

BIOGAS/SEWER GAS

BIOGAS CHP UNIT UTILISING CONDENSING TECHNOLOGY



ERSTE BIOGAS OCHOLT GMBH & CO. KG

BioBG GmbH, Webers Flach 1, 26655 Ocholt, Germany

After a biogas CHP unit (625 kW_{el}.) was successfully equipped with a Bomat condensing heat exchanger in 2014, another biogas CHP unit (530 kW_{el}.) has now been retrofitted with an exhaust gas heat exchanger from Bomat. It is the new modular Profitherm series O3-KK-1064-MT-4-9-6, which is installed in the bypass on the exhaust side. On the water side, the heat exchanger is connected for return temperature raising.

| | |
|---|---|
| Heat generator: | Biogas CHP unit 530 kW (el.) |
| Fuel: | ○ Fuel oil ○ Natural gas ○ Sewer gas ○ Biogas |
| Exhaust gas heat exchanger: | Cascade of two O3-KK-1064-MT-4-9-6 units (year of manufacture: 2020) |
| Exhaust gas temperature: | approx. 200 °C (upstream of heat exchanger) ➔ approx. 72 °C (downstream of heat exchanger) |
| Coolant temperature: | approx. 50 °C (upstream of heat exchanger) ➔ approx. 58 °C (downstream of heat exchanger) |
| Heat recovery per year: | approx. 520,000 kWh |
| CO₂ reduction per year: | approx. 104,000 kg |
| Plant construction: | BioBG GmbH, Webers Flach 1, 26655 Ocholt, Germany |

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

BioBG
Mehr Erfolg mit effizienter Energie

MADE IN
GERMANY



BOMAT Energiesysteme GmbH

Zum Degenhardt 49 T +49 (0) 75 51 80 99 70 info@bomat.de
88662 Überlingen F +49 (0) 75 51 80 99 71 www.bomat.de