

Addendum.

BENSON  
HEATING



# BENSON PV & VR RANGE GAS CONVERSION




## 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.

This document contains information not present in the current operating and instruction manuals for the PV and VR range of heaters.

Conversion to Propane (G31) if required can be made by the following method :-

 The heater serial No. must be recorded so that a new propane data label can be produced and heater traceability can be maintained.

Ensure heater has sufficiently cooled before commencing any work.

- 1 Isolate electricity and gas supplies.
- 2 Undo the gas pipe connection
- 3 Remove gas manifold fixing screws.
- 4 Remove manifold and injector assembly from heater.
- 5 Remove natural gas injectors.
- 6 Ensure manifold is clean and orifices are not restricted.
- 7 Using appropriate sealant fit propane injectors to manifold, (***care should be taken not to over tighten***).
- 8 Replace manifold and injector assembly on heater.
- 9 Re connect gas pipe ensure all joints are gas tight.
- 10 Reconnect electricity and gas supplies.
- 11 Ensure sufficient gas pressure is available (37 Mbar).
- 12 Connect manometer on head pressure test point and adjust head pressure to correct setting.
- 13 Re-commission heater.
- 14 Fit new Propane data label.

## PV & VR RANGE GAS CONVERSION

Heaters are supplied ready for use with (G20) Natural Gas as standard unless specifically ordered as Propane (G31)

### VR G20 Natural Gas

Model	12	20	30	42	50	60	72	95	120	145
No of Injectors	3	4	6	8	10	12	6	8	10	12
Size mm	1.8	2.2	2.2	2.2	2.2	2.2	3.4	3.4	3.4	3.4
Head Pressure mbar	12.6	8.3	8.3	8.3	8.3	8.6	8.7	8.7	9.2	9.2

### VR G31 Propane Gas

Model	12	20	30	42	50	60	72	95	120	145
No of Injectors	3	4	6	8	10	12	6	8	10	12
Size mm	1.2	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0	2.0
Head Pressure mbar	21.3	29.2	29.2	29.2	29.2	29.2	25.5	25.5	25.5	25.5

### PV G20 Natural Gas

Model	30	50	72	95	120	145
No of Injectors	6	10	9	12	10	12
Size mm	2.2	2.2	3.0	3.0	3.4	3.4
Head Pressure mbar	8.3	8.3	6.8	7.0	9.2	9.2

### PV G31 Propane Gas

Model	30	50	72	95	120	145
No of Injectors	6	10	9	12	10	12
Size mm	1.3	1.3	1.6	1.6	2.0	2.0
Head Pressure mbar	29.2	29.2	28.7	28.7	25.5	25.5



Benson Heating Ludlow Road Knighton  
Powys LD7 1LP United Kingdom.

Telephone 01547 528534  
Facsimile 01547 520399  
Email [sales@bensonheating.co.uk](mailto:sales@bensonheating.co.uk)  
Website [www.bensonheating.co.uk](http://www.bensonheating.co.uk)



 The AmbiRad Group

Benson Heating Ltd is a registered trademark of AmbiRad Limited. Because of continuous product innovation, Benson Heating reserve the right to change product specification without due notice.