

ENTHALPY EXCHANGER BENEFITS

The Smart Choice for Your Customers

CUSTOMER SATISFACTION

Best indoor air quality in winter and summer, as well as energy savings ensure absolute customer satisfaction.

FLEXIBLE INSTALLATION

More flexibility in planning and installation due to less need for condensate drains and pre-heaters in most applications.



SAVINGS FOR CUSTOMERS

Due to moisture recovery, frost protection is only necessary from approx. -6° C. The frost-resistant CORE membrane is extremely robust.

UNIQUE MEMBRANE TECHNOLOGY

Our patented CORE polymer membrane prevents the transmission of contaminants such as viruses, gases and VOCs and is water washable.

Enthalpy Exchangers Provide Optimal Indoor Air Climate for Residential and Commercial Buildings!



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Enthalpy Exchangers

Energy Recovery at the Highest Level



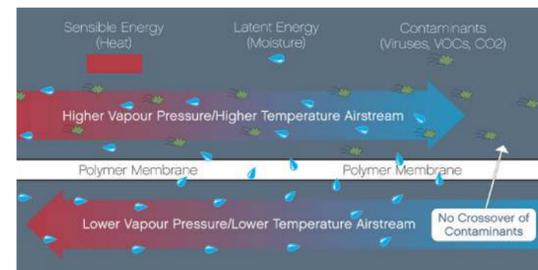
HIGH-QUALITY SOLUTIONS FOR AN OPTIMAL INDOOR CLIMATE

ENTHALPY FEATURES

Innovative Product Technology

CORE counterflow enthalpy exchangers transfer sensible (heat) and latent (humidity) energy using our CORE polymer membrane technology.

Extract air and intake air pass through the channels of the enthalpy exchanger in opposite directions. Osmosis principles are used to efficiently transfer humidity through the pore structures of our CORE polymer membrane in an effective and hygienic way. The innovative CORE polymer membrane is impermeable to all kinds of microbes. This innovative membrane allows energy transfer to occur whilst preventing the crossover of contaminants such as viruses, gases and VOCs.



COMFORT

- Highest sensible and latent recovery rates for more comfort and better indoor air quality
- Prevents dry heated air in winter
- Preheating the cold outside air in winter
- Frost-free and safe operation, even at outside temperatures below 0° C

HYGIENE

- Manufactured with a hygienic, mold and bacteria resistant, water washable polymer membrane (hygiene certified according to VDI 6022)
- Easy to clean (water washable) and maintain

ENERGY EFFICIENCY

- Long product life maintaining excellent recovery rates, optimal airflow behaviour and low pressure loss
- Up to 80 % heat recovery
- Up to 70 % moisture recovery

Water Washable Exchangers



ENTHALPY FOR ALL CLIMATES

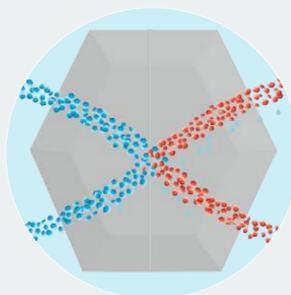
The Perfect Solution for the Whole Year

A proper ventilation system provides a controlled way of ventilating a building whilst minimizing energy loss and reducing the costs of heating. However, when using a ventilation system with a standard heat exchanger, valuable air moisture is removed from the

building, which causes unbalanced humidity and discomfort for the occupants. Enthalpy exchangers ensure comfortable and healthy indoor air quality for all climates due to the added feature of moisture recovery.

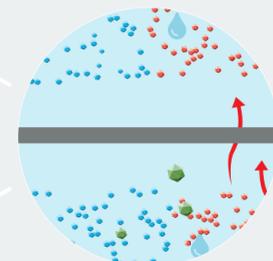
Enthalpy in Winter

In winter, both heat and moisture are recovered inside the building to ensure the optimal indoor air climate as well as allowing for savings on heating expenses.



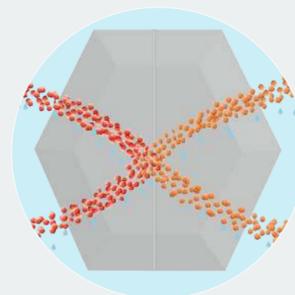
Patented Polymer Membrane

The patented polymer membrane acts as a separating layer between the air streams, allowing sensible (heat) and latent (humidity) transfer whilst ensuring the two airflows remain completely separate with no contamination.



Enthalpy in Summer

In summer, the heat and moisture are removed from the intake air, providing a pleasant reduction of the humidity inside.

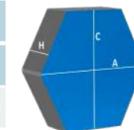


CORE PRODUCTS

For Your Ventilation Solution

With over 20 years of experience in developing energy recovery ventilation components, we are proud to offer our customers a diverse range of product specifications to meet their individual needs. With 9 enthalpy exchanger construction forms in more than 500 variants we offer the biggest product portfolio of counterflow enthalpy exchangers.

Series	Product Type	Name	Standard-Housing		Application areas		Dimensions			
			Metal	Plastic	Residential	Commercial	A (mm)	C (mm)	R (mm) (A+H+B-F)	H (mm)
C	Counterflow Enthalpy Exchanger	C-ERV201	x		x		204	234	224	50 - 300
		C-ERV313		x	x		318	138	338	50 - 400
		C-ERV366		x	x		366	366	386	90 - 500
		C-ERV389	x		x		397	172	417	50 - 500
		C-ERV446	x		x		455	230	475	50 - 500
		C-ERV450	x	x	x		460	280	480	50 - 500
		C-ERV488	x		x		496	271	516	50 - 500
L	Counterflow Enthalpy Exchanger	F-ERV529	x		x	x	537	312	557	50 - 500
		F-ERV750	x			x	758	533	778	100 - 500



If you are interested in a unique specification, we are the partners for you!

