

F RTP Heater

>> Fibre Reinforced Thermoplastic Heater

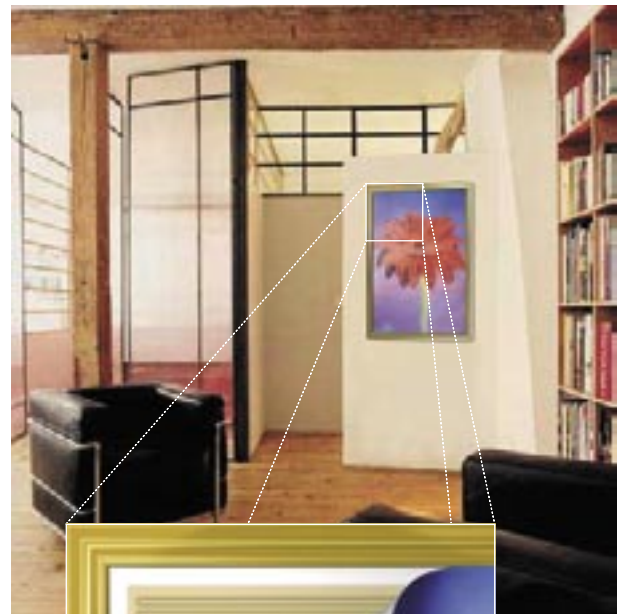
Fibre Reinforced Thermoplastic Heater is a unique product patented by Calesco Foil AB. The heating element is integrated in fibre reinforced thermoplastic material. The heating circuit is hence well protected in an extremely durable enclosure with superior impact and abrasion resistance properties.

The material is also moisture resistant and therefore well suited for harsh environments. The stiffness of the products make it suitable for both stand alone applications as well as integration in other equipment. The product can have many different surfaces ranging 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 in design.

>> Technical Specifications

Max. element temp. °C, (°F)	80 (176)
Min. element temp. °C, (°F)	-50 (-58)
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. (24 h immersion at 23°C) %	0.025
Waterproof as per IEC 335-1 sect. 15-16	Yes
Constant of dielectricity at 25°C, 50 Hz	3.0
Bending radius, min. mm	400
Max. element width mm	800
Power density W/cm ²	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.



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>> Heater benefits

- Stiffness
- Durability
- Impact resistance
- Design freedom
- Integrated functions
- Water resistant

>> Typical applications

- Radiator panels
- Heater for rough condition
- Floor heating