

## CHP UNIT

# UTILISATION OF CONDENSING TECHNOLOGY IN A BUDERUS NATURAL GAS CHP UNIT



## BOSCH THERMOTECHNIK GMBH

Geibeltsbad Pirna, Rottwerndorfer Str. 56 C, 01796 Pirna, Germany

The BOMAT O3-GG-1032-MT-4-9-3 exhaust gas heat exchanger is installed as a condensing heat exchanger downstream of a Buderus Loganova EN 140 CHP unit. The heat is supplied to the heating system for return temperature raising.

<b>Heat source:</b>	Buderus Loganova EN 140
<b>Fuel:</b>	<input type="radio"/> Fuel oil <input checked="" type="radio"/> Natural gas <input type="radio"/> Sewer gas <input type="radio"/> Biogas
<b>Exhaust gas heat exchanger:</b>	O3-GG-1032-MT-4-9-3 (year of manufacture: 2017)
<b>Exhaust gas temperature:</b>	approx. 110°C (upstream of HE) ➔ approx. 55°C (downstream of HE)
<b>Coolant temperature:</b>	approx. 43°C (upstream of HE) ➔ approx. 48°C (downstream of HE)
<b>Heat recovery per year:</b>	approx. 360,000 kWh
<b>CO<sub>2</sub> reduction per year:</b>	approx. 72,000 kg

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



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