BIOGAS/SEWER GAS

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT

REFERENCE PROJECT

RULAND BIOGAS PLANT

Kohlbühl 17, 92703 Krummennaab, Germany

At the site of the Kohlbühl 17 biogas plant, the waste heat from the exhaust gas of a Hagl CHP unit is utilised by means of a BOMAT exhaust gas heat exchanger. The 03-KK-1064-MT-4-9-6 exhaust gas heat exchanger from the modular Profitherm series is equipped with two charging units. It is installed in the bypass on the exhaust gas side. The extracted heat is made available to the heating network via a return temperature raising facility.

Heat source:	Hagl BHKW, 210 kW el.
Fuel:	○ Fuel oil ○ Natural gas ○ Sewer gas ● Biogas
Exhaust gas heat exchanger:	03-KK-1064-MT-4-9-6 (year of manufacture: 2024)
Exhaust gas temperature:	approx. 200°C (upstream of HE) ➔ approx. 80°C (downstream of HE)
Coolant temperature:	approx. 55°C (upstr. of HE) ➔ approx. 62°C (downstr. of HE)
Heat recovery per year:	approx. 180,000 kWh
CO_2 reduction per year:	approx. 36,000 kg

➔ Estimated payback period **approx. 3 YEARS.**

MADE IN GERMANY

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