

BIOGAS/SEWER GAS

BIOGAS CHP UNIT UTILISING CONDENSING TECHNOLOGY



A & C NATURENERGIE UG & CO. KG

Hinter den Höfen 3, 27777 Ganderkesee

At the SaunaHuus spa in Ganderkesee, a Bomat O3-KK-1064-MT-4-9-6 condensing exhaust gas heat exchanger from the modular Profitherm series makes use of residual heat in the exhaust gas from a biogas CHP unit. The heat exchanger is installed in the bypass on the exhaust gas side and the extracted heat is fed into the SaunaHuus via a return temperature raising facility.

Heat generator:	Hagl Biogas BHKW - 380 kW el
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: 2024)
Exhaust gas temperature:	approx. 200 °C (upstream of heat exchanger) ➔ approx. 80 °C (downstream of heat exchanger)
Coolant temperature:	approx. 65 °C (upstream of heat exchanger) ➔ approx. 73 °C (downstream of heat exchanger)
Heat recovery per year:	approx. 350,000 kWh
CO₂ reduction per year:	approx. 75,000 kg
Plant construction:	BioBG GmbH, Webers Flach 1, 26655 Ocholt, Germany

➔ Estimated payback period **approx. 3-4 YEARS.**

BOMAT Energiesysteme GmbH

Zum Degenhardt 49 T +49(0)7551.80 9970 info@bomat.de
88662 Überlingen F +49(0)7551.80 9971 www.bomat.de



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