



Alfa Laval Aalborg Micro

Exhaust gas heat exchanger/steam generator



The Aalborg Micro is a compact exhaust gas heat exchanger/steam generator, designed for waste heat recovery from gas/MDO/HFO engines and gas turbines.

As a heat exchanger, the Aalborg Micro offers a wide range of opportunities, due to the fact that hot water, TEG and TFO can all be used as media.

A cylindrical unit in the center with an integrated regulation damper allows up to 80% of the exhaust gas to bypass the heating surface.

The heating surface can be cleaned easily via optional soot blower rings using compressed air/steam/water, or by a pyrolysis process in dry-run mode.

Technical data

Capacity	250 to 4500 kW
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Exhaust gas side

Maximum inlet temperature	535°C
Minimum outlet temperature	130°C
Pressure loss	<4,500 Pa

Media side - Aalborg Micro as heat exchanger

Through the tubes	Water/TEG/TFO
Quantity	Max. 160000 kg/h
Maximum pressure	37 bar(g)
Flow resistance	$P_{in} + \Delta P < 37 \text{ bar(g)}$
Minimum inlet temperature	60°C
Maximum outlet temperature, water	247°C
Maximum outlet temperature, TEG	247°C
Maximum outlet temperature, TFO	350°C

Media side – Aalborg Micro as steam generator

Through the tubes	Water/steam
Quantity	200 to 3000 kg/h
Maximum pressure	37 bar(g)
Pressure loss	$P_{in} + \Delta P < 37 \text{ bar(g)}$
Standard norm (Industrial)	PED
Class (Marine)	DNV/GL/ABS/Lloyds etc.

Geometry

Weight (incl. insulation)	400 kg to 3900 kg
Diameter (incl. insulation)	950 to 1870 mm
Height (incl. insulation)	1700 to 2800 mm
Media inlet/outlet header	DN100
Exhaust inlet/outlet header	DN450 to DN1000
Connections	Welded
Insulation	150 mm



The Aalborg Micro has a heating surface consisting of a number of coaxial tubes arranged in a vertical or horizontal cylindrical shell plate.



Through the years, Alfa Laval has delivered Aalborg Micro heat exchangers for a wide range of different applications.

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How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com