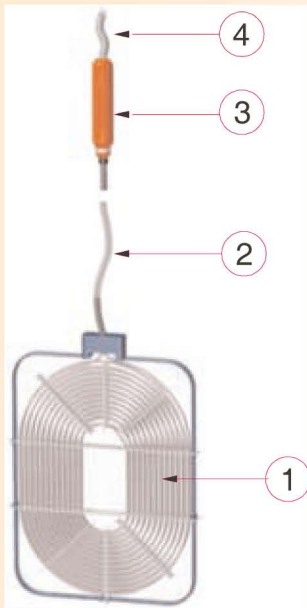


FLAT TEFLON HEATERS FOR AGGRESSIVE LIQUIDS, GVT MODELS



Flat GVT Teflon heaters are especially designed to heat highly aggressive liquids and in cases where reduced dimensions and a substantial heat-power supply are required.

Its Teflon coat (Teflon-FEP or Teflon-PFA) and its low load density (just 1 W/cm<sup>2</sup>) confer great stability against most aggressive liquids.

The choice of coat (single- or double-layer FEP or PFA) must depend on the working temperature and type of liquid being heated.

The FEP coat can be used in most cases. A double-layer coat is recommended for some applications in heating nitric-acid baths.

The Teflon PFA coat must be chosen in particularly critical conditions, with extremely aggressive liquids and very high liquid temperatures.

The 1 W/cm<sup>2</sup> load density is adequate for heating up to 90 °C. For working temperatures between 90 and 120 °C, heaters with a load density of 0.5 W/cm<sup>2</sup> are recommended.

**Description**

The flat-shaped heating area must always remain submerged.

In continuation of the heating area there is a non-heated support (called "N"), which must remain covered by at least 20 cm of liquid. The two black marks in the N zone indicate the maximum and minimum liquid level.

The N zone is protected by an elastic polypropylene braid.

Behind the N zone there is a connection consisting of an injected-PVC tube with protection grade IP64. A power lead type H05 VV-F or H07 RN-F, according to voltage and power, leads out from the connection hood (called "C"). The connection must be fitted outside the tank and away from the incidence of vapours.

- 1.- Heating area, which must always remain submerged
- 2.- N zone (non-heated). Standard length 1000 mm
- 3.- Connection hood IP64
- 4.- Power lead C. Standard length 1000 mm

**General Characteristics**

- Injected-PVC hood IP64
  - Single-phase heaters: Ø30 mm x 195 mm length
  - Three-phase heaters: Ø30 mm x 220 mm length
- Coat: One layer of Teflon FEP. Also on request: Teflon FEP with double layer or Teflon PFA with single or double layer.
- 1000-mm long power lead type H05 VV-F for single-phase heaters or type H07 RN-F for three-phase heaters .
- Load density: 1 W/cm<sup>2</sup>
- Standard voltage ~230 V or 3~400 V

**Standardised models**

**Type A models**

For fitting to side or bottom of tank

With metal frame coated with polypropylene or polyvinyl fluoride

**Type B models**

With fastener for fitting to side of tank

With metal frame coated with polypropylene or polyvinyl fluoride

**Type C models**

For fitting to side or bottom of tank

**Type D models**

For fitting to bottom of tank

**Type F models**

Universal model for all fitting types whether side or bottom of tank with feet.

Rigid structure is ideal for high power needs.



**Accessories**

**Cables**



Type H05 VV-F  
Type H07 RN-F

**Packing gland**



Ø75 mm packing gland  
available in polypropylene or polyvinyl fluoride

**Protective grilles**



Polypropylene or polyvinyl-fluoride perforated plastic grille

**Feet**



For fitting to tank floor.  
Available in polypropylene or polyvinyl fluoride