

# CARTRIDGE HEATERS - Ø8 MM WITH BUILT-IN THERMOCOUPLE

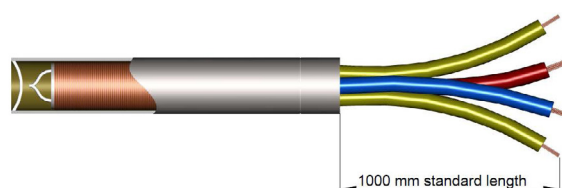


## Properties

The standard range of cartridge heaters in stock are used for heating of solid, liquid or gas in a wide range of industrial and engineering applications within plastic-, packaging-, rubber-, wood- and paper industry, foundries, medicine technical and laboratorial industry.

Typical applications are heating of moulds, hotplates, tools for sealing and marking equipment etc.

The cartridge heater design, with a resistance wire wrapped around a magnesium oxide core positioned close to the metal casing, gives an excellent heat distribution allowing a very high power at a limited space.



## Technical specification

|                       |                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material              | Cartridge Ø8 mm in stainless steel EN 1.4541/AISI 321 with a built-in thermocouple Fe-CuNi type J positioned according to variant 2                                                                           |
| Inactive lengths      | 5 mm at bottom end, 10 mm at connection end                                                                                                                                                                   |
| Heater voltage        | 230 V                                                                                                                                                                                                         |
| Electric connection   | Internal cable connection with 1000 mm high temperature resistant cables 260°C                                                                                                                                |
| Assembly              | Reamed hole min H7 tolerance is required for cartridges with surface power density $\leq 20 \text{ W/cm}^2$<br>Higher loads requires individual adjustment<br>Hole should be deeper than the cartridge length |
| Diameter tolerance    | -0.04 to -0.06 mm                                                                                                                                                                                             |
| Length tolerance      | $\pm 2 \text{ mm} \leq 100 \text{ mm}$ och $\pm 2 \% \geq 100 \text{ mm}$ cartridge length                                                                                                                    |
| Power tolerance       | +5% / -10%                                                                                                                                                                                                    |
| Surface power density | W/cm <sup>2</sup> acc. values in table                                                                                                                                                                        |
| Standards             | CE, EN 60335-1                                                                                                                                                                                                |

## Options

Assembly paste Loctite 8009 article no 3051773101

Lubricating spray article no 3050028001

Accessories such as alternative cable outlets and protections, connections, fittings water proof sealing etc. in separate data sheets Other voltages, wattages, lead lengths and dimensions in inches available on request

Cartridge heaters with built-in thermocouple in different positions variant 1 and 3-4.

UL-approved cartridges available on request

## Technical information and assembly

Instructions at assembly and disassembly, diagrams etc. in separate information sheet

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## Standard assortment

| Length<br>mm | Power<br>W | Load<br>W/cm <sup>2</sup> | Article<br>no |
|--------------|------------|---------------------------|---------------|
| 40           | 150        | 21                        | 3080400151    |
| 40           | 200        | 28                        | 3080400201    |
| 50           | 150        | 16                        | 3080500151    |
| 50           | 200        | 22                        | 3080500201    |
| 50           | 250        | 27                        | 3080500251    |
| 60           | 200        | 17                        | 3080600201    |
| 60           | 250        | 21                        | 3080600251    |
| 60           | 300        | 25                        | 3080600301    |
| 80           | 200        | 12                        | 3080800201    |
| 80           | 250        | 15                        | 3080800251    |
| 80           | 300        | 18                        | 3080800301    |
| 80           | 400        | 24                        | 3080800401    |
| 100          | 200        | 9                         | 3081000201    |
| 100          | 250        | 12                        | 3081000251    |
| 100          | 300        | 14                        | 3081000301    |
| 100          | 400        | 19                        | 3081000401    |
| 130          | 250        | 9                         | 3081300251    |
| 130          | 300        | 10                        | 3081300301    |
| 130          | 400        | 14                        | 3081300401    |
| 160          | 300        | 8                         | 3081600301    |
| 160          | 400        | 11                        | 3081600401    |
| 160          | 500        | 14                        | 3081600501    |