



HeatMatrix® LUVO

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> Have you checked your stack temperatures recently?

The majority of the industrial stacks have high exit temperatures, which indicates a valuable opportunity for saving energy. With the right heat exchanger the lost energy can be recovered by integrating hot (flue) gas with cold (combustion) air. Efficiency improvements of up to 20% can be realized, which offers a significant energy cost and carbon emission reduction.

The HeatMatrix LUVO is a new generation 'gas/gas' heat exchanger that enables heat recovery from corrosive and fouling gas streams. This heat exchanger consists of lightweight corrosion resistant plastic modules instead of heavy and costly metal components. The counter current flow configuration recovers 20% more energy compared to existing cross flow exchangers and the low weight construction enables easy installation in existing plants.



> LUVO applications

- Industrial steam boilers
- Refinery & petro chemical furnaces
- Industrial drying processes (e.g. spray towers)
- Incinerators (e.g. regenerative thermal oxidizer RTO)
- Biomass and biogas fired boilers



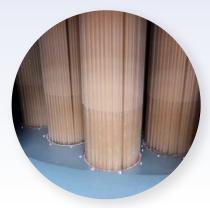
> LUVO properties

- 20% higher efficiency than existing LUVO's
- More compact than existing LUVO's
- Lightweight
- Corrosion resistant
- Easy maintenance









> HeatMatrix® LUVO

The HeatMatrix LUVO consists of plastic internals contained in a stainless steel or coated carbon steel frame. The heat exchanger is resistant to high temperatures and acidic components such as sulphuric acid and hydrochloric acid. Its size is equivalent to a 20 ft or 40 ft container [frame] and the complete assembly is pre-insulated. In order to provide for easy maintenance, retractable tube bundles are accessible via the top of the heat exchanger.

Flue gas volumetric flowrate [Nm³/hr]	LUVO Type	T _{design} [°C]	P _{design} [mbar]	$\Delta P_{typical}$ [mbar]	Length [mm]	Widh [mm]	Nozzle size [mm]
26,000	LUVO 45	200	100	5	4,000	2,200	600 x 1,000
41,000	LUV0 70	200	100	5	6,000	3,000	1,000 x 1,500 800 x 1,000
52,000	LUVO 90	200	100	5	7,000	3,000	1,500 x 2,000 1,200 x 1,200
70,000	LUVO 120	200	100	5	7,000	4,000	1,500 x 2,000 1,200 x 1,200
> 100,000	On request						

Contact information

Please visit our website for more information and the online business case calculator or contact a HeatMatrix engineer for professional advice on your energy saving opportunity.

HeatMatrix Group BV De Ooyen 15, 4191 PB Geldermalsen, The Netherlands

T : + 31 - (0)10 - 848 53 17 E : info@heatmatrixgroup.com

www.heatmatrixgroup.com