## **BIOGAS/SEWER GAS**



## **EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT**







Mehr Erfolg mit effizienter Energie

## **BIO-ENERGIE-KORTENBERKEN GMBH & CO. KG**

Boschstr. 7, 49835 Wietmarschen, Germany

At Kortenberken 8, the thermal energy contained in the exhaust gas is routed to the heating system via a BOMAT O7-VG-10240-8-9-6 high temperature exhaust gas heat exchanger. The heat exchanger consists of one high temperature module and 6 condensing modules. Cleaning nozzles are also available. The heat exchanger is installed in the bypass on the exhaust gas side.

**Heat source:** AP CHP unit – MAN 400 kWel

Fuel: • Fuel oil • Natural gas • Sewer gas • Biogas

**Exhaust gas heat exchanger:** 07-VG-10240-8-9-6 (year of manufacture: 2016)

Exhaust gas temperature: approx. 540 °C (upstream of HE) approx. 70 °C (downstream of HE)

Coolant temperature (HT): approx. 78 °C (upstream of HE) approx. 85 °C (downstream of HE)

Coolant temperature (LT): approx. 45 °C (upstream of HE) approx. 54 °C (downstream of HE)

**Heat recovery per year:** approx. 1,300,000 kWh **CO<sub>2</sub> reduction per year:** approx. 260,000 kg

**Plant manufacturer:** BioBG GmbH, Webers Flach 1, 26655 Westerstede, Germany MADE IN

Sestimated payback period less than 3 YEARS.

## **BOMAT Heiztechnik GmbH** -

Zum Degenhardt 49 T +49(0)7551.80 9970 88662 Überlingen F +49(0)7551.80 9971 info@bomat.de www.bomat.de

A member of the puren Group





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