

High Performance, Low Cost Heating for Industrial and Commercial Premises**Cabinet Construction**

Robustly constructed from electro zinc coated mild steel.

Each heater has an externally mounted flue spigot which allows for simple flue connection and removable access to the heat exchanger surfaces for maintenance purposes.

Heat Exchanger

The heat transfer unit has been designed to give an efficient and extended working life. Each model comprises of a combustion chamber and a tubular design heat exchanger.

Burner

All blown gas or pressure jet oil fired heaters are fitted with a burner carefully selected from the modern Riello range of fully automatic burners. The appropriate burner is matched to each heater.

Method of Operation

A heater will operate with the time switch or frost thermostat in the 'on' position. When either of these conditions are satisfied, the operational sequence will commence when the room thermostat calls for heat. This completes the control loop for the burner and commences its start sequence under the direction of the flame monitoring system.

When a flame is established and the chamber is warmed to a predetermined level the main air fan is activated by the fan thermostat. The heater will continue to operate until either the room thermostat, the time switch or the frost thermostat switches to the 'off' position, at which point the burner will shut down. The heat exchanger assembly is cooled to the correct level according to the settings of the fan thermostat. The heater will recommence another cycle when the control devices again call for heat.

Warm Air Distribution

Each heater is fitted with a forward curved blade centrifugal fan. Fans on models 100-300 are driven by an integral direct drive motor. All other models are driven via a V-belt system. Nozzled heaters are supplied with independent discharge heads, which can be fully rotated and are fitted with horizontal louvres for lateral air direction.

Heaters for ducted applications are supplied with a duct spigot.

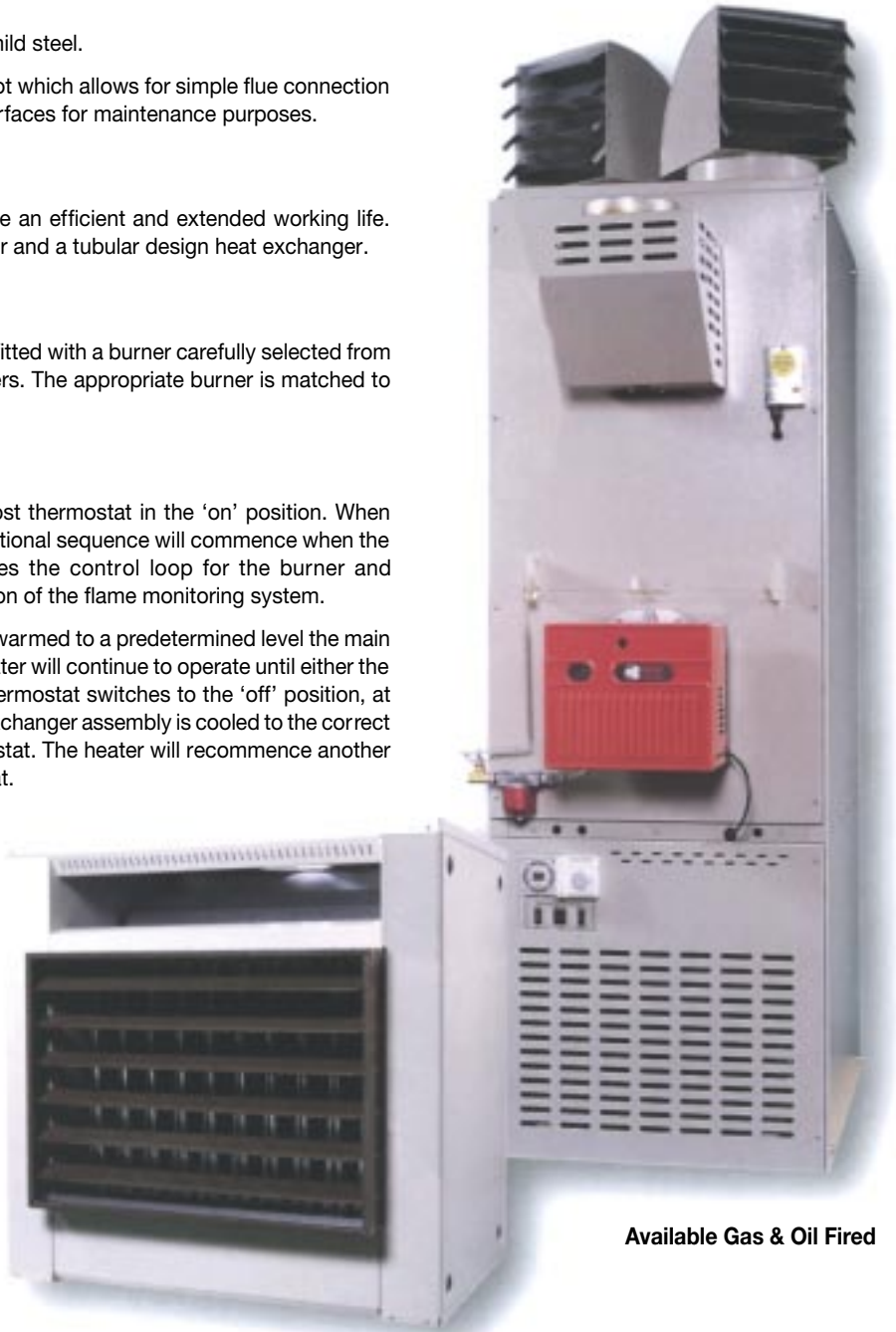
Control System

Each heater is supplied ready for automatic operation. Standard controls include a seven day time switch, room thermostat, frost protection and a resettable safety overheat thermostat designed to prohibit burner operation should airflow be diminished or interrupted. All heaters are supplied with controls prewired and fitted as standard.

Fuel Supply

Oil fired Cabinet heaters are designed to operate firing light distillate oils having a maximum viscosity of 4.5 c.St (1.30E) at 20° C (Class D) (35 sec Redwood No.1 at 100° F). Gas fired heaters are designed to operate with natural gas.

Vertical cabinets (VN/VD) - suitable for floor mounting applications, oil or gas firing, with outputs from 100,000 to 1,000,000 Btu/h (29-293 kW).

**Available Gas & Oil Fired**