

## COMBUSTION AIR PREHEATING IN A DRYING SYSTEM



### QUALITÄTSTROCKNUNG NORDBAYERN E.G, WECHINGEN

Im Bach 26, 86759 Wechingen, Germany

The heat generated by a biogas CHP unit is routed to the combustion air via a BOMAT special heat exchanger. The installed fan takes in the air to be used for drying and routes this to the burner as combustion air via the Bomat heat exchanger. The heat exchanger is designed so that it can be opened fully on one side for cleaning purposes.

<b>Heat source:</b>	heating water – produced by a biogas CHP unit
<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>	special unit (year of manufacture: 2015)
<b>Heating water temperature:</b>	approx. 95 °C (upstream of HE) ➔ approx. 65 °C (downstream of HE)
<b>Air temperature:</b>	approx. 45 °C (upstream of HE) ➔ approx. 70 °C (downstream of HE)
<b>Heat recovery per year:</b>	approx. 250,000 kWh
<b>CO<sub>2</sub> reduction per year:</b>	approx. 50,000 kg

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

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