

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) ➡ approx. 20°C (downstr. of HE)
Heat recovery per year:	approx. 250,000 kWh
CO₂ 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.**

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