

Biogas CHP unit utilising condensing technology



REFERENCE PROJECT

BIO-ENERGIE-KORTENBERKEN GMBH & CO. KG

Boschstr. 7, 49835 Wietmarschen, Germany

At the sports grounds in Lohne, residual heat from the exhaust gas is utilised via a BOMAT O2-GG-1064-4-9-3 condensing exhaust gas heat exchanger. The heat exchanger is installed in the bypass on the exhaust gas side and the recovered heat is fed into the heating system by means of a return temperature raising facility.

Heat source:	TAB CHP unit – MAN 250 kWel
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:	O2-GG-1064-4-9-3 (year of manufacture: 2016)
Exhaust gas temperature:	approx. 200 °C (upstream of HE) ➔ approx. 70 °C (downstream of HE)
Coolant temperature:	approx. 48 °C (upstream of HE) ➔ approx. 58 °C (downstream of HE)
Heat recovery per year:	approx. 240,000 kWh
CO₂ reduction per year:	approx. 48,000 kg
Plant manufacturer:	BioBG GmbH, Webers Flach 1, 26655 Westerstede, Germany



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



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