### **BIOGAS/SEWER GAS**



## BIOGAS CHP UNIT UTILISING CONDENSING TECHNOLOGY



# **BUHL BIOGAS PLANT**

Agricultural engineer Alexander Buhl, 72275 Dornhan-Kaltenhof, Germany

Since the drying of sewage sludge requires a great deal of energy, a BOMAT O3-GG-1064-MT-4-9-3 condensing heat exchanger was retrofitted in September 2011. Thanks to the ongoing success of this plant, we installed our newly developed O3-KK-1064-MT-4-9-6 modular exhaust gas heat exchanger with corrosion-resistant plastic pipes in March 2020. As before, the heat recovered is still supplied to the underfloor heating system to dry the sewage sludge.

Heat generator:	CHP unit 550 kW (el.)
Fuel:	O Fuel oil O Natural gas O Sewer gas O Biogas
Exhaust gas heat exchanger:	modular Profitherm 03-KK-1064-MT-4-9-6 (year of manufacture: 2020)
Heat recovery per year:	approx. 800,000 kWh
CO <sub>2</sub> reduction per year:	approx. 160,000 kg
Engineering design by:	Ingenieurbüro Siegfried Morath, Brünnlesäcker 15, 72270 Klosterreichenbach, Germany

### Setimated payback period less than 3 YEARS.



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