BKE Biogas Burners are designed to fit our clients’ applications where the following key parameters are taken into consideration:

- H₂S content
- Moisture content
- Methane content
- Flame speed
- Flame shape (long or flat)
- Direct or indirect firing
- Chamber temperature
- Chamber pressure
- Biogas pressure
- Possible corrosion within the flue gas train
- High efficiency
- Less pollution
- Alternative fuels for co-firing or dual firing
- High safety standards

Note: Biogas burners have many parameters as noted above; therefore specific designs are needed in order to achieve optimum performance reliability.

<table>
<thead>
<tr>
<th>Model</th>
<th>Biogas Consumption (Nm³/hr)</th>
<th>Max Capacity* (kw)</th>
<th>Working Pressure (mb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB250</td>
<td>250</td>
<td>1,389</td>
<td>50-200</td>
</tr>
<tr>
<td>BB500</td>
<td>500</td>
<td>2,778</td>
<td>50-200</td>
</tr>
<tr>
<td>BB750</td>
<td>750</td>
<td>4,167</td>
<td>50-200</td>
</tr>
<tr>
<td>BB1000</td>
<td>1,000</td>
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<tr>
<td>BB1250</td>
<td>1,250</td>
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<td>50-200</td>
</tr>
<tr>
<td>BB1500</td>
<td>1,500</td>
<td>8,333</td>
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<tr>
<td>BB2000</td>
<td>2,000</td>
<td>11,111</td>
<td>50-200</td>
</tr>
</tbody>
</table>

*Subject to change based upon client’s specific application.
Technical Specifications

**Type:** Automatic forced draught burner

**Fuel:** Biogas (Minimum 55% Methane)

**Co-Fuel:** Oil or gaseous fuel (Option)

**Burner Control:** European standard EN 298
- Purge time = 60 sec
- Safety time = 5 sec max

**Flame Arrester:** End-of-line stainless steel flame arrestor before biogas nozzle(s)
European Standard Design & Test (EN 12874)

**Flame Detector:** UV sensor flame detector

**Ignition System:** 14,000 Volt European standard ignition transformer w/optional LPG igniter

**Gas Train:** Stainless steel gas train with automatic valve proving system (VPS)

**Safety Shut-off Device:** Solenoid valves or pneumatic/electric automatic valves

**Biogas Supply Pressure:** 50-200 mbar (adaptable to available pressure)

**Temp Level:** 2 stages: 1st for low flame and 2nd for high flame

**Air Damper:** Pneumatic air damper

**Turn-Down Ratio:** 1/5 as standard, option can be 1/20