

INSTALLATION OF FLEXIBLE GAS SUPPLY HOSE TO RADIANT HEATERS

A flexible hose is installed to allow safe linear expansion of the heater without creating undue stress on the gas supply pipework. It is therefore important that it is installed as per these instructions. It is also important to ensure that expansion is taken up in the body of the flexible hose, & not on its attachment to the pipework.

1: This bulletin is intended to aid the installer in choosing the best position in which to fit the flexible gas supply hose to the Ambirad range of radiant tube heaters, including Nor-Ray-Vac.

It assumes that the heater and fixed gas supply to the isolating valve have been installed as described in the appropriate instruction manual. The installation layout described in this bulletin is the only method recommended by the institute of gas engineers, the hose manufacturer, & Ambirad Ltd. The procedure described in this bulletin should only be carried out by a qualified/competent gas engineer.

N.B. Following this procedure the hose connections should be checked for gas soundness using leak detection fluid or spray.

2: The flexible gas hose can be supplied in two sizes:

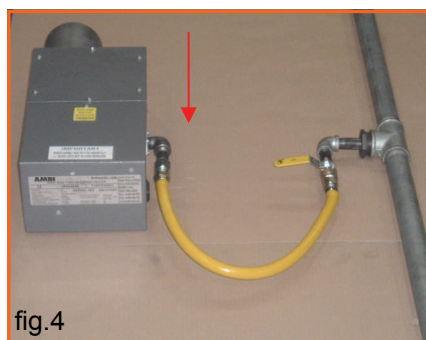
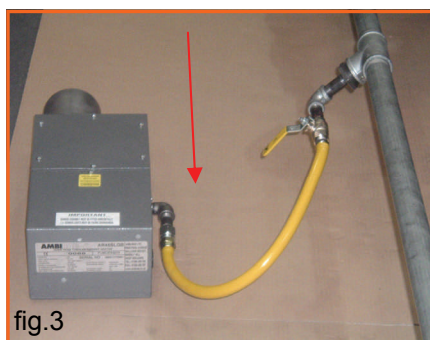
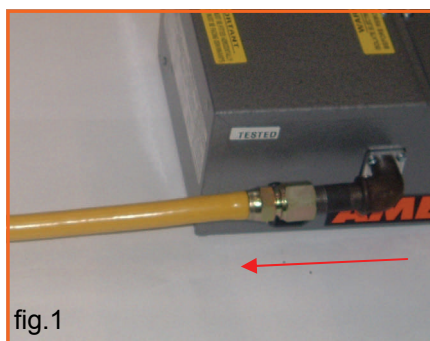
A: 1000mm long with ½" BSP male/female fittings. Ambirad part No. 6500-2

B: 600mm long with ½" BSP male/female fittings. Ambirad part No. 6500

Both hose assemblies are made to ISO 10380 1994 & are supplied with ½" BSP female cone seat adapters.

3: The cone seat adapter supplied on one end of the flexible gas hose provides a 'swivel' action, & must be fitted on the burner using a ½" BSP barrel nipple to provide ease of disconnection for future servicing. (fig1)

NB: Red arrows denote direction of expansion.



Depending on the specific installation, the flexible gas hose may be routed to the gas cock at any of the following angles in relation to the burner:

Vertical (fig.2)

45° (fig.3)

90° (fig.4)

Any other position in between these angles is acceptable.

Care must be taken to observe the minimum pipe bend diameter (minimum 250mm, maximum 350mm) & pipe expansion distance (minimum 30mm, maximum 70mm) as shown in fig.5. Maximum bend diameter for the 1000mm hose is 450mm.

N.B: The correct installation as shown will allow for approx 100mm of movement due to expansion.

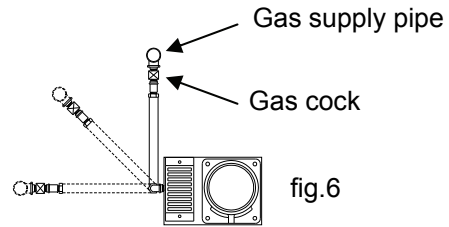
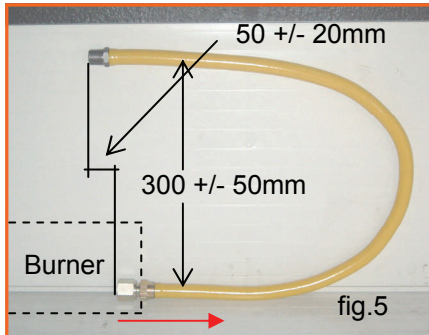
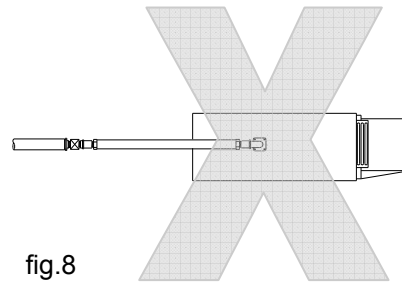
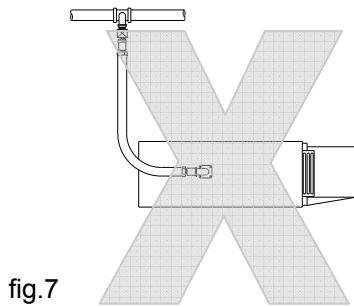


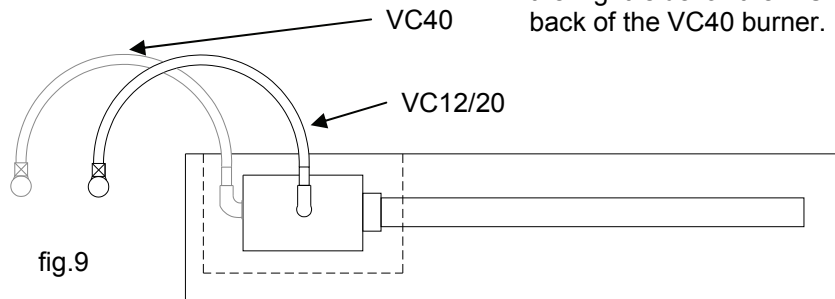
Fig.6 shows view on firing end of burner.



The methods shown in figs 7 & 8 are unacceptable, due to undue stress on the hose & fittings.

Cobra models

Fig.9 shows the methods to be used for the Cobra models, noting that the gas hose enters the right side of the VC12/20 burners, & the back of the VC40 burner.



Ambi-Rad Limited Fens Pool Avenue
 Brierley Hill West Midlands
 DY5 1QA United Kingdom
 Telephone 01384 489700
 Facsimile 01384 489707
 UK sales email sales@ambirad.co.uk
 Website www.ambirad.co.uk
 Database www.s-i-d.co.uk

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