

Dorchester DR-CC

Electrical connections

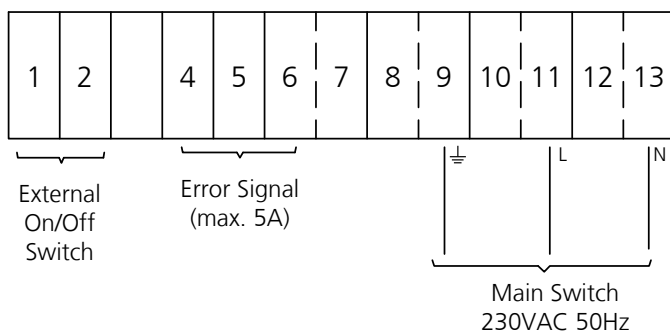
The electrical connection junction box is located within the middle casing section of the water heater to accept cables for power supply and controls. A single terminal rail is located within this junction box for all external connections.

Power supply

An independent isolator and fused electrical supply is required for each water heater and remote monitoring unit for interfacing with a building management system (BMS). Supply 230 volt, 50 Hz, single phase.

Wiring external to the heater and any optional remote monitoring unit must be in accordance with IET regulations and any local regulations which apply. Wiring must be completed in heat resistant cables, and mains supply cables should be 3-core cable, size 1.00 mm². External fuses should be 6 Amp.

Electrical connections diagram



Remote alarm/fault signal

In the event of the water heater developing a fault, a common alarm signal is raised, which closes a normally-open volt-free switch to connect terminals 4 and 5 together. This can be used to complete a circuit switching on an externally powered (maximum 230 V) fault indication lamp or alarm circuit (not HHL supply). At the same time as the switch is made, an error code associated with the fault is generated and displayed at the control panel to aid fault diagnosis.

The following electrical connections are provided on each water heater:

- ⊙ Supply live, neutral and earth
- ⊙ Alarm signal output (volt free contact)
- ⊙ Remote enable of water heater

