The PGUH Range
Series 3

Users Instructions

WARNING: THIS APPLIANCE MUST BE EARTHED

£1.00 When supplied separately.

PGUH Range Issue 10 August 2000

1. Checks before lighting the Air Heater

The following preliminary checks should be made before lighting the heater(s)

a) Ensure that the ELECTRICAL supply to the heater is switched **OFF**.
b) Check that all warm air delivery outlets are open.
c) Check that the thermostat is set at **MAX**.
d) Check that the clock control is set to an **ON** period.
e) Check that any other controls are calling for heat.
f) Ensure that the Summer/Winter switch is in the Winter position.
g) Check that the overheat reset button has not operated.

2. Lighting the Air Heater

NOTE: On initial lighting of the heater(s), it may take some time to purge the internal pipework of air. If it is not possible to light the heater after several attempts contact the local service company.

2.1 Standard Models

2.1.1 Models PGUH 12 - 75. (SIT 820 NOVA MFC)

1. Press the knob of the multifunctional control *(Fig.1 - 1)* and rotate to **Pilot**.

2. Light the pilot flame by pressing the piezo unit button *(Fig 1 & 2 - 3)* several times keeping the mulifunctional control knob depressed. The pilot flame may be seen through the viewing port *(Fig. 1 & 2 - 4)*.
3. Once the pilot has been established continue pressing the control knob for approximately 30 seconds and then slowly release. The pilot should remain alight.

WARNING: Should the pilot be extinguished at any time, either intentionally or unintentionally, slightly depress the control knob and rotate clockwise to Off. Wait 3 minutes before attempting to relight the gas, then repeat steps 3-5 above.

If the unit will not light after four or five attempts then shut down the unit and call in a service engineer.

4. Slightly depress the control knob and turn to **On**.

5. Switch on the electricity supply at the isolator, and the main burners will light.
6. **SHUT OFF**

To interrupt all gas flow through the multifunctional control slightly depress the control knob and rotate clockwise to **Off**.

CAUTION

The re-start interlock device prevents the heater from re-igniting because the flame supervision device has interrupted the gas flow. After waiting 3 minutes the heater may be relit by following the previous instructions from 6.5.

2.1.3 Models PGUH 90 - 150. (SIT 820 NOVA MFC)

1. Follow steps 2.1.1.1 to 2.1.1.4 for the right hand side.
2. Follow steps 2.1.1.1 to 2.1.1.4 for the left hand side.
3. Switch on the electricity supply at the isolator and the main burners will light.
4. **SHUT OFF**

To interrupt all gas flow through the multifunctional controls slightly depress the control knobs and rotate clockwise to **Off**.

CAUTION

The re-start interlock device prevents the heater from re-igniting until the flame supervision device has interrupted the gas flow. After waiting 3 minutes the heater may be relit by following the previous instructions from 6.5.

2.2. Auto Ignition Units

2.2.1 All Models

1. Switch on the electrical supply at the isolator and the ignition sequence will commence. After a delay of approximately 30 seconds the ignition spark will be generated and the main gas valves energized. The burners will then light.

Note: On PGUH 90 - 150 units the left hand (viewed from the front) burner set will light first. Only when this burner set is lit will the right hand burner set begin its ignition seqence.

2. If the burners fail to light the control box will go to lockout and the lockout light on the low level remote reset will be illuminated. To restart the ignition sequence depress the reset button on the low level reset.

If the unit will not light after four or five attempts then shutdown the unit and call in a service engineer.

3. To Shut Down the Air Heater

3.1 Standard Models

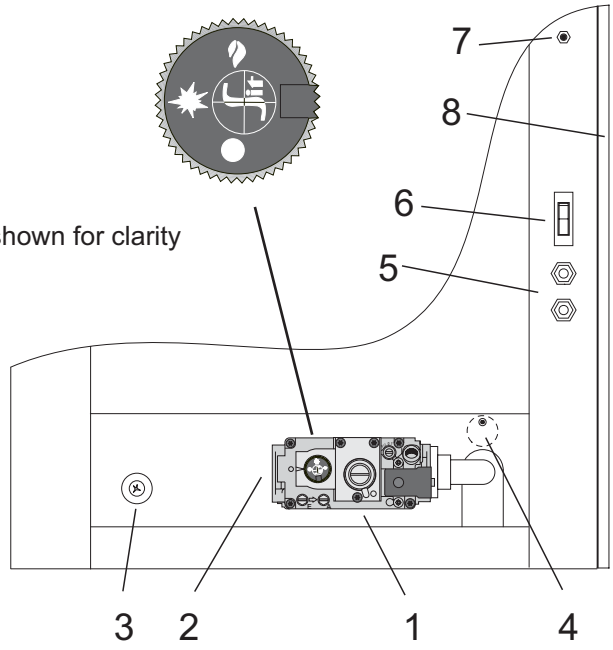
3.1.1 Models PGUH 12 - 75 inc.

1. For Short Periods: Turn the room thermostat to the **OFF** or lowest setting.
2. For Long Periods: Slightly depress the control knob and rotate clockwise to **OFF**. This will extinguish the pilot and the main burner. Wait 5 minutes and then turn **OFF** the electricity supply at the isolator.

