

BOMAT EXHAUST GAS HEAT EXCHANGER



**HIGH TEMPERATURE
AND CONDENSING
TECHNOLOGY** IN ONE
UNIT.



EXHAUST GAS HEAT RECOVERY FOR
PROCESSES WITH AN EXHAUST GAS IN-
LET TEMPERATURE OF UP TO 700 °C.



- EXHAUST GAS INLET TEMPERATURES OF UP TO 700 °C
- SUITABLE FOR NATURAL GAS, FUEL OIL AND DIESEL AS WELL AS BIOGAS AND SEWER GAS
- WITH INTEGRATED SPRAY NOZZLE CLEANING FEATURE
- STRAIGHTFORWARD TO SERVICE
- SHORT PAYBACK PERIODS
- SUITABLE AS ORIGINAL EQUIPMENT OR FOR RETROFITTING

BOMAT EXHAUST GAS HEAT EXCHANGER. IT PAYS OFF!

LESS IN, MORE OUT. THE AVERAGE PAYBACK PERIOD IS LESS THAN 3 YEARS.
HERE ARE TWO RECENT EXAMPLES:

BOMAT

High temperature and condensing heat exchangers

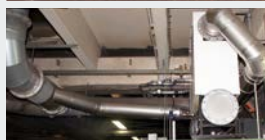


Bio-Energie-Kortenberken GmbH & Co. KG

At Kortenberken 8, the thermal energy contained in the exhaust gas is supplied to the heating system. The heat exchanger consists of a high temperature module and 6 condensing modules.

Heat source:	AP CHP unit - MAN 400 kWel
Exhaust gas heat exchanger:	O7-VG-10240-8-9-6 (year of manuf.: 2016)
Exhaust gas temperature:	approx. 540°C (upstream of HE) ☺ approx. 70°C (downstream of HE)
Coolant temperature (HT):	approx. 78°C (upstream of HE) ☺ approx. 85°C (downstream of HE)
Coolant temperature (LT):	approx. 45°C (upstream of HE) ☺ approx. 54°C (downstream of HE)
Heat recovery per year:	approx. 1.300.000 kWh
CO₂ reduction per year:	approx. 260.000 kg

☞ Payback period less than 3 years.



Aluminium melting furnaces at Metallguss Brinschwitz GmbH (Rastatt)

The exhaust gas is routed to the Bomat high temperature exhaust gas heat exchanger and the thermal energy it contains is supplied to the heating system via a 25,000 l buffer cylinder.

Heat source:	6 melting furnaces – approx. 300 kW in total
Exhaust gas heat exchanger:	AWR O2-VG-1072-8-9-3 (year of manuf.: 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
CO₂ reduction per year:	approx. 34,000 kg

☺ Payback period less than 3 years.

YOU CAN FIND MANY MORE REFERENCES ON OUR WEBSITE.

☞ www.bomat.de/en/references



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