



# CARTRIDGE HEATING ELEMENTS

Cartridge heating elements consist of a ceramic heating element mounted in a tube and supplied as standard with a cable or junction box.

The cartridge can also be supplied with a nipple, so that it can be fitted directly into the item to be heated, e.g. a water tank, oil tank, tool, machinery or vessel.

This product is versatile. The principal advantage of a cartridge heating element is that it will often be possible to replace it without emptying the vessel or tank.

When dimensioning a cartridge heating element, it is important to know the nature of the substance in which the heating element is to be used, as the capacity to absorb heat varies according to the substance.

The outer tube is available in stainless steel, AISI 304 or AISI 316. Other steel qualities can be supplied on request.

The table below shows standard diameters.

**Cartridge heating element with 1½" or 2" nipple and junction box**



**Cartridge heating element with ½", ¾" or 1" nipple and cable**



**Cartridge heating element with cable and shrinking flex terminal**



Ceramic groove block	Outer tube	Guideline load: watt per 50mm tube		
		Air	Oil	Water
Ø8.3	Ø10.0	15	30	65
Ø10.0	Ø12.0	18	35	75
Ø11.5	Ø14.0	22	45	90
Ø12.5	Ø16.0	25	60	120
Ø20.0	Ø22.0	35	70	140
Ø22.0	Ø25.0	40	80	150
Ø36.0	Ø42.4	60	120	240
Ø46.0	Ø51.0	77	155	310