

F RTP HEATERS

Description

Heating element integrated in FRTP (Fibre Reinforced Therm plastic), a unique product patented by Calesco (part of Backer BHV). The heating circuit is well protected in an extremely durable enclosure with superior impact and abrasion resistance properties. The material is also moisture resistant and therefore well suited for harsh environments. The stiffness makes it suitable for both stand alone applications as well as integration in other equipment. Many different surface finish are possible, from soft thermoplastic rubber to stiff shiny surfaces with integrated text or even pictures. The heater can also be laminated together with heat-insulation as well as metal parts. The unique manufacturing technique enables a large freedom of design.

Technical specification

Max element temp.	100 °C (212°F)
Min. element temp.	-40°C (-40°F)
Dielectric strength at 20°C AS per ASTM KV/mm	20
Thermal conductivity at 100 °C W/(m•K)	0.36
Moisture absorption as per ASTM D-570-63. (24h immersion at 23°C)	0,025%
Waterproof as per IEC 335-1 sect. 15-16	yes
Constant of dielectricity at 25°C, 50Hz	3.0
Bending radius, min	400 mm
Max. element width	600 mm
Power density	0.1 W/cm ² (up to 0.7 immersed)
Resistance tolerance	As standard, ±5% of nominal. Tolerance down to ±2% available
Rated voltage	Up to 690 V AC/DC single or 3 phase

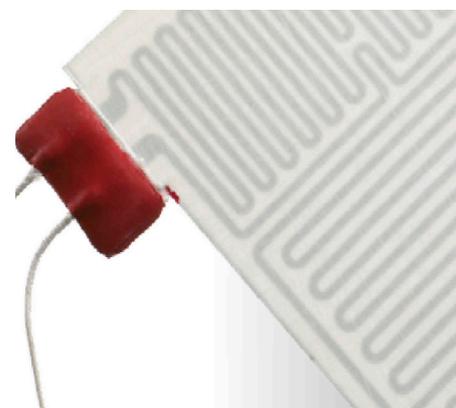
Benefits & Fields of Application

BENEFITS

- Stiffness and durability
- Impact and water resistance
- Design freedom with Integrated functions

FIELDS OF APPLICATION

- Radiator panels
- Heater for rough conditions
- Floor heating



Product photo



Application photo