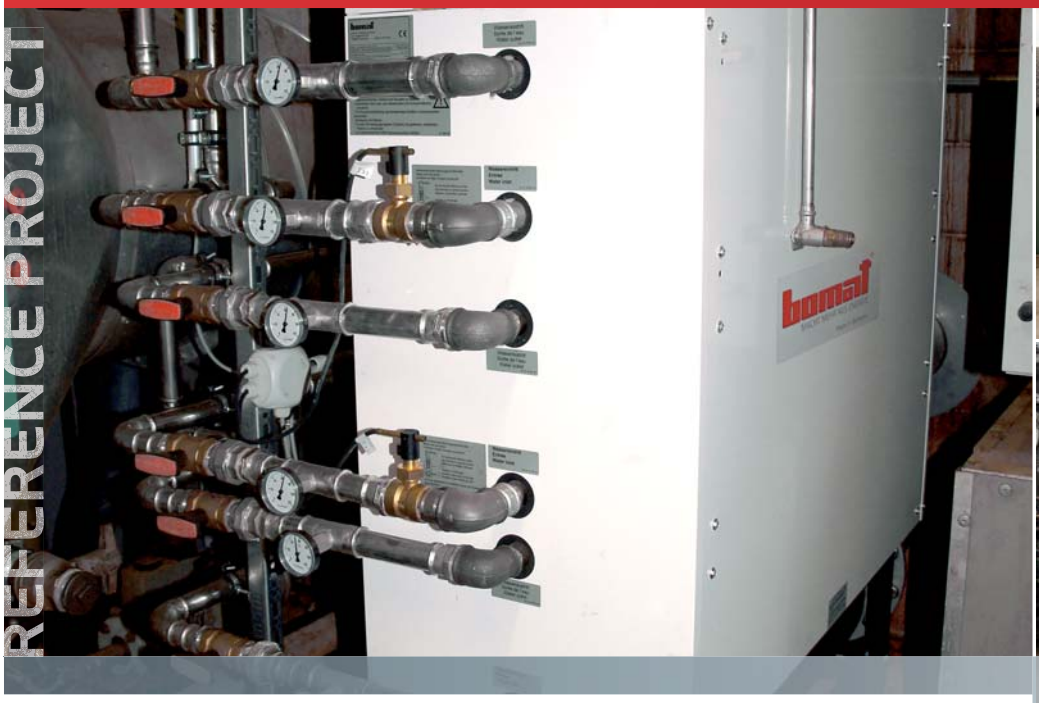
BIOGAS/SEWER GAS

HIGH TEMPERATURE AND CONDENSING HEAT EXCHANGERS IN TWO RAPID BIOGAS CHP UNITs

REFERENCE PROJECT



SUDHOLZ & HARTING GBR BIOGAS PLANT

Lohhof 8, 31600 Uchte, Germany

The BOMAT 03-VG-1072-HT-8-9-3 comprises one high temperature module and two condensing modules, which are mounted inside a single casing. Two such heat exchangers are deployed here. They are equipped with cleaning nozzles and are fitted in the bypass on the exhaust gas side. The heat recovered is supplied to the heating network in the HT module as a flow temperature raising facility and in the LT module as a return temperature raising facility.

Heat source:	2 rapid CHP units with 250 kW el. each
Fuel:	○ Fuel oil ○ Natural gas ○ Sewer gas ● Biogas
Exhaust gas heat exchanger:	03-VG-1072-HT-8-9-3 (year of manufacture 2016)
Exhaust gas temperature:	approx. 480 °C (upstream of HE) ➔ approx. 75 °C (downstream of HE)
Coolant temperature (LT):	approx. 45 °C (upstream of HE) ➔ approx. 55 °C (downstream of HE)
Coolant temperature (HT):	approx. 80 °C (upstream of HE) ➔ approx. 86 °C (downstream of HE)
Heat recovery per year:	approx. 980,000 kWh (per plant)
CO_2 reduction per year:	approx. 196,000 kg (per plant)
Plant manufacturer:	BioBG GmbH, Webers Flach 1, 26655 Westerstede, Germany

BioBG
Mehr Erfolg mit effizienter Energie

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

MADE IN GERMANY

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