
SMC-F2C-687-12	12	570	584	306	4.076	1.2693
SMC-F2C-687-13	13	615	633	331	4.415	1.2693
SMC-F2C-687-14	14	660	682	356	4.755	1.2693
SMC-F2C-687-15	15	705	730	382	5.095	1.2693
SMC-F2C-687-16	16	750	779	407	5.434	1.2693
SMC-F2C-687-17	17	795	828	433	5.774	1.2693
SMC-F2C-687-18	18	840	876	458	6.114	1.2693
SMC-F2C-687-19	19	885	925	484	6.453	1.2693
SMC-F2C-687-20	20	930	974	509	6.793	1.2693
SMC-F2C-687-21	21	975	1023	535	7.132	1.2693
SMC-F2C-687-22	22	1020	1071	560	7.472	1.2693
SMC-F2C-687-23	23	1065	1120	586	7.812	1.2693
SMC-F2C-687-24	24	1110	1169	611	8.151	1.2693
SMC-F2C-687-25	25	1155	1217	637	8.491	1.2693
SMC-F2C-687-26	26	1200	1266	662	8.831	1.2693
SMC-F2C-687-27	27	1245	1315	687	9.170	1.2693
SMC-F2C-687-28	28	1290	1363	713	9.510	1.2693
SMC-F2C-687-29	29	1335	1412	738	9.850	1.2693
SMC-F2C-687-30	30	1380	1461	764	10.189	1.2693
SMC-F2C-687-31	31	1425	1509	789	10.529	1.2693
SMC-F2C-687-32	32	1470	1558	815	10.868	1.2693
SMC-F2C-687-33	33	1515	1607	840	11.208	1.2693
SMC-F2C-687-34	34	1560	1656	866	11.548	1.2693
SMC-F2C-687-35	35	1605	1704	891	11.887	1.2693
SMC-F2C-687-36	36	1650	1753	917	12.227	1.2693
SMC-F2C-687-37	37	1695	1802	942	12.567	1.2693
SMC-F2C-687-38	38	1740	1850	968	12.906	1.2693
SMC-F2C-687-39	39	1785	1899	993	13.246	1.2693
SMC-F2C-687-40	40	1830	1948	1018	13.586	1.2693