INDUSTRY

UTILISING WASTE HEAT FROM ALUMINIUM MELTING FURNACES

REFERENCE PROJECT

ALUMINIUM MELTING FURNACES, METALLGUSS BRINSCHWITZ GMBH (RASTATT)

Lochfeldstrasse 19, 76437 Rastatt, Germany

Exhaust gas generated by the aluminium melting furnaces is fed into a Bomat 02-VG-1072-HT-8-9-3 high temperature exhaust gas heat exchanger via an exhaust gas fan. The heat contained therein is then supplied to the heating system via a 25,000 litre buffer cylinder.

Heat source:	6 melting furnaces with a total output of approx. 300 kW
Fuel:	○ Fuel oil ● Natural gas ○ Sewer gas ○ Biogas
Exhaust gas heat exchanger:	02-VG-1072-HT-8-9-3 (year of manufacture: 2016)
Exhaust gas temperature:	approx. 500 °C (upstream of HE) ➔ approx. 75 °C (downstream of HE)
Coolant temperature:	approx. 50 °C (upstream of HE) ➔ approx. 70 °C (downstream of HE)
Heat recovery per year:	approx. 170,000 kWh
CO_2 reduction per year:	approx. 34,000 kg
Plant manufacturer:	Gerold Weber Solartechnik GmbH, Gerberstrasse 11, 77855 Achern, Germany

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

MADE IN GERMANY

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