



Euroventer 90-6

The Reznor Euroventer is designed to simplify the flueing of Reznor gas fired air heaters for installation where long horizontal runs of flue cannot be avoided or where it is impractical to install a flue to the top of a building.

Using a Euroventer for appliances with heat inputs greater than 35 kW means that a reduction of flue diameter is possible, thus providing material cost savings. The resistance imposed by the Euroventer when fitted to natural draught flues reduces the amount of natural ventilation which takes place via open flues, resulting in energy savings.

Construction details: The motor is continuously rated at 230/240V with thermal overload protection and contains sealed for life bearings.

Terminals are supplied ready for inter-connection. Proof of air flow is monitored by a differential pressure control, a relay completes an electrical circuit to the appliance thereafter, the burner operates in the conventional manner.

The fan is directly driven, the entire assembly is housed in a corrosion resistant aluminised steel casing, finished self colour.

Control: The Euroventer is controlled by the devices which would normally switch on the burner, i.e room thermostat or time control.

The Euroventer must be proven in the NO airflow condition before a safe start-up can commence. When the fan runs and the air flow proving control is satisfied a relay changes over to provide power to the gas burner control/s.

Reznor® *THE NAME FOR WARM AIR*

Application: CAUTION Euroventers may only be installed with the fan motor axis and the top of the housing in the horizontal plane.

Euroventers are designed primarily to be used with Reznor open flued air heaters. Adaptors for the conversion of flue sockets of the various models are supplied with the Euroventer when they are ordered with appliances.

Airflow restriction baffles are supplied to adjust the Euroventer for the different air volumes they are required to handle. Instructions on how to fit them are contained in the installation instructions included with the Euroventer.

Unless gasket sealed flues are installed between the Euroventer and the outer element of the building structure, the Euroventer must be installed so that the flue system within the building is maintained at negative pressure relative to the ambient air within the building.

To ignore this advice is in breach of the Reznor appliance CE certification and to do so could constitute a hazard.

Flues: Long runs of flue can result in condensation being formed. This may be prevented by the use of twin-wall or insulated flues. If condensation is likely to occur, then provision for it to be drained away from the flue prior to it reaching the Euroventer must be made.

NOTE: Condensation drains must not be constructed from copper or copper based alloys.

Flues must be fitted with a terminal device so as to prevent the ingress of foreign matter, leaves, birds etc.

Operation: The sequence of operation with the Euroventer is as follows:

1. Appliance external control calls for heat and starts fan motor;
2. The airflow proving device moves to the airflow proved position;
3. A circuit to the burner gas control is made via a relay;
4. If the air heater is fitted with an automatic ignition feature its start programme is initiated. If the air heater is fitted with a thermo-electric flame failure system then the burner will light from the pilot flame.

NOTE: Automatic ignition systems have an in-built safety time whereby the flue fan will run for approximately 20 seconds. This is called the prepurge time.

5. When the external controls are satisfied and switch to off, power is removed from both the burner control and the Euroventer.
6. In the event of Euroventer airflow failure for any reason during startup or normal operation safe shut down of the burner will result.

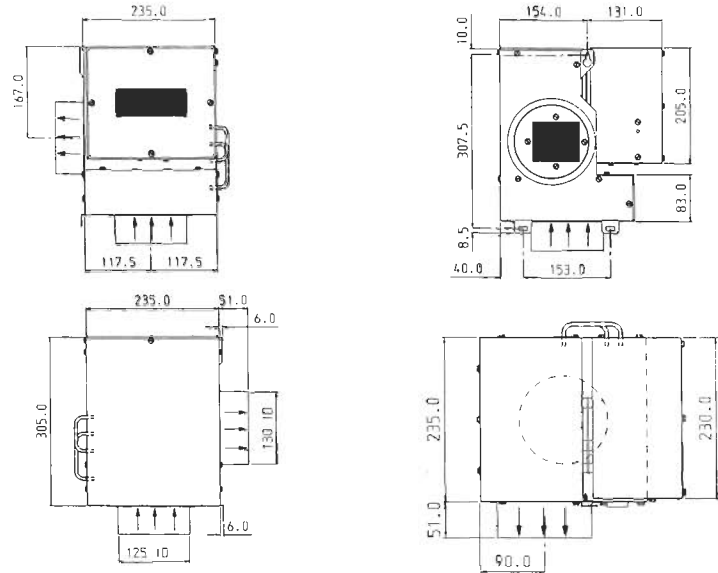
Restrictions on use: Euroventers must only be used when;

1. Ambient air temperature is below 50°C;
2. Ambient air pressure in the installed place is neutral.
3. When the fan motor axis and the top of the casing are installed in the horizontal plane;
4. When fitted with the appropriate restriction baffle;
5. When wired in accordance with the appropriate Reznor wiring diagram.

NOTE: As with Reznor air heaters the use of Euroventers in atmospheres that contain substances e.g chlorides such as trichloroethylene degreasers, dry cleaning fluids, vapours, etc. and sulphurs in the form of oil mists, will cause corrosion and premature deterioration of the appliance motor. Warranty is voided when equipment is used in such conditions.

DIMENSIONS

Fig. 1



Notes: Inlet collar; Ø 125 mm ID Flue collar; Ø 130 mm ID Fixing holes; Ø 7.0 mm
Net weight: 8.0 kg Mass (shipping) 0.034 m³

INSTALLATION SUGGESTIONS

Fig. 2

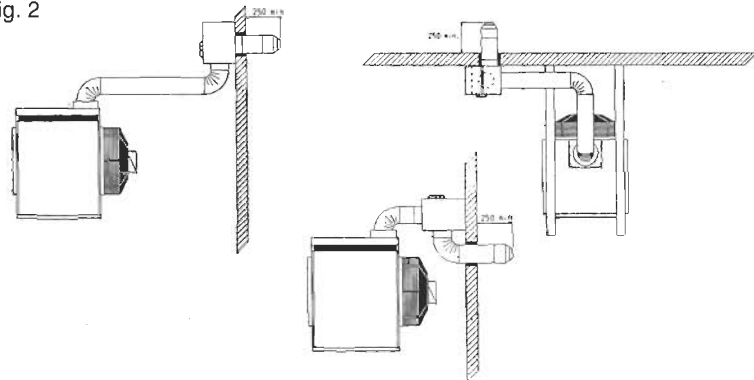
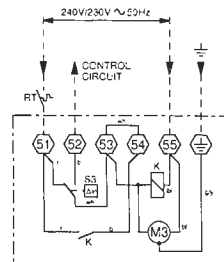


Table 1. Maximum Flue horizontal lengths avoiding condensation

Appliance model	UL1011	UL1020	Reflex 25 X1025	Reflex30 X1030	Reflex 35 X1035	Reflex 45 X1045	Reflex 55 X1055	Reflex 75 X1075	Reflex 95 X1095
ø100mm	10	14	-	10	14	10	7	-	-
ø135mm	10	14	14	14	14	10	10	10	10
ø150mm	-	-	12	16	14	10	13	10	12

Fig 3. Technical Data & Functional Wiring Diagram

Maximum flue gas temperature; 200°C
Ambient operating temperature; -11<60°C
Voltage; 230/240 1~N 50 Hz
Fan speed; 2800 rpm
Motor rating; 0.14
Current rating; 0.6 A
IP class; IP 21



Legend

- RT** - Room thermostat
- ΔP** - Airflow switch
- K3** - Switching relay
- M3** - Euroventer fan motor
- L** - Supply line
- N** - Supply neutral

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