Fig. 1 Controls Location PGUH 12

Viewed from rear of unit

Pilot tube, thermocouple and thermocouple interrupter leads not shown for clarity



1) SIT 820 Nova M.F.C.
2) Gas connection (Rp½).
3) Piezo spark generator.
4) Viewing port.
5) Cable entry points.
6) Summer / Winter switch.
7) Limit Thermostat reset button.
8) Side panel (For access to electical section).

3.1.3 Models PGUH 90 - 150

1. Follow step 3.1.1.1 or complete step 3.1.1.2 for each burner.

3.2 Auto Ignition Models

1. For Short Periods: Turn the room thermostat to the **OFF** or lowest setting.
2. For Long Periods: Complete step 3.2.1 above. Wait 5 minutes and then turn **OFF** electrical supply at the isolator.

4. Description of Operation

Important: All heaters must be controlled by the fitted external controls and not by use of the main switch in the electrical supply to the heater.

4.1 Standard Units

With the permanent pilot(s) alight the main burners will be switched on and off by the fitted external controls e.g. Timeclock, room thermostat etc. Approximately 2 minutes after the main burners light the heater fan will be automatically started. When the external controls are satisfied the main burners will be turned off and approximately 2 - 3 minutes later the heater fan will be automatically stopped.

4.2 Automatic Ignition Units

The ignition sequence will commence each time that the external controls e.g. Timeclock, room thermostat etc. call for heat. Approximately 2 minutes after the main burners light the heater fan will be automatically started. When the external controls are satisfied the main burners will be turned off and approximately 2 - 3 minutes later the heater fan will be automatically stopped.

4.3 High / Lo & Modulating Units

When the main burners are alight the heat output will be controlled either to high fire or low fire or, in the case of modulating units, to any point between high and low fire; depending on the requirements of the space being heated and the external controls fitted.

4.4 Summer / Winter Modes

Certain types of external controls will provide for two modes of operation i.e.

Summer: The heater fan alone will run at the dictate of the external controls to provide air movement.

Winter: The heater will operate normally. The Summer / Winter switch on the rear of the heater (if fitted) will, when in the Summer position, allow for continuous operation of the heater fan.

5. Maintenance

Regular servicing is essential to maintain efficient, reliable and safe operation of the heater. Users are strongly recommended to have the heater serviced by a qualified person at least annually and preferably at the end of the heating season.

IMPORTANT

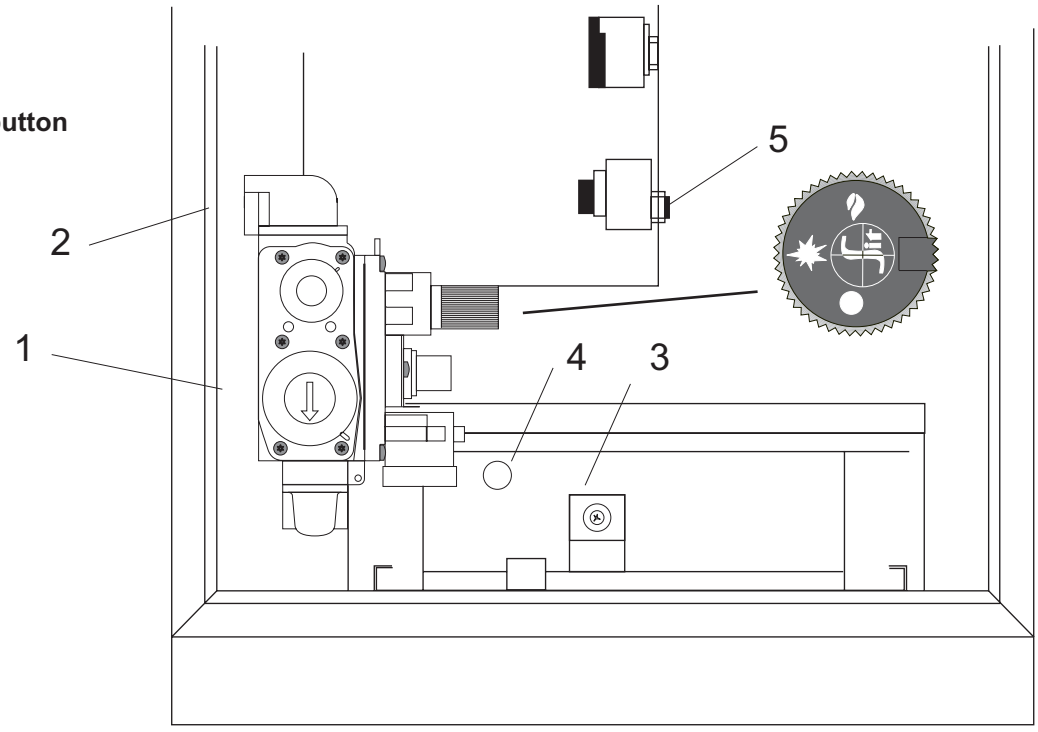
Free access must be maintained to and around the heater for servicing purposes and the air supply to the heater must not be restricted in any way. Combustible materials must not be stored adjacent to the heater.

If at any time a gas leak is suspected turn OFF the gas supply

Fig. 2 Controls Location PGUH 15 - 150

Pilot tube, thermocouple and thermocouple interrupter leads not shown for clarity

1) SIT 820 Nova M.F.C.
2) Gas connection (Rp¾).
3) Piezo spark generator.
4) Viewing port.
5) Limit Thermostat reset button



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