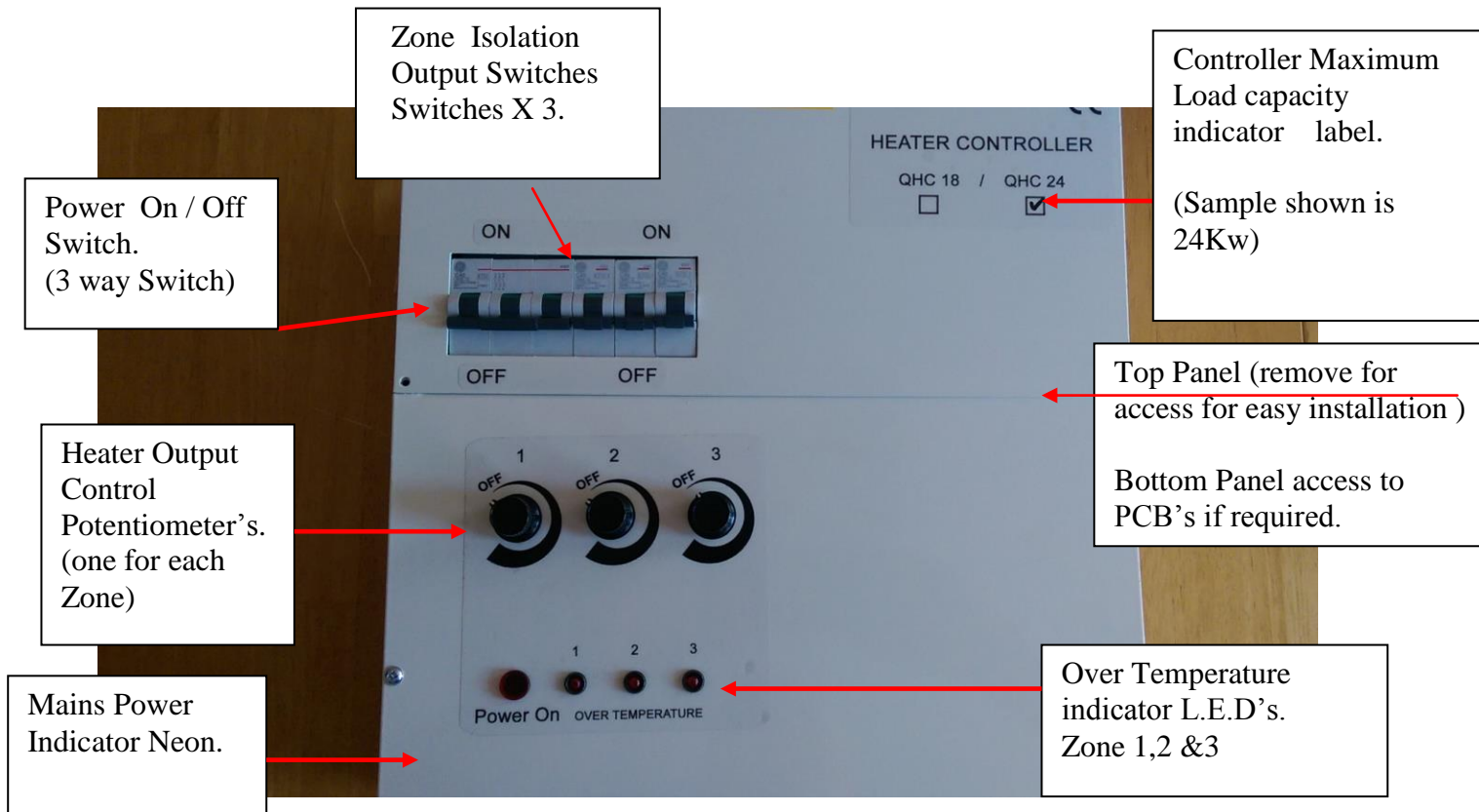


# QHC 18 and QHC 24 KW Controllers



**18kw = P/N (QHC18)** (Medium power) Load capacity 18 Kilo watts.

**24kw = P/N (QHC24)** (High power) Load capacity 24 Kilo watts.

## Common operation on both units

- 👍 Operating input Voltage 230 Volts. AC single phase or three phase.
- 👍 3 Zone Output.
- 👍 3 zone's are controlled by 3 individual potentiometer's on the front panel ( This is not standard and requested when order is placed ).
- 👍 The controller can be triggered by using our external Push button or buttons for individual Zone triggering. (Optional device) P/N. QHPB.
- 👍 The Controller can be triggered by a PIR (A passive infrared sensor) and used to individually trigger each zone. (Optional device) P/N. QHPIR.
- 👍 Phase /output isolation Switch's for each zone on front panel.
- 👍 Over temperature protection on each zone. ( Over Temp indication L.E.D's on front Panel). These show the over temperature status.

## How the Over temperature protection works.

A temperature sensor (J8 on PCB) is connected to each zone. This monitors the temperature inside the controller and if an over temperature is detected a over temperature L.E.D indicator marked 1,2 or 3 on the front panel will flash. This will indicate which zone 1,2 or 3 is experiencing an over temperature condition.

Once that happens the power to that zone is reduced to 50% automatically. (Note that is provided the setting is already greater than 50% of the full output). Once the temperature on the zone affected returns to normal working temperature the zone will return to previous output setting.

If over temperature continues for more 30 minutes the zone affected will shut off completely. The zone should be allowed to cool down , the remaining unaffected zones will continue to work normally.

When a zone shuts off this will be indicated by the appropriate L.E.D indicator on front panel being on fully (1,2 or 3).

To reset the shut off zone the controller unit requires power down at the On/Off switch to recover. If the over temperature issue persist you are advised to shut off the zone using the appropriate zone isolation switch on the front panel and call a fully qualified electrician.

### **L.E.D. Indicators on the PCB. (Not viewable with bottom half of lid in place)**

Green L.E.D ( D7) on top PCB (marked STAT) will flash to indicate the unit is running.

Red led (D7) on solid if the unit does not detect the phase from the bottom board.

L.E.D (D5) +5v Normally Green

L.E.D (D6) +12v Normally Green

***Warning: All Controllers should be installed by a fully qualified electrician.***

***Note : The controller will only output with a load attached. If you put a Volt meter across the outputs without a load connected it will not give a correct reading and will appear not to be outputting.***