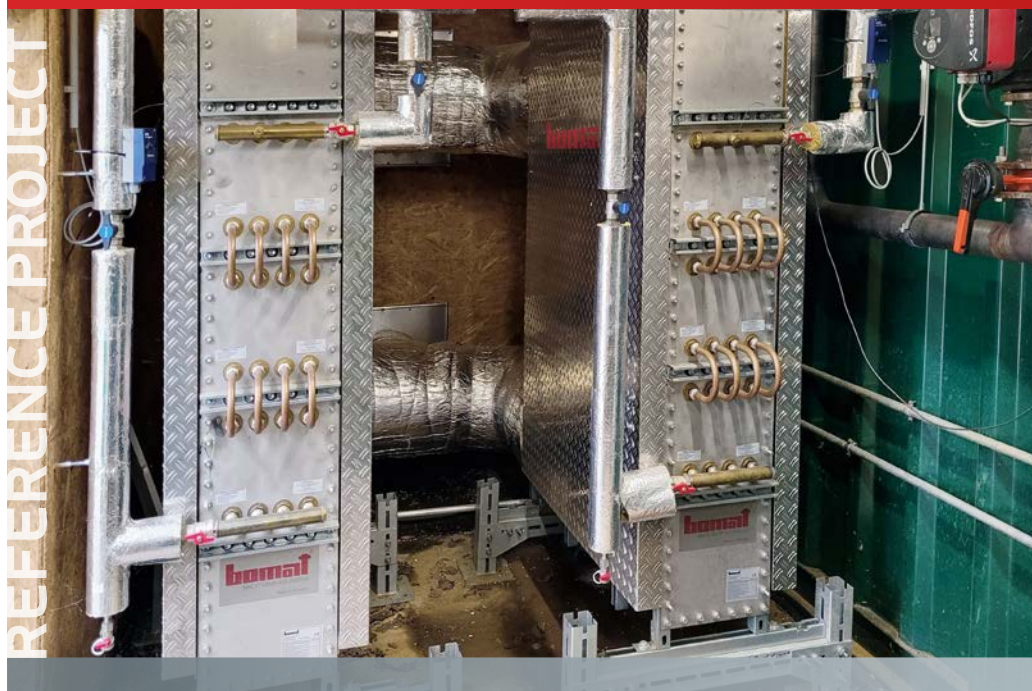


BIOGAS/SEWER GAS

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT



BIOCONSTRUCT GMBH

Wellingstraße 66, 49328 Melle, Germany

At the "Waldbach - Riemsloh" satellite site, the residual heat from the exhaust gas of a Bayern CHP plant is utilised. The two BOMAT O3-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 a buffer cylinder.

Heat source:	Bayern-BHKW, 530 kW el.
Fuel:	<input type="radio"/> Fuel oil <input type="radio"/> Natural gas <input type="radio"/> Sewer gas <input checked="" type="radio"/> Biogas
Exhaust gas heat exchanger:	2x O3-KK-1064-MT-4-9-6 (year of manufacture: 2021)
Exhaust gas temperature:	approx. 180°C (upstream of HE) ➔ approx. 70°C (downstream of HE)
Coolant temperature:	approx. 60°C (upstr. of HE) ➔ approx. 72°C (downstr. of HE)
Heat recovery per year:	approx. 470,000 kWh
CO₂ reduction per year:	approx. 94,000 kg
Plant construction:	bioconstruct GmbH
➔ Estimated payback period approx. 3 YEARS.	

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