



# Declaration of Performance

No. 202009-1033

Florence 3 Column 685mm

<b>Unique product code:</b>	SMC/F3C/687
<b>Type, batch or serial number:</b>	SMC/F3C/687
<b>Intended use of the construction product:</b>	In heating systems in buildings
<b>Manufacturer:</b>	IRSAP spa Via delle Industrie 211 45031 Arqua' Polesine RO Italy
<b>System of AVCP:</b>	System 3
<b>Harmonized standard:</b>	EN 442-1:2014
<b>Notified body:</b>	Politecnico di Milano Department of Energy Via Ponzio 20133 Milan Italy
<b>Test report number:</b>	ENE/MRT.ITPL.01004

## 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: 687mm 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
SMC/F3C/687/03	3	165	106	205	1.317	1.29027
SMC/F3C/687/04	4	210	142	273	1.756	1.29027
SMC/F3C/687/05	5	255	177	342	2.196	1.29027
SMC/F3C/687/06	6	300	212	410	2.635	1.29027
SMC/F3C/687/07	7	345	248	478	3.074	1.29027
SMC/F3C/687/08	8	390	283	546	3.513	1.29027
SMC/F3C/687/09	9	435	319	615	3.952	1.29027
SMC/F3C/687/10	10	480	354	683	4.391	1.29027
SMC/F3C/687/11	11	525	389	751	4.830	1.29027
SMC/F3C/687/12	12	570	425	820	5.269	1.29027
SMC/F3C/687/13	13	615	460	888	5.708	1.29027
SMC/F3C/687/14	14	660	496	956	6.147	1.29027
SMC/F3C/687/15	15	705	531	1025	6.587	1.29027
SMC/F3C/687/16	16	750	566	1093	7.026	1.29027
SMC/F3C/687/17	17	795	602	1161	7.465	1.29027
SMC/F3C/687/18	18	840	637	1229	7.904	1.29027
SMC/F3C/687/19	19	885	673	1298	8.343	1.29027
SMC/F3C/687/20	20	930	708	1366	8.782	1.29027
SMC/F3C/687/21	21	975	743	1434	9.221	1.29027
SMC/F3C/687/22	22	1020	779	1503	9.660	1.29027
SMC/F3C/687/23	23	1065	814	1571	10.099	1.29027
SMC/F3C/687/24	24	1110	850	1639	10.538	1.29027
SMC/F3C/687/25	25	1155	885	1708	10.978	1.29027
SMC/F3C/687/26	26	1200	920	1776	11.417	1.29027
SMC/F3C/687/27	27	1245	956	1844	11.856	1.29027
SMC/F3C/687/28	28	1290	991	1912	12.295	1.29027
SMC/F3C/687/29	29	1335	1027	1981	12.734	1.29027
SMC/F3C/687/30	30	1380	1062	2049	13.173	1.29027
SMC/F3C/687/31	31	1425	1097	2117	13.612	1.29027
SMC/F3C/687/32	32	1470	1133	2186	14.051	1.29027
SMC/F3C/687/33	33	1515	1168	2254	14.490	1.29027
SMC/F3C/687/34	34	1560	1204	2322	14.929	1.29027
SMC/F3C/687/35	35	1605	1239	2391	15.369	1.29027
SMC/F3C/687/36	36	1650	1274	2459	15.808	1.29027
SMC/F3C/687/37	37	1695	1310	2527	16.247	1.29027
SMC/F3C/687/38	38	1740	1345	2595	16.686	1.29027
SMC/F3C/687/39	39	1785	1381	2664	17.125	1.29027
SMC/F3C/687/40	40	1830	1416	2732	17.564	1.29027

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