EUROPAK 2000
& RPV 2000
INDIRECT GAS FIRED
WARM AIR
HEATING SYSTEMS

THE NAME FOR WARM AIR,
Reznor RPV 2000 and EuroPak 2000 units are fully automatic gas fired heaters designed for larger industrial and commercial applications, particularly where combined heating and ventilation is required.

At the heart of each heater module is the perfectly co-ordinated combination of heat exchanger and burner, developed and patented by Reznor, that has set the standard for efficiency, reliability and operational life. Thermal efficiencies of up to 91% based on net calorific value.

Units are simple to install they are supplied complete and are mounted on a base frame. An integral fan assisted flue exhausts the products of combustion and at the same time induces a precise amount of combustion air.

External weatherproof units have a factory fitted flue outlet and combustion air inlet and require only connection to gas and electrical supplies. Internal units need connection to a suitable flue system.

A comprehensive range of options allows the units to be tailor made to suit a wide range of applications.

Reznor microprocessor energy controls are available to complement the energy efficient heaters and optimise fuel economy.

RPV 2000

RPV 2000 heaters are designed for outdoor installation, RPVE units are supplied with an insulated downturn discharge cabinet for rooftop applications using 100% recirculated air. For applications using full fresh air or combined fresh and recirculation air, RPVJ units are provided with an additional air intake complete with water separator.

The units are also available without the downturn cabinet to suit different external applications.

RPV 2000 units are available in seven sizes with heat outputs between 23 and 95kW and airflows from 1350 to 12000m³/h.
EUROPAK 2000

EuroPak units provide higher capacity heat outputs and airflows for larger applications. The units comprise modular components assembled onto a frame suitable for base mounting or suspension. They are delivered ready to install and require only connection to a gas and electrical supply and in the case of indoor units, a suitable flue system.

EuroPak units are tailor made from separate elements to provide the required configuration of system functions to suit individual specifications. Appliances are compact, reliable, simple to install, energy efficient and require minimal maintenance.

One or more heating modules may be incorporated to give heat outputs between 91 and 378kW. A wide range of drives and motors provide airflow capacities between 8500 to 36000 m³/h at external pressures up to 400 Pascals.

EuroPak PV units are for indoor installation and have a power vented combustion system with fan assisted flue. They are extremely versatile and are used as room sealed balanced flue appliances, having the option of vertical roof or horizontal wall outlets. The flues may be extended by up to nine metres between the heater and the balanced flue outlet.

EuroPak RPV units are for outdoor installation and are supplied on a base frame and with a flue outlet terminal and combustion air inlet. Their low profile and neat flue termination makes the units ideal for applications where aesthetics are important.

STANDARD FEATURES

- Units suitable for natural gas
- Stainless Steel Heat Exchanger (AISI 409)
- Single Stage Burner Control
- Automatic Ignition
- Insulated Cabinets
- Fan Assisted Flue
- Galvanised Base Frame
- Constant Air Volume

OPTIONAL ITEMS

- Units suitable for LPG
- Stainless Steel Heat Exchanger (AISI 316)
- Two Stage or Fully Modulating Control
- Filters
- Dirty Filter Indication
- Airflow Proving Indication
- Roof Curb
- Variable Air Volume
- Fresh Air/Return Air Dampers
- Manual two position or motorised modulating damper actuators
- Low NOx units
RPV 2000 AND EUROPAK 2000 UNITS

SPECIFICATION RPV 2000

CABINETS
Cabinets are manufactured from pre-painted galvanised steel and are mounted on a galvanised steel base frame. Fan cabinets and downturn cabinets are fully insulated. RPVJ models are supplied with a fresh air intake hood complete with a water separator.

HEAT EXCHANGER
Patented Thermocore venturi tube assembly with precision matched burners provides optimum efficiency and enhanced operational life.

Standard units are fitted with heat exchangers manufactured from stainless steel (AISI 409).

