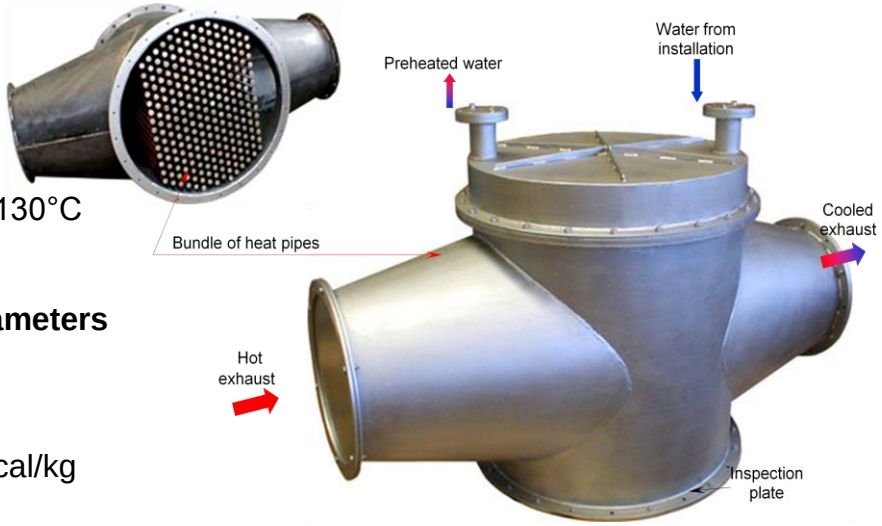
The first exchanger (Gas to Water) **based on technology “Heat pipes” in the Czech Republic - VITKOVICE-HEAVY MACHINERY – Forging plant**

This exchanger is used to generate hot water from a waste exhaust stream. The 2.3 Tonne unit was delivered onsite by Mid-August and will deliver a 90C stream of water at the rate of 24 Tonne's per hour.



Input Parameters
Exhaust gas inlet temperature 420°C
Exhaust flow rate 6000 Nm3/h
Hot water inlet temperature 70°C
Desired hot water outlet temperature 130°C
Hot water pressure 16 bar

Calculated or assumed design parameters
Exhaust outlet temperature 140 oC
Hot water mass rate 9,698
Hot water outlet temperature 130 oC
Exhaust average specific heat 0.25 Kcal/kg
Fuel Methane gas

Technical Characteristics
Heat Source - Exhaust Gas Heat Sink - Thermal Oil
Recovery rate 618,836 w
Exhaust outlet temperature 200°C

Unit Dimensions
Outer diameter 1100 mm
Height (between water connection ganges and inspection plate): 1,800 mm
Weight 2,200 Kg

Pipe Bundle
Pipe Spec – temperature resistant carbon steel smooth tubes ø 28 x 2.5 mm
No of pipes 550
Pipe length 1,700 mm