

## TEMPERATURE MAINTENANCE SYSTEMS

## TCF - TCF/TV

### Silicon elastomer insulated drum heaters



### Characteristics

- Silicon elastomer insulated heating mats.
- Damp-proof and splash-proof.
- Double insulation.
- Power supply: 230 V as standard.
- Fixed by means of hooks and a stainless steel spring.
- If an accurate temperature is necessary, use either a thermometer or a thermostat immersed in the liquid.
- TCF : Silicon elastomer insulated drum heater without thermostat.
- TCF/TV : with adjustable thermostat graduated from 0 to 11 (approx + 20°C to + 150°C).
- Ingress protection code : TCF IP55, TCF/TV IP54.



TCF

The graphs show the increase in temperature of a 200 liter drum filled with a liquid of density 1 and specific heat 1 Kcal/kg.°C



TCF/TV

### Applications

TCF and TCF/TV drum heaters are specially designed to heat the contents of drums of 30, 60, 120 and 200 liter capacity from around the outside.

They are recommended for obtaining relatively low temperatures with a fairly long heating time, or for maintaining medium temperatures.

A typical example is heating fluids to reduce their viscosity ready for pumping or transfer operations: glucose, honey, fat, wax and oil.

To reach the required temperature more quickly, drums can be heated or maintained at temperature with 1, 2 or 3 drum-heaters.

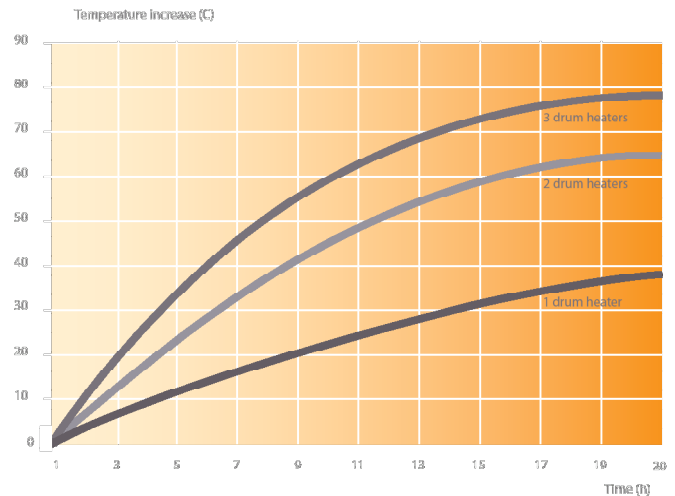
To ensure that these heating elements enjoy a long service life, we recommend using a control device, especially for TCF drum-heaters.



### Standards

CEI 62395-1 CEI 62395-2

### Temperature increase with time



	TCF/300 TCF/TV/300	TCF/500 TCF/TV/500	TCF/750 TCF/TV/750	TCF/1000 TCF/TV/1000
Heating element	Nickel-Copper or Nickel-Chrome heating wire			
Heating wire insulation	Silicon elastomer			
Second insulation	Fiber glass mat impregnated with silicon elastomer			
Length of heating section	770 mm	935 mm	1280 mm	1660 mm
Width	150 mm			
Drum diameter (± 10 mm)	296 mm	350 mm	460 mm	580 mm
Standard capacity (as a guide)	30 L	60 L	120 L	200 L
Power	300 W	500 W	750 W	1000 W
Voltage	230 V			
Permissible surface temperature	up to + 200°C			
Length of power cable	2 m			

### Use

Consult the pages of the catalogue devoted to the corresponding general operating principles, general instructions for use and accessories.

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