Where chlorinated vapours or certain other contaminants may be present 316 grade stainless steel heat exchangers must be used, consult Reznor for such applications.

GAS & SAFETY CONTROLS
All units are tested and certified to current European standards and are CE marked.

A multifunction gas control valve complete with dual shut off valves and a fully automatic ignition system provides full safety monitoring of the heater operation. Automatic ignition provides improved reliability.

Fan operation is controlled by an integral fan control thermostat, a constant fan option may be specified for ventilation operations. A limit thermostat monitors the operation of the heaters and shuts down the heater in the event of overheating or air flow failure. For additional safety all Reznor units are fitted with dual safety limit controls.

AIR HANDLING
Fan sections are fitted with double inlet forward curved centrifugal blowers and a belt drive with an adjustable pulley fitted to the motor to allow small on-site adjustments to be made. Motors may be single or three phase depending on the duty requirements up to 400Pa resistance.

INSTALLATION
Installation must be carried out by a CORGI registered installer in accordance with the manufacturers instructions.

Standard RPVE and RPVJ units are supplied with downturn discharge cabinets (complete with duct spigot) for "rooftop" installation. For alternative installations where a duct outlet spigot is required, units should be ordered "without downturn cabinet".

The units are provided complete with an integral fan assisted flue outlet terminal and combustion air inlet grills. The flue outlet, air inlet and controls access are supplied as standard on the left hand side (LHS) (viewed in direction of airflow) for opposite handed units specify "RHS Controls".

A gas isolation valve must be fitted adjacent to each unit. An electrical isolator is also required but the electrical supply to the units should not be switched off except for maintenance. Controls must be wired to the appropriate time and temperature terminals and must not switch the main electrical supply otherwise the control sequence of the heater will be affected.

RPV 2000 TECHNICAL DATA

<table>
<thead>
<tr>
<th>MODEL</th>
<th>RPV 2025</th>
<th>RPV 2030</th>
<th>RPV 2035</th>
<th>RPV 2045</th>
<th>RPV 2055</th>
<th>RPV 2075</th>
<th>RPV 2095</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat output kW</td>
<td>22.8</td>
<td>27.8</td>
<td>33.7</td>
<td>39.4</td>
<td>49.9</td>
<td>68.3</td>
<td>91.0</td>
</tr>
<tr>
<td>Gas consumption (1)</td>
<td>Nat. gas G20 m³/h</td>
<td>2.75</td>
<td>3.36</td>
<td>4.1</td>
<td>4.76</td>
<td>6.1</td>
<td>8.3</td>
</tr>
<tr>
<td></td>
<td>Propane G31 kg/h</td>
<td>2.06</td>
<td>2.52</td>
<td>3.05</td>
<td>3.56</td>
<td>4.51</td>
<td>6.18</td>
</tr>
<tr>
<td></td>
<td>Butane G30 kg/h</td>
<td>2.1</td>
<td>2.6</td>
<td>3.12</td>
<td>3.64</td>
<td>4.61</td>
<td>6.31</td>
</tr>
<tr>
<td>Gas connection (2)</td>
<td>Rc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airvolume @ 15°C (m³/h)</td>
<td>min</td>
<td>1350</td>
<td>1650</td>
<td>2000</td>
<td>2300</td>
<td>2900</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>max</td>
<td>3000</td>
<td>4000</td>
<td>5000</td>
<td>5000</td>
<td>7200</td>
<td>9000</td>
</tr>
<tr>
<td>Fan motor rating (kW)</td>
<td>min</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.18</td>
<td>0.25</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td>max</td>
<td>1.1</td>
<td>1.1</td>
<td>1.5</td>
<td>1.5</td>
<td>2.2</td>
<td>3</td>
</tr>
<tr>
<td>Total electrical rating kW</td>
<td>Motor rating plus 0.15kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approx weight RPVE kg</td>
<td>216</td>
<td>256</td>
<td>290</td>
<td>290</td>
<td>319</td>
<td>389</td>
<td>476</td>
</tr>
<tr>
<td></td>
<td>RPVJ kg</td>
<td>264</td>
<td>305</td>
<td>341</td>
<td>341</td>
<td>373</td>
<td>448</td>
</tr>
</tbody>
</table>

