



AMBI-RAD
Models STA, STB, STE
Fan-Assisted, Balanced-Flue,
Gas-Fired Unit Heaters

USER FORM WA/019/0697

USER INSTRUCTIONS

Hang This Near Your Heater

IMPORTANT: For safe and satisfactory operation, these instructions should be read and fully understood.

GENERAL:

For continued safe and efficient operation, this heater should be serviced regularly by a competent service engineer. A full after sales service is available from AMBI-RAD. Read the warranty and ensure that the heater is operated within the terms of the warranty. Maintain free access to the heater for servicing and do not restrict the air supply to the heater.

FOR YOUR SAFETY:

- **Ensure that the heater is properly earthed.**
- **If a gas leak is suspected, turn OFF the gas supply and contact the gas supplier immediately.**
- **DO NOT USE A NAKED FLAME to inspect for gas leaks.**

TO TURN THE HEATER "ON":

- 1) Turn "ON" the gas supply and the electrical supply to the heater.
- 2) If a clock control or a summer/winter switch have been fitted, turn to "ON".
- 3) Set the room temperature control to above the ambient temperature.
- 4) An automatic sequence is started to ignite the main burners.
- 5) Adjust the room temperature control to the required operating temperature. The heater will operate automatically to maintain the required temperature setting.

NOTES:

- On initial start-up, several attempts may be required to remove the air from the multifunctional control valve.
- If the heater will not "start" on initial start up, the ignition controller may be in lockout position. Depress the reset button.
- When measuring gas pressure, do not remove screw. Loosen enough to allow gas pressure to register.

TO SHUT DOWN THE HEATER FOR SHORT PERIOD:

Adjust the room temperature control to its lowest temperature or "OFF". The fan will continue to run for a short period to cool the heat exchanger.

WARNING: The electrical isolator should only be used in an emergency and should not be used for closing down the main burner, as it switches off the fan prematurely and may damage the heat exchanger, invalidating the warranty.

TO SHUT DOWN THE HEATER FOR EXTENDED PERIOD:

- 1) Adjust the room temperature control to its lowest temperature or "OFF".
- 2) After the fan has stopped, turn "OFF" the gas supply and the electrical supply.

NORMAL OPERATING SEQUENCE:

- 1) Room temperature control senses need for heat.
- 2) The venter motor is energised.
- 3) Pressure-sensitive combustion air proving switch closes and a 30 second pre-purge is initiated.
- 4) Pilot ignites and is proven. Main burners are ignited.
- 5) In approximately 45 seconds, the fan control turns on the fan.
- 6) Room temperature control senses sufficient heat.
- 7) Main gas valve is de-energised, main burners are extinguished, and the venter motor is de-energised.
- 8) After approximately 120 seconds, the fan control switch turns off the fan.

OPERATION NOTE: If a momentary interruption of the electrical power or gas supply occurs during operation causing the burner to extinguish, the safety switch will open the main valve and re-initiate the complete operating sequence. If the pilot flame is not established within 50 seconds, the ignition controller locks out and must be manually reset. The red light on the rear panel of the heater indicates lockout.

NOTE: If the first reset is not successful, wait 15 seconds before resetting the ignitor.

MAINTENANCE AND SERVICE:

To ensure safe and efficient operation, this heater should be serviced at least annually. It is strongly recommended that the installing heating engineer or AMBI-RAD Service Division be contacted to provide the necessary service. Retain on file a copy of the service instructions for this heater.

MAINTAIN THESE CLEARANCES

Required Clearances for all Models and Sizes of STSeries Heaters	Top	Sides of the Heater		Bottom of the Heater	
		Control Side	Side Opposite Control Side	To Combustibles	To Non-Combustibles
	152 mm	Service Clearance Required - See Note	152 mm	152 mm	0 mm

NOTE: Service Clearance for Control Side is the width of the unit plus 152 mm.
(This service clearance is required in order to remove the drawer-type burner rack.)

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