The Rapid1000 high capacity incinerator is an ideal solution to batch loading of solid waste. Having a 3000kg loading capacity and reinforced loading chamber enables even large carcasses to be easily loaded. Designed for easy and fast deployment for static installation alongside mobile options. Providing essential support to maintaining biosecurity.

Built to rapidly handle a wide range of solid waste able to achieve a burn rate of up to 500kg to 1000/hr. A highly robust and thermally efficient solution benefiting from an advanced burn chamber to ensure a smooth and equal burn. Multiple sub chamber doors allow rapid de-ashing during and after the incineration process has been completed.

**Primary Chamber**
- Fully insulated internal refractory lining, constructed from high grade refractory brick ensuring a self-supporting, interlocked arrangement.
- Fully interlocked, manually operated, access door.
- Waste ignition burner, temperature controlled on-off, complete with internal air fans.
- Grated hearth combustion burner, temperature controlled on-off, complete with internal air fans.
- Secondary combustion burner air fans with automatically controlled distribution to their designated area.
- One temperature sensor mounting points.

**Secondary Chamber**
- Fully insulated internal refractory lining. Constructed from high grade low thermal mass insulation.
- Temperature controlled Secondary chamber burnout burner with automatic on-off control, complete with internal air fans.
- Integrated combustion burner air fans automatically controlling distribution to designated areas.
- Temperature sensor mounting point at the top of the chamber, ensuring the chamber reaches the required 850°C minimum, with a 2 second retention time.

### Machine Specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>External L x W x H (mm)</td>
<td>8206 x 2325 x 2273/6470</td>
</tr>
<tr>
<td>Internal Upper Chamber L x W x H (mm)</td>
<td>3710 x 1510 x 1125(peak)</td>
</tr>
<tr>
<td>Internal Lower Chamber L x W x H (mm)</td>
<td>3710 x 1510 x 370</td>
</tr>
<tr>
<td>Load Chamber Volume (m³)</td>
<td>5.1</td>
</tr>
<tr>
<td>Weight (approx tonnes)</td>
<td>26.2</td>
</tr>
<tr>
<td>Max Load Capacity (kg)</td>
<td>3000</td>
</tr>
<tr>
<td>Nominal Burn Rate (kg/hr)</td>
<td>500 to 1000</td>
</tr>
<tr>
<td>Thermal Capacity (kW)</td>
<td>2250</td>
</tr>
<tr>
<td>Power Supply 50/60 hz</td>
<td>318/415v</td>
</tr>
<tr>
<td>Door Aperture</td>
<td>3650 x 1450</td>
</tr>
<tr>
<td>Control Panel</td>
<td>PLC</td>
</tr>
<tr>
<td>Fuel Types</td>
<td>Diesel, LPG, N-Gas</td>
</tr>
<tr>
<td>Insulation Board</td>
<td>25mm Super-wool</td>
</tr>
<tr>
<td>Insulation Fire Brick</td>
<td>Grade E23</td>
</tr>
<tr>
<td>Fire Brick (Alumina)</td>
<td>42.5%</td>
</tr>
</tbody>
</table>

*We reserve the right to change the specification, dimensions and quality of materials from time to time, so long as the alteration is minor or an improvement to the said product.*

**Waste Type**

- Agricultural Waste
- Medical Waste
- General (municipal) Waste
The Addfield Difference

- Pre-fabricated 8mm & 10mm robust mild steel casing, seam welded and suitably stiffened/braced where necessary.
- Lightweight resilient refractory fibre insulation door, providing a tight seal, giving excellent thermal efficiency.
- Primary lining thickness 190mm, rated at 1450°C.
- Low thermal mass roof lining, with removable roof and back plate for ease of maintenance.
- Paint finishing – The steel structures are completely painted using a two-pack high grade paint system.
- Unique Grated Hearth technology designed for the increased efficiency of material incineration.
- A 190mm thick refractory lining, using andalusite and insulation bricks, improving thermal efficiency.

Waste Loading and De-Ashing

Loading can be carried out either mechanically or manually through the vertical opening hydraulically operated lid. The ash removal will be manually through the front ash doors, a full set of de-ashing tools are included with every Rapid machine. To de-ash simply push the de-ashing button on the control panel, this will isolate the lower burners to allow ash doors to open for ash removal.

Additional Operation Equipment

- **Control Panel**
  
  Specially designed control panels, to manage your incineration. Pre-programmed and able to be manually adjusted for optimal results. Push button and touch screen control with optional data logging system.

- **Fuel Tank**
  
  Allowing you to operate the incinerator in all locations as well as providing a backup to your traditional supply. Available in 1000 to 5000 litre capacity. Fuel can be safely stored and monitored in close proximity to your incinerator.

- **Venturi System**
  
  An advanced flue gas treatment system designed to further reduce dust, acid gasses, dioxins and furans. Highly effective the venturi is widely regarded as the leading treatment system in its field.
Addfield Intelligent PLC Controller
Simple to operate adaptive control system for achieving optimal results from your machine.

Controller Features
The Addfield PLC Controller has been developed to provide you with a simple yet effective operational process. Designed around a touch screen HMI interface, and independent burner control buttons and switches.

The touch screen interface provides all of your essential operations at the press of a finger. Having pre-loaded programmes optimised for your individual requirements, waste type and operating regime.

Giving you instant access to live temperature readings for the primary and secondary chambers and remaining burn time to enable you to manage your incineration process more efficiently.

Simple to install with a plug and play interface which enables straightforward installation and maintenance.

Built in data-logging to automatically records your usage, timings and temperatures achieved. Archives all essential which is able to be exported to Excel through the removable USB drive.

Complete with the addition of an emergency stop button to instantly cancel all operations.

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