

# Castrads®

## Declaration of Performance

No. 202009-1061

Florence 5 Column 500mm

|  |  |
|--|--|
| <b>Unique product code:</b>                      | SMC-F5C-502  |
| <b>Type, batch or serial number:</b>             | SMC-F5C-502  |
| <b>Intended use of the construction product:</b> | In heating systems in buildings  |
| <b>Manufacturer:</b>                             | Castrads Ltd<br>1 Kenwood Road North Reddish SK5 6PH, Manchester, United Kingdom |
| <b>System of AVCP:</b>                           | System 3   |
| <b>Harmonized standard:</b>                      | EN 442-1:2014  |
| <b>Notified body:</b>                            | Politecnico di Milano  |
| <b>Test report number:</b>                       | 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]<br>Maximum operating pressure: 1000 [kPa] | EN 442-1:2014                      |
| Rated thermal outputs   | See appendix 1   |                                    |
| Thermal output in different operating conditions (characteristic curve) | $\phi = K_m \cdot \Delta T^n$ .<br>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  
28th April 2026





## Appendix to DOP No. 202009-1061: Dimensions and thermal outputs

Panel dimensions: 602mm 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-502-03 | 3           | 165        | 244                  | 125                  | 1.470      | 1.3068      |
| SMC-F5C-502-04 | 4           | 210        | 325                  | 167                  | 1.959      | 1.3068      |
| SMC-F5C-502-05 | 5           | 255        | 407                  | 209                  | 2.449      | 1.3068      |
| SMC-F5C-502-06 | 6           | 300        | 488                  | 250                  | 2.939      | 1.3068      |
| SMC-F5C-502-07 | 7           | 345        | 569                  | 292                  | 3.429      | 1.3068      |
| SMC-F5C-502-08 | 8           | 390        | 651                  | 334                  | 3.919      | 1.3068      |
| SMC-F5C-502-09 | 9           | 435        | 732                  | 376                  | 4.409      | 1.3068      |
| SMC-F5C-502-10 | 10          | 480        | 813                  | 417                  | 4.899      | 1.3068      |
| SMC-F5C-502-11 | 11          | 525        | 895                  | 459                  | 5.388      | 1.3068      |
| SMC-F5C-502-12 | 12          | 570        | 976                  | 501                  | 5.878      | 1.3068      |
| SMC-F5C-502-13 | 13          | 615        | 1057                 | 542                  | 6.368      | 1.3068      |
| SMC-F5C-502-14 | 14          | 660        | 1139                 | 584                  | 6.858      | 1.3068      |
| SMC-F5C-502-15 | 15          | 705        | 1220                 | 626                  | 7.348      | 1.3068      |
| SMC-F5C-502-16 | 16          | 750        | 1302                 | 668                  | 7.838      | 1.3068      |
| SMC-F5C-502-17 | 17          | 795        | 1383                 | 709                  | 8.327      | 1.3068      |
| SMC-F5C-502-18 | 18          | 840        | 1464                 | 751                  | 8.817      | 1.3068      |
| SMC-F5C-502-19 | 19          | 885        | 1546                 | 793                  | 9.307      | 1.3068      |
| SMC-F5C-502-20 | 20          | 930        | 1627                 | 835                  | 9.797      | 1.3068      |
| SMC-F5C-502-21 | 21          | 975        | 1708                 | 876                  | 10.287     | 1.3068      |
| SMC-F5C-502-22 | 22          | 1020       | 1790                 | 918                  | 10.777     | 1.3068      |
| SMC-F5C-502-23 | 23          | 1065       | 1871                 | 960                  | 11.267     | 1.3068      |
| SMC-F5C-502-24 | 24          | 1110       | 1952                 | 1001                 | 11.756     | 1.3068      |
| SMC-F5C-502-25 | 25          | 1155       | 2034                 | 1043                 | 12.246     | 1.3068      |
| SMC-F5C-502-26 | 26          | 1200       | 2115                 | 1085                 | 12.736     | 1.3068      |
| SMC-F5C-502-27 | 27          | 1245       | 2196                 | 1127                 | 13.226     | 1.3068      |
| SMC-F5C-502-28 | 28          | 1290       | 2278                 | 1168                 | 13.716     | 1.3068      |
| SMC-F5C-502-29 | 29          | 1335       | 2359                 | 1210                 | 14.206     | 1.3068      |
| SMC-F5C-502-30 | 30          | 1380       | 2440                 | 1252                 | 14.696     | 1.3068      |
| SMC-F5C-502-31 | 31          | 1425       | 2522                 | 1294                 | 15.185     | 1.3068      |
| SMC-F5C-502-32 | 32          | 1470       | 2603                 | 1335                 | 15.675     | 1.3068      |
| SMC-F5C-502-33 | 33          | 1515       | 2684                 | 1377                 | 16.165     | 1.3068      |
| SMC-F5C-502-34 | 34          | 1560       | 2766                 | 1419                 | 16.655     | 1.3068      |
| SMC-F5C-502-35 | 35          | 1605       | 2847                 | 1460                 | 17.145     | 1.3068      |
| SMC-F5C-502-36 | 36          | 1650       | 2928                 | 1502                 | 17.635     | 1.3068      |
| SMC-F5C-502-37 | 37          | 1695       | 3010                 | 1544                 | 18.124     | 1.3068      |
| SMC-F5C-502-38 | 38          | 1740       | 3091                 | 1586                 | 18.614     | 1.3068      |
| SMC-F5C-502-39 | 39          | 1785       | 3172                 | 1627                 | 19.104     | 1.3068      |
| SMC-F5C-502-40 | 40          | 1830       | 3254                 | 1669                 | 19.594     | 1.3068      |