

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT



BIOGASANLAGE GBR SELLTHÜREN

Sellthüren 3/8, 87634 Günzach, Germany

At the site of the biogas plant, the residual heat from the exhaust gas of a 2G agenitor 404C biogas CHP unit is utilised by means of a BOMAT exhaust gas heat exchanger. The BOMAT O2-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 made available to the heating network via a return temperature raising facility.

Heat source:	2G agenitor 404C - 160 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:	O2-KK-1064-MT-4-9-6 (year of manufacture: 2025)
Exhaust gas temperature:	approx. 170°C (upstream of HE) ➔ approx. 70°C (downstream of HE)
Coolant temperature:	approx. 60°C (upstr. of HE) ➔ approx. 66°C (downstr. of HE)
Heat recovery per year:	approx. 100,000 kWh
CO₂ reduction per year:	approx. 20,000 kg
Plant construction:	Edelstahl Huber, Gottlieb-Daimler-Straße 10-12, 86807 Buchloe, Germany

➔ Estimated payback period **approx. 4 YEARS.**



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