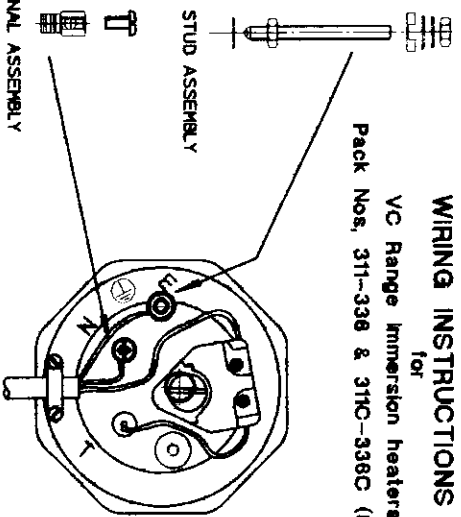


**BACKER ELECTRIC COMPANY LIMITED**  
**WIRING INSTRUCTIONS**

for  
VC Range Immersion heaters  
Pack Nos. 311-336 & 310-336C (800/826)



This heater is designed to take Backermatic, Coltherm TSDR & Sunvic VKL 3000 Series thermostats.

1. Connect the heater to the supply with flexible cord of either of the following types:
  - 1.5mm 85°C rubber-insulated, 85°C RS 3-sheathed, complying with table 8 of BS6141:1991, OR 2.5mm 90°C PVC - insulated, 85°C PVC - sheathed, complying with table 15 of BS6141:1991.
2. Insert thermostat into pocket and connect to lead attached to terminal marked 'T'.
3. Wire the supply leads through a double pole switch to the heater as follows:-
  - 3.1 Green or Green and Yellow to Earth terminal marked 'E'.
  - 3.2 Black or Blue to Neutral terminal marked 'N' with the loose components as shown above.
  - 3.3 Red or Brown to Free terminal on Thermostat.
  - 3.4 Fasten flexible cord in the cable clamp with loose components as shown above.
4. An efficient earth must be provided to the terminal marked 'E'.

Ensure ALL terminal screws are thoroughly tightened before re-fitting cover

**WARNING : THIS APPLIANCE MUST BE EARTHED**  
**BACKER ELECTRIC COMPANY LIMITED,ROTHERHAM**

FC80000

**IMPORTANT NOTES**

**OPERATING CONDITIONS**

This heater is intended for use only in a domestic hot water system with an indirect or direct copper cylinder conforming to BS 699, BS 1566, BS 3196 or similar specification and operating at a maximum temperature of, or below, 85 degrees centigrade.

No warranty is given or implied for uses other than as part of a domestic hot water system.

**FITTING TO TANK**

The heater is to be fitted to the tank using the washer supplied for a 'Water Council' approved non-asbestos washer of at least 1.5mm in thickness) and tightened to a minimum torque of 30 Nm. To ensure a 'leakfree' joint, it is important that both flange faces are clean and free from all traces of old washer.

**WATER HARDNESS**

To obtain maximum heater service life it is important to select the correct type of immersion heater for the local water conditions.

The 'Standard' range of immersion heaters, where the sheath is of 'COPPER' material, are designed to operate in 'Soft' to 'Neutral' water or where water softening equipment is used.

The 'Backerloy' or 'Anti-Corrosive' ranges immersion heaters, where the sheath is of 'STAINLESS' type material, are designed to operate in 'Neutral' to 'Hard' water where the build-up of limescale is likely to occur.

**POWER SHOWERS OR SHOWER PUMPS**

Where a second hot water outlet is fitted to the storage cylinder (hot water tank) to supply a shower pump or power shower, the guarantee / warranty does NOT cover defects arising from the operation of the heater when not totally immersed in water.

**LIMITATIONS**

Any use other than that as listed above will invalidate the product guarantee unless the details of the operating environment are subject to a contractual agreement.

The guarantee / warranty does NOT cover defects arising from accidental damage, misuse, wear and tear, inappropriate selection to suit the local water conditions, incorrect connection or incorrect supply voltage.

**'CE' MARKING**

The 'CE' marking of this product indicates conformance to the following EEC regulations:- Electro Magnetic Compatibility Regulations (EMC), Electrical Equipment (Safety) Regulations / Low Voltage Directive (LVD) and the CE Marking Regulations.