

BENEFITS OF EPOXY BONDED HEATERS & PLUG-IN THERMOSTATS

Our range of epoxy bonded heaters and plug-in thermostats offer significant benefits over traditional soldered heaters and wired thermostats.

In the last five years we have a zero failure rate on the epoxy bond due to corrosion, compared to a much higher rate on soldered joints.

All Backer Electric and Heatrod domestic epoxy bonded heaters have Nemko Safety Approvals when used with a WTS or TSE thermostat.



Benefits of Epoxy Bonded Heaters

- In 5 years of manufacture, no products have been returned for leaking through the bonded joint*
- Joint is more robust and stronger than solder
- Bonded joint less susceptible to damage in transit
- Less susceptible to corrosion from scale build up in relation to the epoxy bond
- Simple titanium heater design, with epoxy bonding and increased element life in harsh water environments. 5 year manufacturing and materials warranty included on titanium heaters.
- Standard titanium jointing method is O-ring and rubber, which can degrade over time, causing leakage
- No post cleaning process required, as there is no soldering process. Resulting in a neater finish.
- Standardised manufacturing process for all immersion heaters

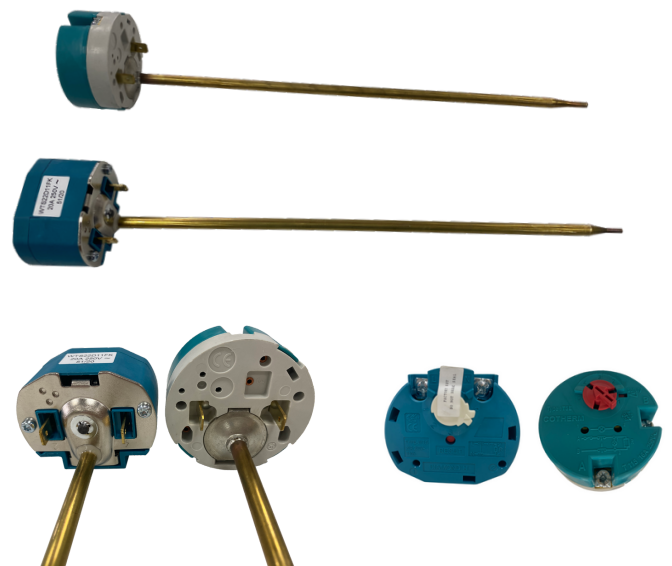


Epoxy bonded immersion heaters

Benefits of Plug-in Thermostats

Diamond H WTS and Cotherm TSE/TSR Thermostats

- Easy to remove and replace thermostat due to plug-in design
- Double pole isolation. Isolates Live and Neutral. This is a requirement for any pressurised cylinder under EN 60335.
- Guaranteed connection to elements with plug-in design
- More robust termination for the installer, as it utilises standard screw termination, as opposed to grub screws which can easily become loose over time due to their smaller size and also not allowing a higher torque. Allows use of insulated fork/ring terminals.**
- Higher accuracy than alternative wired in thermostats, due to capillary and memory metal designs***
- Fire hazard caused by loose wiring is reduced, with zero factory wiring - no risk from manufacturing process and limited installer risk.
- Easy to replace with different temperature rated thermostats i.e. high temperature cut out for thermal store applications.



Diamond H & Cotherm Thermostats

All terminals should be checked regularly to ensure a good connection. *WTS & TSR models only

BENEFITS OF EPOXY BONDED HEATERS & PLUG-IN THERMOSTATS

Fitting a Plug-in Thermostat

Example shown: SH314A-AA1HA2 heater with Diamond H WTS thermostat

1. Remove cap from heater



2. Push thermostat into pocket, ensuring that the male tab terminals (on the underside of the thermostat head), push into the female tab terminals of the element:



For further technical specifications or support on wiring and setting thermostat dials, please visit our website: www.backer.co.uk