

BENSON VARIANTE² TUBULAR HEATER VRX COMPLETE WITH WIELAND PLUG NEW FAN CONTROL/LIMIT STAT RETROFIT NATURAL GAS (G20 I₂H), PROPANE GAS (G31 I₃P)



WARNINGS

Benson equipment must be installed and maintained in accordance with the relevant provisions of the Gas Safety (Installations and Use) Regulations 1998 for gas fired products. Due account should also be taken of any obligations arising from the Health and Safety at Works Act 1974 or relevant codes of practice. In addition the installation must be carried out in accordance with the current IEE wiring regulations (BS 7671), BS 6896 (Industrial & Commercial) and any other relevant British Standards and Codes of Practice by a qualified installer. All external wiring MUST comply with the current IEE wiring regulations.

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Part No. 706090

The original Honeywell fan control/overheat limit thermostat is no longer available for the VRX range of warm air heaters.

This bulletin describes the parts required and method of fitting a replacement fan control and overheat limit thermostat to these heaters.

The functions of the original Honeywell controller will now operate from two separate components, a 110° C limit thermostat and a fan control thermostat. The new limit thermostat capillary fits into the original Honeywell sensing tube hole. The new fan control thermostat is fitted to the controls chassis and has a built in pre-heater which automatically controls the fan on a timed basis.

WARNING: Isolate both electrical and gas supplies before carrying out any work on this heater.

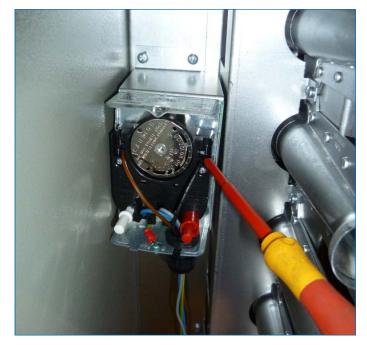
For VRX 40-490 a replacement fan control/limit thermostat kit part No.

- 33-67-986 will be required comprising of:
- 1 off 110° C overheat thermostat + bracket
- 1 off fan control thermostat + bracket
- 1 off capillary bracket
- 1 off cover plate
- 1 off each length of yellow, blue, brown and white cable 1 off 'P' clip
- 7 off No. 8 BZP self tappers
- 6 off red insulated 6.4mm female crimps (loose)
- 10 off miniature cable ties

1: Remove original Honeywell fan control/limit stat:

Remove single retaining screw securing the lid of the original fan/limit stat as shown.

Disconnect the five cables (black, brown, grey, blue and earth) by releasing the quick connectors with a screwdriver as shown. Remove the earth completely.



Remove mounting bracket retaining screws (model sizes 250 and above) as shown.

Note: On model sizes below 250, the original fan/limit stat is screwed directly to the casing (no bracket)



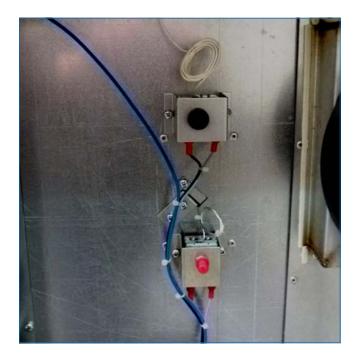


2: Fit new overheat thermostat:

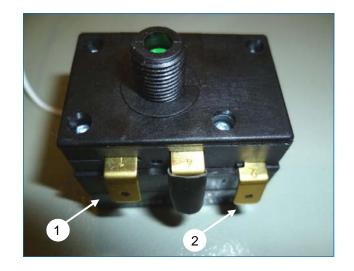
For models 12 to 60, position new 110° C thermostat and bracket assembly in a suitable position as shown and fix in position using the screws provided.



Models 72 and above have a secondary thermostat already fitted. Position the new overheat stat in a suitable position above.



Re-route the original grey and black cables to the new thermostat and connect grey to terminal 1 and black to terminal 2. (see photo for terminal positions)



3: Fit capillary:

Insert capillary bracket into existing fan/limit control hole. Mark and drill two new holes. Fix in position, but do not fit screws at this stage.



Fit 'P' clip to capillary tube as shown



Fit capillary tube fully into capillary bracket. Fix cover plate in position using screws provided into holes already drilled ensuring the capillary tube fits into the slot as shown.

Finally drill the two outer holes as shown and fit screws provided, the top screw securing the 'P' clip.



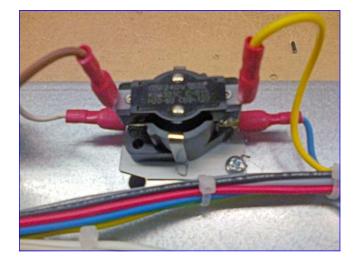
4: Fit new fan control:

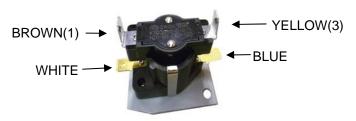
Looking at the rear of the replacement fan control thermostat mounting plate, measure the distance "D" shown in the picture.

Drill two holes distance "D" apart in a suitable clear area of the control panel base. (Control panel layouts vary depending on the heater size)

Fix in position as shown using the screw provided.

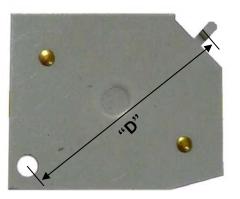
New fan control mounting plate rear view





Wire as follows:

- Shorten the original brown wire and connect to terminal 1 on fan control.
- Completely remove the blue cable which ran from the original Honeywell to terminal 9 on the inner terminal strip (NOT the outer installer terminal strip).
- Replace this with the NEW yellow cable supplied, connecting between terminal 3 on the new fan control and terminal 9 on the terminal strip.
- Connect new blue wire between terminal 2 on the inner terminal strip and right hand gold coloured spade terminal on the new fan control
- Connect new white wire between terminal 1 on the inner terminal strip and the left hand gold coloured spade terminal on the new fan control.





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