

Heat Recovery from Ladle Preheaters



MAPEKO
economical preheating

Product-Information 1

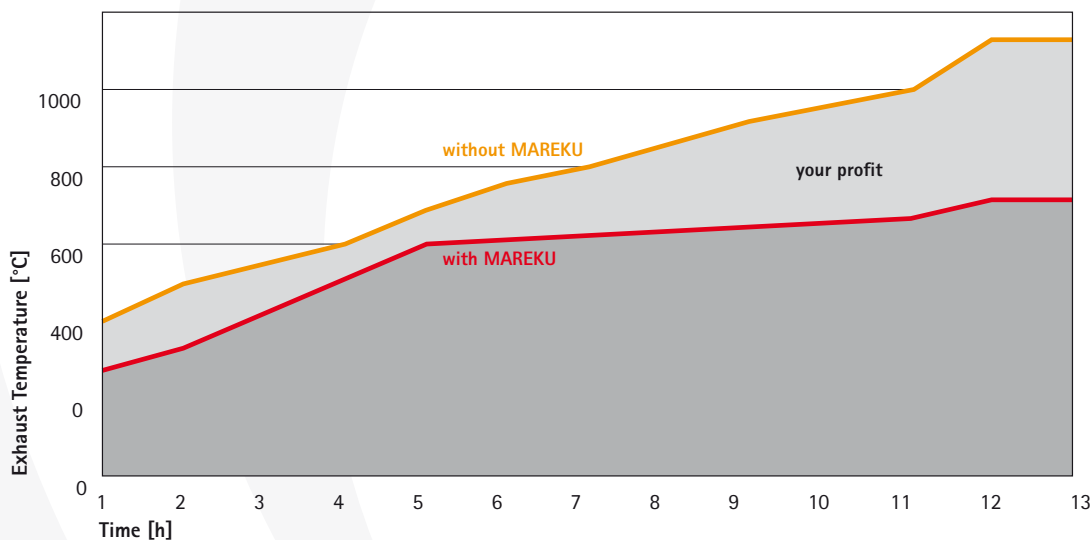
Energy savings with the MAREKU radiation recuperator

Special features:

- Fuel savings of approx. 25%
- Constantly high efficiency in continuous operation
- Low maintenance – even in case of strongly polluted combustion air or of residues in the exhaust gas
- Easy to clean – no dismantling necessary
- No danger of overheating – all materials are heat-resistant up to 1 100°C
- Long service life
- Best price-performance ratio for maximum energy savings

Recuperation during Tempering

(110 ton-ladle with pitch bonded dolomite lining)



The MAREKU radiation recuperator was especially designed for ladle preheaters, and has proven very successful in operational application.

Evaluated operating time:

1 400h within a duration of eleven weeks. This equals an operating time of more than 6 000 hours per year.

Energy

Fuel: Natural gas
Inlet press. = 40 - 50 mbar
Price = 0,23 Euro/m_N³

Preheating

Average consumption [m_N³/h]
Consumption per year at 6.000h [m_N³]
Annual gas savings [m_N³]
Annual savings [EUR]
Average savings

with MAREKU

78
468 000
132 000
30 370
22%

without MAREKU

100
600 000

BEP:

< 9 months