

**HIGH TEMPERATURE AND CONDENSING HEAT EXCHANGER  
IN ONE RAPID BIOGAS CHP UNIT**



REFERENCE PROJECT

**BURGBERG E.G. AGRICULTURAL COOPERATIVE**

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The BOMAT O2-VG-1072-HT-8-9-3 comprises one high temperature module and one condensing module, both mounted inside a single casing. In addition, this heat exchanger is also equipped with cleaning nozzles. The heat exchanger is installed in the bypass on the exhaust gas side. The recovered heat is supplied to the heating network for return temperature raising.

<b>Heat source:</b>	Caterpillar with 170 kW el.
<b>Fuel:</b>	<input type="radio"/> Fuel oil <input type="radio"/> Natural gas <input type="radio"/> Sewer gas <input checked="" type="radio"/> Biogas
<b>Exhaust gas heat exchanger:</b>	O2-VG-1072-HT-8-9-3 (year of manufacture 2016)
<b>Exhaust gas temperature:</b>	approx. 420 °C (upstream of HE) ➔ approx. 80 °C (downstream of HE)
<b>Coolant temperature:</b>	approx. 55 °C (upstream of HE) ➔ approx. 65 °C (downstream of HE)
<b>Heat recovery per year:</b>	approx. 380,000 kWh
<b>CO<sub>2</sub> reduction per year:</b>	approx. 76,000 kg

➔ Estimated payback period **less than 3 YEARS.**



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