Castrads®

# Declaration of Performance

*No. 202009-1101*

Mercury 4 Column 360mm

| | |
|---|---|
| **Unique product code:** | CI-M4C-360 |
| **Type, batch or serial number:** | CI-M4C-360 |
| **Intended use of the construction product:** | In heating systems in buildings |
| **Manufacturer:** | Castrads Limited<br>1 Kenwood Road<br>Stockport, SK5 6PH<br>United Kingdom |
| **System of AVCP:** | System 3 |
| **Harmonized standard:** | EN 442-1:2014 |
| **Notified body:** | BSRIA Limited<br>Old Bracknell Lane<br>West Bracknell<br>Berkshire, RG12 7AH<br>United Kingdom |
| **Test report number:** | 103146A1PS |

## Declared performance

| Essential characteristics | Performance | Harmonised 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]<br>Maximum operating pressure: 1000 [kPa] | |
| Rated thermal outputs | See appendix 1 | |
| Thermal output in different operating conditions (characteristic curve) | $\phi = Km \cdot \Delta T^n$.<br>See appendix for factor Km 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:**

Nick Baylis
CEO
Stockport, England
28th June 2025



# Appendix to DOP No. 202009-1101: Dimensions and thermal outputs

Panel dimensions: 360mm high when floor standing, 140mm deep for all numbers of sections. See table for length.

| SKU | Number of sections | Length, mm | Output (Watts, ΔT50) | Output (Watts, ΔT30) | Factor, Km | Exponent, n |
|---|---|---|---|---|---|---|
| CI-M4C-360-03 | 3 | 205 | 132 | 72 | 1.107 | 1.222 |
| CI-M4C-360-04 | 4 | 263 | 176 | 96 | 1.476 | 1.222 |
| CI-M4C-360-05 | 5 | 322 | 220 | 120 | 1.845 | 1.222 |
| CI-M4C-360-06 | 6 | 380 | 264 | 144 | 2.214 | 1.222 |
| CI-M4C-360-07 | 7 | 438 | 308 | 168 | 2.582 | 1.222 |
| CI-M4C-360-08 | 8 | 496 | 352 | 192 | 2.951 | 1.222 |
| CI-M4C-360-09 | 9 | 555 | 396 | 216 | 3.320 | 1.222 |
| CI-M4C-360-10 | 10 | 613 | 440 | 240 | 3.689 | 1.222 |
| CI-M4C-360-11 | 11 | 671 | 484 | 264 | 4.058 | 1.222 |
| CI-M4C-360-12 | 12 | 730 | 528 | 288 | 4.427 | 1.222 |
| CI-M4C-360-13 | 13 | 788 | 572 | 312 | 4.796 | 1.222 |
| CI-M4C-360-14 | 14 | 846 | 616 | 336 | 5.165 | 1.222 |
| CI-M4C-360-15 | 15 | 905 | 660 | 360 | 5.534 | 1.222 |
| CI-M4C-360-16 | 16 | 963 | 704 | 384 | 5.903 | 1.222 |
| CI-M4C-360-17 | 17 | 1021 | 748 | 408 | 6.272 | 1.222 |
| CI-M4C-360-18 | 18 | 1079 | 792 | 432 | 6.641 | 1.222 |
| CI-M4C-360-19 | 19 | 1138 | 836 | 456 | 7.009 | 1.222 |
| CI-M4C-360-20 | 20 | 1196 | 880 | 480 | 7.378 | 1.222 |
| CI-M4C-360-21 | 21 | 1254 | 924 | 504 | 7.747 | 1.222 |
| CI-M4C-360-22 | 22 | 1313 | 968 | 528 | 8.116 | 1.222 |
| CI-M4C-360-23 | 23 | 1371 | 1012 | 552 | 8.485 | 1.222 |
| CI-M4C-360-24 | 24 | 1429 | 1056 | 576 | 8.854 | 1.222 |
| CI-M4C-360-25 | 25 | 1488 | 1100 | 600 | 9.223 | 1.222 |
| CI-M4C-360-26 | 26 | 1546 | 1144 | 624 | 9.592 | 1.222 |
| CI-M4C-360-27 | 27 | 1604 | 1188 | 648 | 9.961 | 1.222 |
| CI-M4C-360-28 | 28 | 1662 | 1232 | 672 | 10.330 | 1.222 |
| CI-M4C-360-29 | 29 | 1721 | 1276 | 696 | 10.699 | 1.222 |
| CI-M4C-360-30 | 30 | 1779 | 1320 | 720 | 11.068 | 1.222 |
| CI-M4C-360-31 | 31 | 1837 | 1364 | 744 | 11.437 | 1.222 |
| CI-M4C-360-32 | 32 | 1896 | 1408 | 768 | 11.805 | 1.222 |
| CI-M4C-360-33 | 33 | 1954 | 1452 | 792 | 12.174 | 1.222 |
| CI-M4C-360-34 | 34 | 2012 | 1496 | 816 | 12.543 | 1.222 |
| CI-M4C-360-35 | 35 | 2071 | 1540 | 840 | 12.912 | 1.222 |
| CI-M4C-360-36 | 36 | 2129 | 1584 | 864 | 13.281 | 1.222 |
| CI-M4C-360-37 | 37 | 2187 | 1628 | 888 | 13.650 | 1.222 |
| CI-M4C-360-38 | 38 | 2245 | 1672 | 912 | 14.019 | 1.222 |
| CI-M4C-360-39 | 39 | 2304 | 1716 | 936 | 14.388 | 1.222 |
| CI-M4C-360-40 | 40 | 2362 | 1760 | 960 | 14.757 | 1.222 |