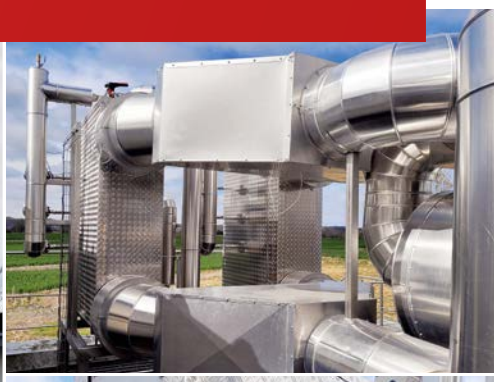
BIOGAS/SEWER GAS

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT

REFERENCE PROJECT



BIOKRAFT ENERGIE GMBH

Obdrup 2, 24986 Mittelangeln, Germany

At the "Zum Schwimmbad" satellite site in Mittelangeln, the residual heat from the exhaust gas of a MWM/SEVA CHP unit is utilised by means of a BOMAT exhaust gas heat exchanger cascade. The two BOMAT 03-KK-1064-MT-4-9-6 exhaust gas heat exchangers from the modular Profitherm series are installed in the bypass on the exhaust gas side. The extracted heat is fed into the heating system via a return temperature raising facility.

Heat source:	MWM/SEVA 600 kWel.
Fuel:	○ Fuel oil ○ Natural gas ○ Sewer gas ● Biogas
Exhaust gas heat exchanger:	2x 03-KK-1064-MT-4-9-6 (year of manufacture: 2024)
Exhaust gas temperature:	approx. 180°C (upstream of HE) ➔ approx. 70°C (downstream of HE)
Coolant temperature:	approx. 50°C (upstr. of HE) ➔ approx. 60°C (downstr. of HE)
Heat recovery per year:	approx. 500,000 kWh
CO_2 reduction per year:	approx. 100,000 kg
Plant construction:	ETS Energietechnik Satrup GmbH, Flensburger Str. 56, 24986 Mittelangel

➔ Payback period **less than 4 YEARS.**

MADE IN GERMANY

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