

BIOGAS/SEWER GAS

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT



ROTTMAR AGRARTECHNIK GMBH

An der Ach 1, 88299 Leutkirch

The BOMAT O3-KK-1064-MT-4-9-6 exhaust gas heat exchanger from the modular Profitherm series is 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:	Jenbacher BHKW JMS 412 GS, 889 kWel.
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:	O3-KK-1064-MT-4-9-6 (year of manufacture: 2022)
Exhaust gas temperature:	approx. 200°C (upstream of HE) ➔ approx. 66°C (downstream of HE)
Coolant temperature:	approx. 60°C (upstr. of HE) ➔ approx. 64°C (downstr. of HE)
Heat recovery per year:	approx. 160,000 kWh
CO₂ reduction per year:	approx. 32,000 kg
➔ Estimated payback period approx. 3–4 YEARS.	

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