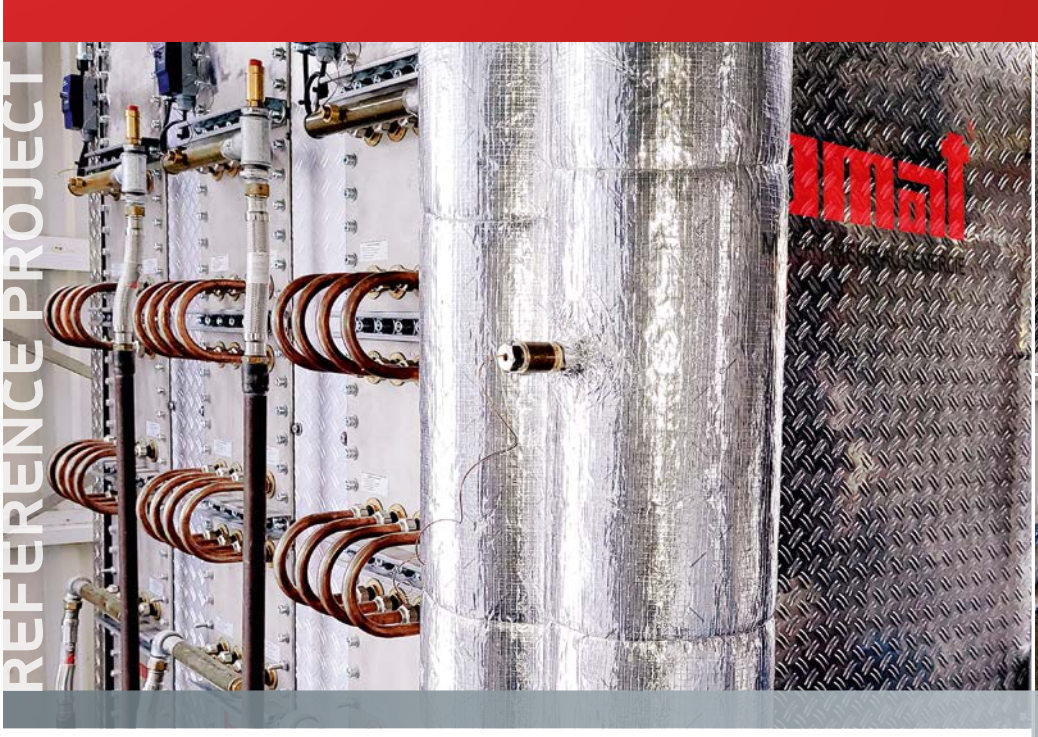
BIOGAS/SEWER GAS

EXHAUST GAS HEAT RECOVERY IN A BIOGAS CHP UNIT

REFERENCE PROJECT



BIOENERGIE KÜHBACH GBR

Großhausener Straße 2, 86556 Kühbach

At the "Dieselstrasse 13" site, the residual heat from the exhaust gas of a biogas CHP unit (Jenbacher JMS 412) is utilised by means of a BOMAT exhaust gas heat exchanger cascade. The three 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. An exhaust gas fan draws the exhaust gases from the chimney through the heat exchanger. The extracted heat is used to heat the fermenter.

Heat source:	Jenbacher BHKW JMS 412 GS, 889 kWel.
Fuel:	○ Fuel oil ○ Natural gas ○ Sewer gas ● Biogas
Exhaust gas heat exchanger:	3 x 03-KK-1064-MT-4-9-6 (year of manufacture: 2022)
Exhaust gas temperature:	approx. 200°C (upstream of HE) ➔ approx. 75°C (downstream of HE)
Coolant temperature:	approx. 50°C (upstr. of HE) ➔ approx. 62°C (downstr. of HE)
Heat recovery per year:	approx. 1,045,000 kWh
CO_2 reduction per year:	approx. 210,000 kg
Plant construction:	Edelstahl Huber, Gottlieb-Daimler-Straße 10-12, 86807 Buchloe

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

HUBER
Qualität aus **Edelstahl**

MADE IN GERMANY

BOMAT Energiesysteme GmbH

Zum Degenhardt 49 T +49 (0) 7551.80 99 70 info@bomat.de
88662 Überlingen F +49 (0) 7551.80 99 71 www.bomat.de