BIOGAS/SEWER GAS

UTILISATION OF EXHAUST GAS HEAT FROM A BIOGAS CHP UNIT

REFERENCE PROJECT

BIOBG GMBH

DORMA, Industriestraße 5, 26655 Westerstede, Germany

At DORMA in Ocholt, hot exhaust gas from the CHP unit is supplied to the heating system by means of a Bomat 03-VG-1072-8-9-3 high temperature exhaust gas heat exchanger. The heat exchanger consists of a high temperature module and 2 condensing modules. The heat exchanger is installed in the bypass on the exhaust gas side.

Heat source:	Elektro Hagl BHKW - MAN 250 kWel
Fuel:	○ Fuel oil ○ Natural gas ○ Sewer gas ● Biogas
Exhaust gas heat exchanger:	03-VG-1072-HT-8-9-3 (year of manufacture: 2018)
Exhaust gas temperature:	approx. 470°C (upstream of HE) ➔ approx. 80°C (downstream of HE)
Coolant temperature (LT):	approx. 70°C (upstream of HE) ➔ approx. 90°C (downstream of HE)
Coolant temperature (HT):	approx. 60°C (upstream of HE) ➔ approx. 70°C (downstream of HE)
Heat recovery per year:	approx. 950,000 kWh
CO_2 reduction per year:	approx. 190,000 kg

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

BioBG
Mehr Erfolg mit effizienter Energie

MADE IN GERMANY

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