

BIOGAS/SEWER GAS

**BIOGAS CHP UNIT  
UTILISING CONDENSING TECHNOLOGY****BUHL BIOGAS PLANT**

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Since the drying of sewage sludge requires a great deal of energy, a BOMAT O3-GG-1064-MT-4-9-3 condensing heat exchanger was retrofitted in September 2011. Thanks to the ongoing success of this plant, we installed our newly developed O3-KK-1064-MT-4-9-6 modular exhaust gas heat exchanger with corrosion-resistant plastic pipes in March 2020. As before, the heat recovered is still supplied to the underfloor heating system to dry the sewage sludge.

<b>Heat generator:</b>	CHP unit 550 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>	modular Profitherm O3-KK-1064-MT-4-9-6 (year of manufacture: 2020)
<b>Heat recovery per year:</b>	approx. 650,000 kWh
<b>CO<sub>2</sub> reduction per year:</b>	approx. 130,000 kg
<b>Engineering design by:</b>	Ingenieurbüro Siegfried Morath, Brünnesäcker 15, 72270 Klosterreichenbach, Germany

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

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