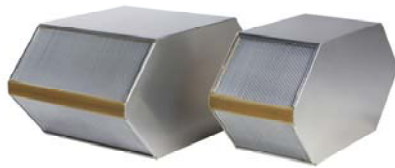
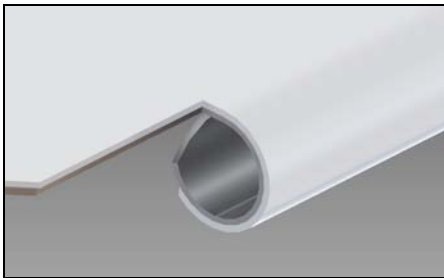


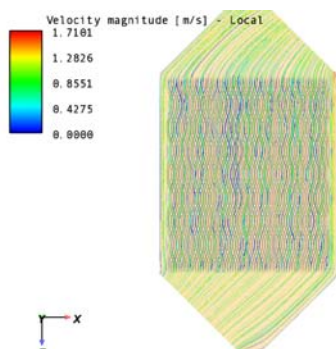
Revolutionary Alu Heat Exchanger for domestic ventilation



Alu Heat Exchanger



The sheets are rolled together making inlets and outlets stronger than other heat exchangers.



Through calculations, simulation with CFD (Computational Fluid Dynamics) and a huge amount of testing, we have found the optimal plate spacing.



The unique design of the heat exchanger core provides the heat exchanger with a very large surface area and thus a high efficiency.

CONSTRUCTION:

Dantherm Air Handling has developed a new revolutionary heat exchanger to be built into domestic ventilation units. The Dantherm heat exchanger is in raw aluminium with no sealing between the sheets. The sheets are rolled together making inlets and outlets stronger than other heat exchangers. This unique assembly method minimizes the risk of damaging the inlets and outlets when doing maintenance or replacement.

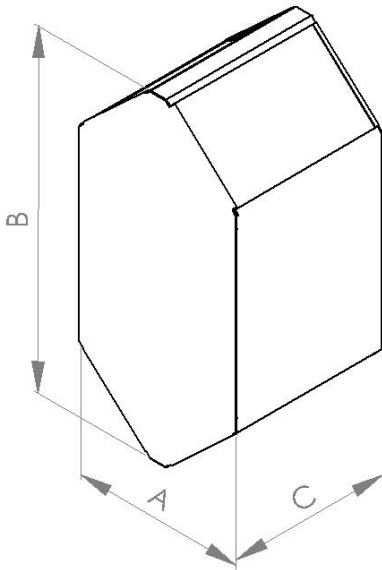
SPECIAL FEATURES:

- The unique core design provides the heat exchanger with a very low pressure drop.
- The cross-over leakage is the smallest possible on the market.
- All corners and ends are casted with a newly developed environment-friendly hot melt before the casing is mounted.
- With the tough in- and outlets, casted corners and ends together with the casing, the Dantherm heat exchanger is the toughest on the market.
- The unique design of the heat exchanger core provides the heat exchanger with a very large surface area and thus a high efficiency.
- In- and outlet areas are provided with guides to improve the air distribution in the core of the heat exchanger.
- The unique core design allows the condensate water to easily drip off. This will assure full air contact with the sheets and lower the pressure drop.
- Through calculations, simulation with CFD (Computational Fluid Dynamics) and a huge amount of testing, we have found the optimal plate spacing.
- In the Dantherm heat exchanger you will find no epoxy or sealing.
- The Dantherm alu heat exchanger is used in several home ventilation units which are approved by the German Passive House Institute.

APPLICATION:

The Dantherm alu heat exchanger are specially designed for use in home ventilation units. Dantherm has a range of home ventilation units which are equipped with alu heat exchangers and these home ventilation units are approved by the German Passive House Institute.

Patent pending



DIMENSIONS AVAILABLE:

A (mm)	A (inches)	B (mm)	B (inches)	C (mm)	C (inches)	Weight (gr.)	Weight (lb)
275	10 5/6	555	21 6/7	210	8 1/4	5002	11,0
275	10 5/6	555	21 6/7	250	9 5/6	5788	12,8
275	10 5/6	555	21 6/7	350	13 7/9	7642	16,8
275	10 5/6	555	21 6/7	400	15 3/4	8646	19,1
275	10 5/6	555	21 6/7	500	19 2/3	10522	23,2
275	10 5/6	555	21 6/7	600	23 5/8	12658	27,9

Other dimensions on demand

TECHNICAL DATA:

Material	Raw aluminium
Air leakage	<0,1% @ differential pressure of 250 Pa
Exchange efficiency	>88% (with normal condensation)
Max. differential pressure	1000 Pa
Min. temperature	-40°C (40°F)
Max. temperature	+80°C (176°F)

PRESSURE DROP:

