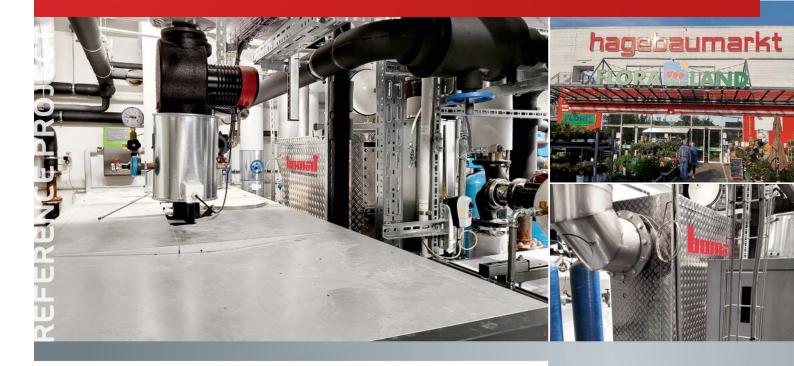
HEATING



WASTE HEAT UTILISATION IN A CONDENSING BOILER FOR HEAT PUMP OPERATION



HAGEBAUMARKT & GARDEN CENTRE, MUNICH SOUTH

Meglinger Straße 31, 81477 Munich, Germany

At the hagebaumarkt DIY and garden centre in the south of Munich, the exhaust gases from a Viessmann condensing boiler are additionally passed through a BOMAT O3-KK-1064-MT-4-9-6 exhaust gas heat exchanger from the modular Profitherm series. The heat recovered is fed into a buffer cylinder and serves as drive energy for a heat pump.

Heat generator: Viessmann Vitrocrossal 300 CRU, 800 kW

Fuel: ○ Fuel oil ○ Natural gas ○ Sewer gas ○ Biogas

Exhaust gas heat exchanger: 2x O3-KK-1064-MT-4-9-6 (year of manufacture: 2023)

Exhaust gas temperature: approx. 80°C (upstream of HE) approx. 25°C (downstream of HE)

Coolant temperature: approx. 10°C (upstr. of HE) **③** approx. 20°C (downstr. of HE)

Heat recovery per year: approx. 250,000 kWh **CO**₂ **reduction per year:** approx. 50,000 kg

Planner: INGENIEURBÜRO WEINDL & WURM, Lochhamer Schlag 5a,

82166 Gräfelfing, German

Plant manufacturer: Neubert Gebäudetechnik GmbH, Adalbert-Stifter-Weg 31,

85570 Markt Schwaben, Germany

Estimated payback period approx. 4 YEARS.

BOMAT Energiesysteme GmbH _

Zum Degenhardt 49 T +49(0)7551.80 9970 info@bomat.de 88662 Überlingen F +49(0)7551.80 9971 www.bomat.de



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