

BIOGAS/SEWER GAS

SEWER GAS CHP UNIT UTILISING CONDENSING TECHNOLOGY



FISCHINGEN SEWAGE PLANT

Abwasserverband Empfingen, 72816 Empfingen, Germany

In this project a BOMAT O1-GG-1022-NT-4-K-6 exhaust gas heat exchanger is connected downstream of a PowerTherm 20 type sewer gas CHP unit. This enables the heat contained in the exhaust gas to be used up to its gross calorific value. The energy is then fed into the heating system via a return temperature raising facility.

Heat generator:	PowerTherm 20 sewer gas CHP unit
Fuel:	○ Fuel oil ○ Natural gas ● Sewer gas ○ Biogas
Exhaust gas heat exchanger:	O1-GG-1022-NT-4-K-6 (year of manufacture: 2008)
Exhaust gas temperature:	approx. 180 °C (upstream of heat exchanger) ➔ approx. 65 °C (downstream of heat exchanger)
Coolant temperature:	approx. 40 °C (upstream of heat exchanger) ➔ approx. 50 °C (downstream of heat exchanger)
Heat recovery per year:	approx. 34,000 kWh
Plant construction:	Kopf AG, Umwelt- und Energietechnik, Stützenstraße 6, 72172 Sulz Bergfelden, Germany
CO₂ reduction per year:	approx. 6,800 kg

➔ Payback period **less than 3 YEARS.**

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