

 **Castrads**[®]
Declaration of Performance

No. 202009-1063

Florence 5 Column 685mm

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|--|--|
| Unique product code: | SMC-F5C-687 |
| Type, batch or serial number: | SMC-F5C-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_C |

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
19th June 2026





Appendix to DOP No. 202009-1063: Dimensions and thermal outputs

Panel dimensions: 787mm high when floor standing, 179mm 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-F5C-687-03 | 3 | 165 | 324 | 164 | 1.744 | 1.3358 |
| SMC-F5C-687-04 | 4 | 210 | 432 | 219 | 2.325 | 1.3358 |
| SMC-F5C-687-05 | 5 | 255 | 540 | 273 | 2.906 | 1.3358 |
| SMC-F5C-687-06 | 6 | 300 | 649 | 328 | 3.488 | 1.3358 |
| SMC-F5C-687-07 | 7 | 345 | 757 | 382 | 4.069 | 1.3358 |
| SMC-F5C-687-08 | 8 | 390 | 865 | 437 | 4.650 | 1.3358 |
| SMC-F5C-687-09 | 9 | 435 | 973 | 492 | 5.231 | 1.3358 |
| SMC-F5C-687-10 | 10 | 480 | 1081 | 546 | 5.813 | 1.3358 |
| SMC-F5C-687-11 | 11 | 525 | 1189 | 601 | 6.394 | 1.3358 |
| SMC-F5C-687-12 | 12 | 570 | 1297 | 656 | 6.975 | 1.3358 |
| SMC-F5C-687-13 | 13 | 615 | 1405 | 710 | 7.556 | 1.3358 |
| SMC-F5C-687-14 | 14 | 660 | 1513 | 765 | 8.138 | 1.3358 |
| SMC-F5C-687-15 | 15 | 705 | 1621 | 820 | 8.719 | 1.3358 |
| SMC-F5C-687-16 | 16 | 750 | 1730 | 874 | 9.300 | 1.3358 |
| SMC-F5C-687-17 | 17 | 795 | 1838 | 929 | 9.881 | 1.3358 |
| SMC-F5C-687-18 | 18 | 840 | 1946 | 983 | 10.463 | 1.3358 |
| SMC-F5C-687-19 | 19 | 885 | 2054 | 1038 | 11.044 | 1.3358 |
| SMC-F5C-687-20 | 20 | 930 | 2162 | 1093 | 11.625 | 1.3358 |
| SMC-F5C-687-21 | 21 | 975 | 2270 | 1147 | 12.206 | 1.3358 |
| SMC-F5C-687-22 | 22 | 1020 | 2378 | 1202 | 12.788 | 1.3358 |
| SMC-F5C-687-23 | 23 | 1065 | 2486 | 1257 | 13.369 | 1.3358 |
| SMC-F5C-687-24 | 24 | 1110 | 2594 | 1311 | 13.950 | 1.3358 |
| SMC-F5C-687-25 | 25 | 1155 | 2702 | 1366 | 14.532 | 1.3358 |
| SMC-F5C-687-26 | 26 | 1200 | 2811 | 1421 | 15.113 | 1.3358 |
| SMC-F5C-687-27 | 27 | 1245 | 2919 | 1475 | 15.694 | 1.3358 |
| SMC-F5C-687-28 | 28 | 1290 | 3027 | 1530 | 16.275 | 1.3358 |
| SMC-F5C-687-29 | 29 | 1335 | 3135 | 1584 | 16.857 | 1.3358 |
| SMC-F5C-687-30 | 30 | 1380 | 3243 | 1639 | 17.438 | 1.3358 |
| SMC-F5C-687-31 | 31 | 1425 | 3351 | 1694 | 18.019 | 1.3358 |
| SMC-F5C-687-32 | 32 | 1470 | 3459 | 1748 | 18.600 | 1.3358 |
| SMC-F5C-687-33 | 33 | 1515 | 3567 | 1803 | 19.182 | 1.3358 |
| SMC-F5C-687-34 | 34 | 1560 | 3675 | 1858 | 19.763 | 1.3358 |
| SMC-F5C-687-35 | 35 | 1605 | 3783 | 1912 | 20.344 | 1.3358 |
| SMC-F5C-687-36 | 36 | 1650 | 3892 | 1967 | 20.925 | 1.3358 |
| SMC-F5C-687-37 | 37 | 1695 | 4000 | 2022 | 21.507 | 1.3358 |
| SMC-F5C-687-38 | 38 | 1740 | 4108 | 2076 | 22.088 | 1.3358 |
| SMC-F5C-687-39 | 39 | 1785 | 4216 | 2131 | 22.669 | 1.3358 |
| SMC-F5C-687-40 | 40 | 1830 | 4324 | 2185 | 23.250 | 1.3358 |