Kawasaki Co-Generation system

Electric Power 5.3MWe, Steam 14.4t/h, Dry Low Emissions

High efficiency: electric 28.9%, overall 82.3%
Dry low emissions: NOx 35ppmv, CO 50ppmv (O2 = 15%)
High reliability & easy maintenance

Nominal Performance (Gas fuel)

<table>
<thead>
<tr>
<th>Amb.temp. °C</th>
<th>Electric Output kW</th>
<th>Heat Rate kJ/kW-hr</th>
<th>Steam Output x10³kg/hr</th>
<th>Electrical Efficiency %</th>
<th>Total Thermal Efficiency %</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 (32)</td>
<td>5.800</td>
<td>12,130</td>
<td>14.7</td>
<td>29.7</td>
<td>80.4</td>
</tr>
<tr>
<td>15 (59)</td>
<td>5.280</td>
<td>12,460</td>
<td>14.4</td>
<td>28.9</td>
<td>82.3</td>
</tr>
<tr>
<td>40 (104)</td>
<td>3.830</td>
<td>14,050</td>
<td>13.5</td>
<td>25.6</td>
<td>87.0</td>
</tr>
</tbody>
</table>

Nominal Performance
- Elevation: 0 m
- Inlet Air Temperature: 15 °C
- Inlet Air Pressure Loss: 0.98 kPa
- Exhaust Gas Pressure Loss: 2.45 kPa
- LHV of Natural Gas Fuel (100% CH₄): 35.9 MJ/Nm³

Typical Steam Condition
- Steam Pressure: 0.83 MPaG
- Steam Temperature (Saturated): 177 °C
- Feed Water Temperature: 80 °C
- Blowdown from HRSG: 0 %