

## TWO JENBACHER BIOGAS CHP UNITS UTILISING CONDENSING TECHNOLOGY



### JOHANNES & MARKUS WEHRLE BIOGASANLAGE SCHLATTHOF GBR

Unterer Schlattthof 1, 78727 Oberndorf, Germany

The two condensing heat exchanger cascades, each consisting of two Bomat O3-KK-1064-MT-4-9-6 heat exchangers from the modular Profitherm series, are installed as downstream exhaust gas heat exchangers. The heat recovered is supplied to the heating network on the water side via the sewage sludge drying return to raise the return temperature.

<b>Heat source:</b>	2 x Jenbacher JMS 312 GS-BL 549 kW
<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>	4 x O3-KK-1064-MT-4-9-6 (year of manufacture: 2020)
<b>Exhaust gas temperature:</b>	approx. 200°C (upstream of HE) ➡ approx. 60°C (downstream of HE)
<b>Coolant temperature:</b>	approx. 35°C (upstream of HE) ➡ approx. 50°C (downstream of HE)
<b>Heat recovery per year:</b>	approx. 1,500,000 kWh
<b>CO<sub>2</sub> reduction per year:</b>	approx. 300,000 kg

➡ Estimated payback period **less than 3 YEARS.**

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