BIOGAS/SEWER GAS



EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT



BIOCONSTRUCT GMBH

Wellingstraße 66, 49328 Melle, Germany

At the "Riemsloh school" satellite site, the residual heat from the exhaust gas of a CHP unit (2G agenitor 212) is utilised by means of a BOMAT exhaust gas heat exchanger cascade. 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:	2G agenitor 212, 400 kW el.	
Fuel:	O Fuel oil O Natural gas O Sewer gas O Biogas	
Exhaust gas heat exchanger:	2x 03-KK-1064-MT-4-9-6 (year of manufacture: 2023)	
Exhaust gas temperature:	approx. 200°C (upstream of HE) 🛛 approx. 70°C (downstream of HE)	
Coolant temperature:	approx. 60°C (upstr. of HE) � approx. 65°C (downstr. of HE)	
Heat recovery per year:	approx. 420,000 kWh	
CO ₂ reduction per year:	approx. 84,000 kg	
Plant construction:	bioconstruct GmbH	
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Estimated payback period approx. 3 YEARS.



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