

Alustar: compact condensing aluminium heat exchanger



Application

Bekaert has designed a new family of condensing heat exchangers. Based on extensive experience in the condensing market, Bekaert has managed to concentrate all knowledge into this new line of heat exchangers. Top quality design for mass production. This new line is available for all boiler manufacturers.



Turning up the heat on energy efficiency

Discover our Alustar series

The Alustar is a compact, lightweight heat exchanger, specially designed for domestic applications. It has a top quality design and can be mass produced. This Bekaert heat exchanger is cast in aluminium, a very reliable material which has been used in the boiler market for more than 35 years.

Benefit exclusively from Bekaert's leading experience in the combustion technology!

Benefits

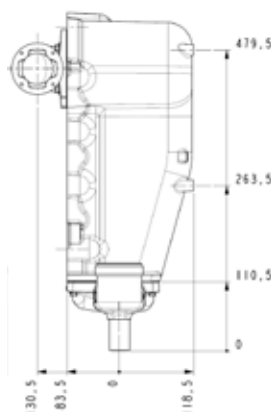
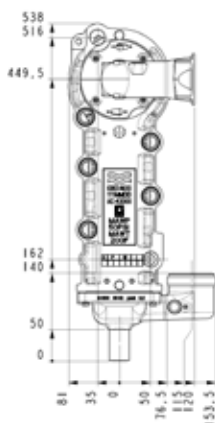
- Competitive pricing through mass production
- Full serial water flow which improves the reliability
- A fully water cooled combustion chamber; requiring no ceramic insulation
- Made from aluminium which has eight times the heat transfer coefficient of stainless steel, resulting in a very high efficiency

Specifications

- Compact and lightweight heat exchanger
- Designed for domestic applications
- It has a top quality design and can be produced in mass production
- The Alustar heat cells are equipped with Aconit® or Furipat® burners
- Available in capacities of 28 kW, 35 kW and 46 kW

	Alustar 28	Alustar 36	Alustar 46
Input maximum load (kW)	28	35	46
Input nominal load (kW)	24	32	40
Input minimal load (kW)	4,8	6,4	9
efficiency nominal load 80/60 °C (%) *	96,8	96,6	96,2
efficiency part load 36/30 °C (%) *	109,3	108,8	107,7
efficiency category EEC Directive 92/42	****	****	****
maximum flow temperature (°C)	90	90	90
operating pressure (bar)	0,8-3	0,8-3	0,8-3
width heat exchanger (mm)	170	176	193
height heat exchanger (mm)	428	428	422
depth heat exchanger	202	266	337
flow / return connection	Rp 3/4"	Rp 3/4"	Rp 1"
flue gas connection (mm)	ø80	ø80	ø80
Weight (kg)	9,8	13,2	17,8

* values are estimated



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