



## CRN TECNOPART, S.A.

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**CB-170.161E**

### HEATERS FOR LARGE DEPOSITS

#### Type HP 60 up to 80 °C

Made up of electric heating elements sealed in polyester fabric coated, washable and impermeable. With thermal insulation foam 5 mm thick. The shape of the HP 60 heater can be adapted to various sizes of surfaces or containers; This includes round and square openings. Options for fixing, by means of hooks, eyelets and velcro,

Work temperature	80 ° C
Supply Voltage	Up to 500 VAC / cc single-phase or three-phase
Power	Up to 500 W / m <sup>2</sup>
Minimum ambient temperature	--20 ° C, Installation minimum temperature + 5 ° C
Composition	Polyester fabric with PVC coating
Dimensions	Maximum 5000 x 10000 mm
Thickness	10 mm, with 5 mm insulation foam
Fixing Options	Hooks, Buttonholes, Velcro
Temperature sensor	PT100 / HTI control
Connection cable	3.0 m
Connector	optional
Degree of protection	IP44 (EN 60529), class I



Container heating mant

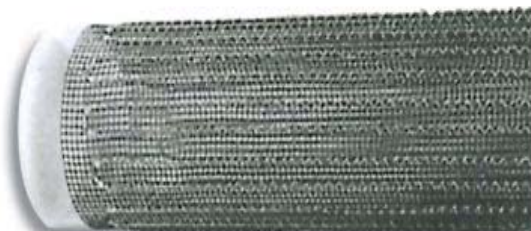


Heating mant for tanks

#### Type HMG up to 250 °C

This heating mat is reinforced with a metal lattice. The heating conductors are PTFE insulated and have PE conductor braiding. The maximum operating temperature is 250°C. The heating mat can bestretched over tanks and pipes with Velcro fastenings (accessory).

Operating temperature	Max. 250 ° C
Supply Voltage	Up to 500 VAC / cc single-phase or three-phase
Power	Up to 2000 W / m <sup>2</sup>
Minimum ambient temperature	-40 ° C
Composition	PTFE insulated heating cable, Mounted on a metal mesh of VA steel or galvanized steel
Dimensions	Maximum 1000 x 5000 mm
Separation of mesh	10 x 10 mm
Thickness	5 mm approximately
Temperature sensor	PT100 (Optional: NiCr-Ni, Fe-CuNi, HTI)
Connection cable	1.5 m
Connector	optional
Degree of protection	IP54 (EN 60529), class I
Insulation (optionall	Polymer foam (175 ° C), Silicone foam / 250 ° C)



Application example.  
Heating of a distributor. Geometrically difficult surface

## Type HFH up to 450 °C

Heating sleeve with glass silk fabric jacket

The structure is similar to type HMM. However, the entire heating sleeve consists of glass silk material that clings effectively and closely to the heated object. The sleeves are specifically adapted and manufactured for the heated object.

Working temperature	Up to 250 ° C with PTFE heating cable Up to 450 ° C with fiberglass heater cable
Supply Voltage	230 Vac (others on request)
Power	Depending on application and characteristics
Material	Glass silk coated
Dimensions	Made to measure
Temperature sensor	Thermocouples type J and K, probe PT 100
Connection cable	1.5 m cable
Connector	optional
Degree of protection	IP40 (standard model), IP54 (on request), Protection class I



## EXAMPLE OF HFH CUSTOM FABRICATIONS

### Heating systems for vacuum systems



These high vacuum pumps are heated to 350°C with a removable split heating sleeve. The requirement was uniform heat distribution over the entire surface.

### Heating mobile tanks



Here the removable heating sleeve is adapted with thermal insulation and temperature control to the mobile tank.

### Removable insulating heating sleeve

The complicated geometry could be insulated against heat losses and heated in a cost-effective and service-friendly way by splitting into several segments. All parts are quick and easy to seal and remove with Velcro fasteners



Example of Perforated Envelope Plate with Free holes for pipe outlets, controls etc..