APPLIANCES WITH HIGHER EFFICIENCY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>RPV 2026</th>
<th>RPV 2031</th>
<th>RPV 2036</th>
<th>RPV 2046</th>
<th>RPV 2056</th>
<th>RPV 2076</th>
<th>RPV 2096</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat output kW</td>
<td>23.7</td>
<td>28.8</td>
<td>35</td>
<td>41</td>
<td>51.9</td>
<td>71</td>
<td>94.6</td>
</tr>
</tbody>
</table>
SPECIFICATION EUROPAK

CABINETS
All cabinets are manufactured from pre-painted galvanised steel and mounted on a galvanised steel base frame. Duct connections can be fitted as indicated on the drawings for all appliance air inlets and outlets. Damper requirements must be specified at the time of ordering stating location rear (R) bottom (B) or top (T) as shown in the ‘Dimension Data’ drawings.

FAN SECTION
Fan sections consist of 2 or 4 forward curved double inlet centrifugal fans connected to a common drive system. An adjustable pulley is fitted to the motor to enable small changes in fan speed to be made to simplify on site balancing. Two speed motors are available for variable volume air supply or exhaust.

Integral panel filters may be fitted within the fan cabinet for supply air sections fitted with motor sizes up to 3Kw, for units with larger fan motors a separate filter cabinet will be required.

An optional air flow proving indicator may be fitted to supply and exhaust fan sections.

GAS FIRED HEATING SECTION
Indirect gas fired heating sections comprise one, two or four heat exchange modules as a single section, patented Thermocoore venturi tube heat exchanger provides optimum efficiency and enhanced operational life.

Standard units are fitted with heat exchangers manufactured from stainless steel (AISI 409). Where chlorinated vapours of certain other contaminants may be present 316 grade stainless steel heat exchangers must be used, consult Reznor for such applications.

Units are tested and certified to current European standards and are CE marked.

A multifunction gas control valve complete with dual shut off valves and a fully automatic ignition system provides full safety monitoring to each heater module.

Fan operation may be controlled by an integral fan control thermostat, or a constant fan operation may be specified for ventilation applications.

A limit thermostat monitors the operation of the heaters and shuts down the heater in the event of overheating or air flow failure. For additional safety all units are fitted with dual safety limit controls.

FILTER SECTIONS
Filter sections are supplied complete with in-built filter racks. Dirty filter indication may be fitted as an optional item.

DISCHARGE/INTAKE SECTION
Discharge and intake sections are fully insulated and supplied complete with duct spigot.

MIXING BOX
Dampers may be fitted to various sections as shown in the drawings or, where the unit configuration requires, a separate mixing box section may be added.

Twin dampers i.e. Top and Rear or Bottom and Rear may be operated from a single damper actuator and linkage. Where dampers are located Top and Bottom then two damper actuators are required.

Dampers may be manually controlled or fitted with two position or modulating damper motors.

INSTALLATION
Installation must be carried out by a CORGI registered installer in accordance with the manufacturers instructions.

EuroPak PV units (indoor) require connection to a suitable room sealed balanced flue system. Flues may be taken vertically through the roof or horizontally through the wall, balanced flues provide both the flue outlet and combustion air inlet. Flues may be extended by up to 9 metres from the heater to the balanced flue outlet, 1.5 metres should be deducted for each 90° bend. EuroPak RPV (external) units are provided complete with an integral gas assisted flue outlet terminal and combustion air inlet grille.

The flue outlet, air inlet and controls access are supplied as standard on the left hand side (LHS) (viewed in direction of airflow) for opposite ventilation applications. A gas isolation valve must be fitted adjacent to each unit. An electrical isolator is also required but the electrical supply to the units should not be switched off except for maintenance.

