NormaWatt: Cartridge Heaters

Economical heating

Cartridges with low voltage inserts are the most suitable for moderate heating up to 300ºC. Made with best quality stainless steel tube that can be found, or with other material such as copper, brass or aluminium. Everything is perfectly calibrated.

A long-life ceramic piece is inserted into the tube and stands up to every continuous temperature variation, together with the best possible thermic conductivity, as the piece is in contact with the wall of the tube, thereby giving a perfect distribution of heat. The heater wire is inside the ceramic piece and is of highest quality.

The nickel-chronium heater wire is the most suitable for the manufacture of cartridge heaters due to its high degree of tolerance to high temperatures. Coated with checked granulometric magnesium oxide, covering the whole inside of the cartridge heater. Therefore, a perfect conductivity between the heater wire and the heater is obtained.

- Economical
- Uniform temperature
- Variety of terminations

Technical Data

Heat intensity	Not exceeding 4Wcm^2 (advisable)
Power	Depends on the dimension
Escape of current (when cold)	<=0.1mA a 242 v.
Insulation (when cold)	<=5mA. a 500v.
Dielectric strength	1500v. 1/second
Working temperature	350ºG max.
Tolerance of length	+/-1.5%
Tolerance of diameter	-0.1
Tolerance of cut of connexion	+/-15 mlm
Power tolerance (w)	+ 5 % - 10 %
Cold areas	Depends on length and diameter 5-25mm

Applications

- Moulds
- Smelting of materials
- Heating of fluids
- Heat welding, etc

Call us now to discuss your resistance thermometer needs.