

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT



BIO-STROM-KORTENBERKEN GMBH & CO. KG

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At the "Hauptstrasse 63" satellite site, the residual heat from the exhaust gas of a flexible CHP unit (Jenbacher JMS 412) is utilised by means of a BOMAT exhaust gas heat exchanger cascade. The three BOMAT O3-KK-1064-MT-4-9-6 exhaust gas heat exchangers from the modular Profitherm series are installed in the bypass on the exhaust gas side. An exhaust gas fan draws the exhaust gases from the chimney through the heat exchanger. The extracted heat is fed into the heating system via a return temperature raising facility.

Heat source: Jenbacher BHKW JMS 412 B25, 901 kWel.

Fuel: ☐ Fuel oil ☐ Natural gas ☐ Sewer gas ☒ Biogas

Exhaust gas heat exchanger: 3 x O3-KK-1064-MT-4-9-6 (year of manufacture: 2022)

Exhaust gas temperature: approx. 180°C (upstream of HE) ➔ approx. 70°C (downstream of HE)

Coolant temperature: approx. 60°C (upstream of HE) ➔ approx. 66°C (downstream of HE)

Heat recovery per year: approx. 390,000 kWh

CO₂ reduction per year: approx. 78,000 kg

Plant construction: BioBG GmbH, Webers Flach 1, 26655 Ocholt

➔ Estimated payback period **approx. 3–4 YEARS.**


BioBG
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