

BIOGAS/SEWER GAS

BIOGAS CHP UNIT UTILISING CONDENSING TECHNOLOGY



REFERENCE PROJECT

BERNHARD SCHÜLTKEN-WILSMANN BIOGAS PLANT

Westerwieher Str. 36, 33129 Delbrück, Germany

A BOMAT 07-GG-1046-MT-4-9-3 unit is installed in the bypass on the exhaust gas side. The heat recovered is supplied to the heating network on the water side via the fermenter and dryer return, as a return temperature raising facility.

Heat generator:	MTU GB 800 B5 with 800 kW el.
Fuel:	○ Fuel oil ○ Natural gas ○ Sewer gas ● Biogas
Exhaust gas heat exchanger:	07-GG-1046-MT-4-9-3 (year of manufacture: 2015)
Flue gas temperature:	approx. 180 °C (upstream of HE) ➔ approx. 75 °C (downstream of HE)
Coolant temperature:	approx. 50 °C (upstream of HE) ➔ approx. 60 °C (downstream of HE)
Heat recovery per year:	approx. 910,000 kWh
CO₂ reduction per year:	approx. 182,000 kg
Plant manufacturer:	Kaimann Energietechnik GmbH, Fasanenweg 2, 33397 Rietberg, Germany

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

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