Newsletter HeatMatrix Group

Q4 2015

HeatMatrix®
TURNS WASTE HEAT INTO PROFIT

HeatMatrix polymer LUVO heat-exchanger increases the energy efficiency of a biogas fired boiler with 3,5%

Carlsberg

Carlsberg's brewery in Kiev, is front runner in the Carlsberg group with respect to energy savings and reducing carbon dioxide emissions. In Q2 2015 a polymer heat exchanger of HeatMatrix has been installed by an Ukrainian installation company at the brewery. Since then its has been operated 24/7.

The polymer heat-exchanger preheats cold combustion air using the waste heat from the corrosive flue gas after the economizer. The energy saving is approx. 300 kW at full load and has increased the boiler efficiency with 3,5% resulting in a CO2 emission reduction of 600,000 kg/year.

The HeatMatrix polymer LUVO heat-exchanger is, because of its material, very well capable to deal with corrosive flue gas which is formed when burning biogas. The installation in Kiev, is the first within the Carlsberg Group and already has drawn attention from many other companies in the region.

The HeatMatrix polymer LUVO heat exchanger installed on the LOOS steam boiler at Carlsberg, Kiev.

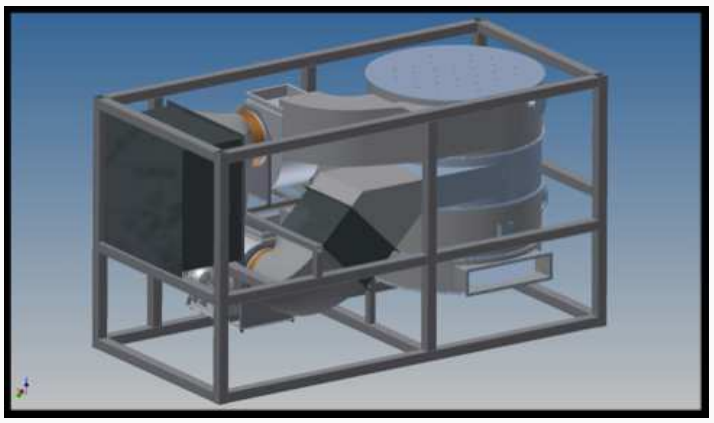
Heat from very corrosive flue gas is successfully recovered with hybrid skid at Sonac, The Netherlands.

The Sonac site in Burgum, The Netherlands, used to be part of the VION Food Group. Now it is part of the US based company Darling International. Sonac operates steam boilers that are fired with, amongst others, animal fat residues. The flue gas contains a high sulphur concentration that has led to severe corrosion problems with conventional metal heat exchangers in the past.

For this turnkey project HeatMatrix supplied a skid mounted hybrid LUVO heat- exchanger system that cools flue gas from 270 ºC to 140 ºC without the accompanying corrosion problems. The recovered waste heat is used to heat up the boiler feed water. The boiler efficiency has increased with approximately 8 %. Besides the increase in boiler efficiency also the emission of 1 million kilogram/year of CO2 is prevented.

The skid based HeatMatrix hybrid system includes a LUVO heat-exchanger with 31 polymer bundles, metal heat exchangers, fans, ducting and a PLC with instrumentation. The skid based setup makes it ideally for retrofit installation.

The skid in operation.



The design of the skid with 3 heat exchangers.

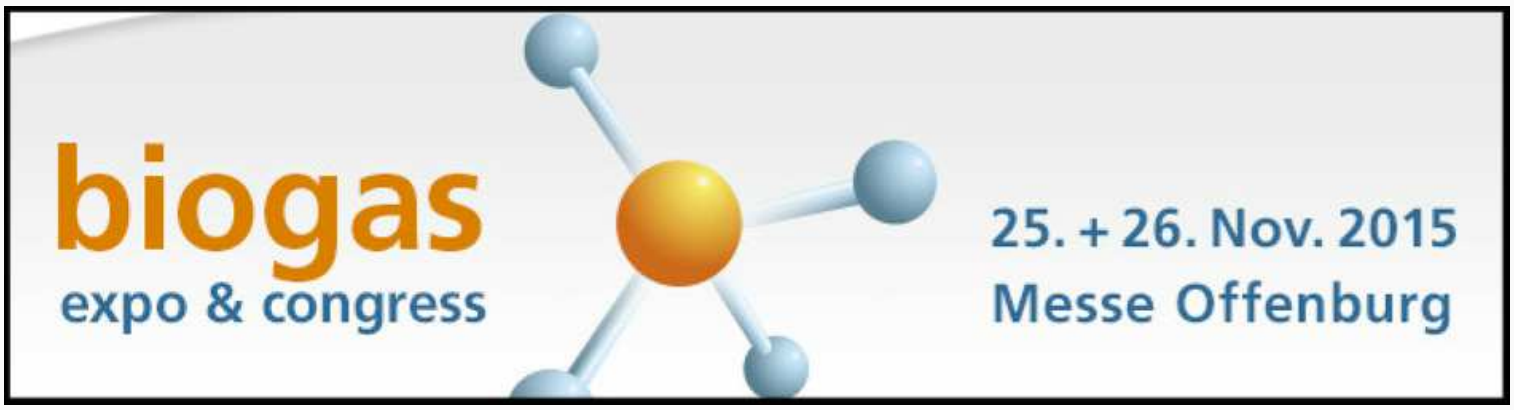
HeatMatrix presence at exhibitions & conferences in Q4-2015

ERTC (European Refinery Technology Conference) in Rome, Italy from 17 – 19 November.

HeatMatrix: 30 minutes presentation about the polymer heat exchanger technology in combination with metal air preheaters. Stand at exhibition hall.

Biogas expo & congress in Offenburg, Germany on 25 + 26 November.

HeatMatrix presentation: "Polymer heat exchangers to recover heat from acidic flue gas from burned biogas". Stand at exhibition hall.



NWGD symposium (Dutch Group for Drying Experts) in Wageningen, The Netherlands on 30 November.

HeatMatrix presentation: "Heat recovery from corrosive exhaust air from dryers with a polymer heat exchanger: a case study"

NWGD
Nederlandse droog experts groep

Copyright ©, All rights reserved.

Our mailing address is:
info@heatmatrixgroup.com

Want to change how you receive these emails?
You can update your preferences or unsubscribe from this list

www.heatmatrixgroup.com