APPLIANCES WITH HIGHER EFFICIENCY

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EUROPAK 2095-10</th>
<th>EUROPAK 2095-20</th>
<th>EUROPAK 2095-11</th>
<th>EUROPAK 2095-22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat output kW</td>
<td>91</td>
<td>182</td>
<td>182</td>
<td>364</td>
</tr>
<tr>
<td>Gas consumption (1) Nat. gas G20 m³/h</td>
<td>11</td>
<td>22</td>
<td>22</td>
<td>44</td>
</tr>
<tr>
<td>Propane G31 kg/h</td>
<td>8.25</td>
<td>16.5</td>
<td>16.5</td>
<td>33</td>
</tr>
<tr>
<td>Butane G30 kg/h</td>
<td>8.42</td>
<td>16.84</td>
<td>16.84</td>
<td>33.68</td>
</tr>
<tr>
<td>Gas connection (2) Rc</td>
<td>3/4</td>
<td>1 1/4</td>
<td>1 1/4</td>
<td>1 1/4</td>
</tr>
<tr>
<td>Airvolume @ 15°C min m³/h</td>
<td>8500</td>
<td>10000</td>
<td>16000</td>
<td>20000</td>
</tr>
<tr>
<td>max m³/h</td>
<td>16000</td>
<td>16000</td>
<td>32000</td>
<td>32000</td>
</tr>
<tr>
<td>Fan motor rating min kW</td>
<td>1.1</td>
<td>1.1</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>max kW</td>
<td>5.5</td>
<td>7.5</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Flue fan rating kW</td>
<td>0.15</td>
<td>0.3</td>
<td>0.3</td>
<td>0.6</td>
</tr>
<tr>
<td>Approx weight Basic internal unit kg</td>
<td>450</td>
<td>700</td>
<td>850</td>
<td>1300</td>
</tr>
<tr>
<td>Basic external unit kg</td>
<td>500</td>
<td>750</td>
<td>950</td>
<td>1400</td>
</tr>
</tbody>
</table>

Unit shown: Europak RPV 2095-10 with RHS controls
### RPV 2000 AND EUROPATK 2000 UNITS

#### RPV 2000 DIMENSION DATA

#### RPVE (WITHOUT DOWNTURN CABINET)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>RPV</th>
<th>RPV</th>
<th>RPV</th>
<th>RPV</th>
<th>RPV</th>
<th>RPV</th>
<th>RPV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25/26</td>
<td>30/31</td>
<td>35/36</td>
<td>45/46</td>
<td>55/56</td>
<td>75/76</td>
<td>95/96</td>
</tr>
<tr>
<td>Cabinet width</td>
<td>A</td>
<td>520</td>
<td>590</td>
<td>730</td>
<td>730</td>
<td>870</td>
<td>1080</td>
</tr>
<tr>
<td>Duct outlet</td>
<td>B</td>
<td>370</td>
<td>440</td>
<td>580</td>
<td>580</td>
<td>720</td>
<td>930</td>
</tr>
<tr>
<td>Overall width with base frame</td>
<td>C</td>
<td>558</td>
<td>628</td>
<td>768</td>
<td>768</td>
<td>908</td>
<td>1118</td>
</tr>
</tbody>
</table>

All dimensions in mm.
EUROPAK DIMENSION DATA

HEATING & BLOWER SECTIONS - PLAN VIEW

INDOOR PV 2000

Notes: High efficiency models 2096 have same dimensions. All dimensions in mm.
Pictorial arrangement only: please contact Reznor technical for actual product drawings.
Company Standards and Services

All Reznor products are tested and approved to CE standards.
Reznor UK Ltd. is assessed to BS EN ISO 9002:1994 Quality Assurance.

Reznor offers a design service to its customers; including budget schemes,
on site technical support and a comprehensive after-sales service package.