

## EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT



### CHRISTIAN GEISENHOFER BIOENERGIE

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At the site of the biogas plant, the residual heat from the exhaust gas of a Hagl CHP unit is utilised by means of a BOMAT exhaust gas heat exchanger cascade. The two BOMAT 03-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 made available to the heating network via a return temperature raising facility.

<b>Heat source:</b>	Hagl, 530 kW el.
<b>Fuel:</b>	<input type="radio"/> Fuel oil <input type="radio"/> Natural gas <input type="radio"/> Sewer gas <input checked="" type="radio"/> Biogas
<b>Exhaust gas heat exchanger:</b>	2x 03-KK-1064-MT-4-9-6 (year of manufacture: 2024)
<b>Exhaust gas temperature:</b>	approx. 210°C (upstream of HE) ➔ approx. 90°C (downstream of HE)
<b>Coolant temperature:</b>	approx. 75°C (upstr. of HE) ➔ approx. 82°C (downstr. of HE)
<b>Heat recovery per year:</b>	approx. 250,000 kWh
<b>CO<sub>2</sub> reduction per year:</b>	approx. 50,000 kg
<b>Plant construction:</b>	Edelstahl Huber, Gottlieb-Daimler-Straße 10-12, 86807 Buchloe, Germany

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



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