

PTC CARTRIDGE HEATERS - CPTCx

Calorflex PTC cartridge heaters are specifically designed to evaporate the water produced by the defrosting cycle in the refrigeration sector, by exploiting the reaction to temperature variations of certain particular ceramic compounds (PTC effect – Positive Temperature Coefficient). In fact, the PTC provides a heating power that is dependant on temperature, thus emitting the maximum power at the lowest temperature and reducing the power emission gradually as the temperature rises.

The main advantages of this system are:

Reduction in costs

The use of a PTC cartridge resistance avoids the need of any additional protective device. This allows not only to reduce the direct cost of the device, but to save further money, eliminating the accessories (fixing supports), the electrical connections and the cost of labour.

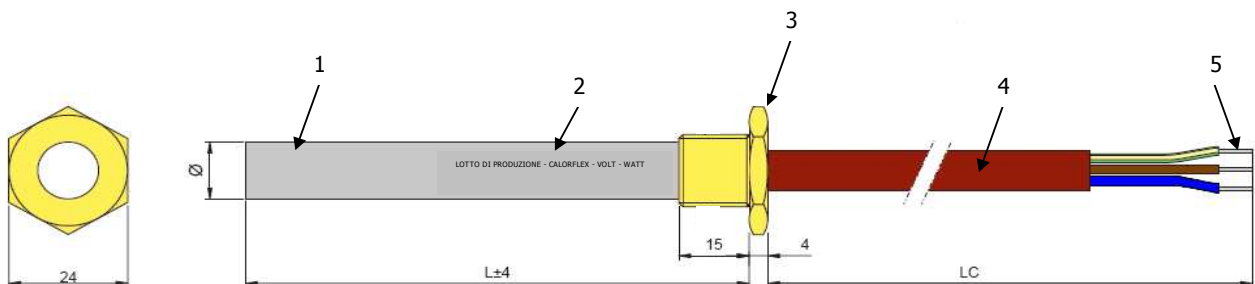
Safety

In critical working conditions, when all the water has evaporated from the tank, and the resistance is working uncovered and with no direct heat exchange, the power emitted by the heater immediately falls to the minimum, in order to avoid any risk to damage either the heater or the tank.

Easy to assemble

The assembly of the resistance simply requires a 17mm hole on one side of the tank (as close as possible to the bottom). The heater is inserted and fixed with a screw nut and a gasket that are separately supplied.

STRUCTURE SKETCH



- 1 – Aisi Tube
- 2 – Rating plate marking
- 3 – Brass connector 3/8" G CH 24
- 4 – Silicone rubber insulated tri-pole wire
- 5 – Faston terminal at request

GENERAL CHARACTERISTICS

Type of heater	CPTC1	CPTC2	CPTC3
Length of cartridge L / Diameter Ø	120 / 12	180 / 12	240 / 12
Evaporation capacity	0.11 Kg/h	0.2 Kg/h	0.3 Kg/h
Voltage (V)	220 / 260	220 / 260	220 / 260
Power in water at 0°C	110W	230W	330W
Power with no water	10W	20W	30W
Brass connector (key 24)	3/8" GAS	3/8" GAS	3/8" GAS
Length of wire LC	at request	at request	at request

PROVISIONS AND REFERENCE HOMOLOGATIONS

- Design, manufacture and testing in compliance with harmonized standards EN 60335
- In compliance with 2006/95/EEC DIRECTIVE
- CE declaration of conformity on all items