

# Emån

## Rotary heat exchanger with enthalpy coating

**Humidity transfer in the transition seasons and during the winter  
for comfort ventilation systems**

**Healthy, pleasant air humidity  
Cost-effective humidity recovery  
Lower investment costs**

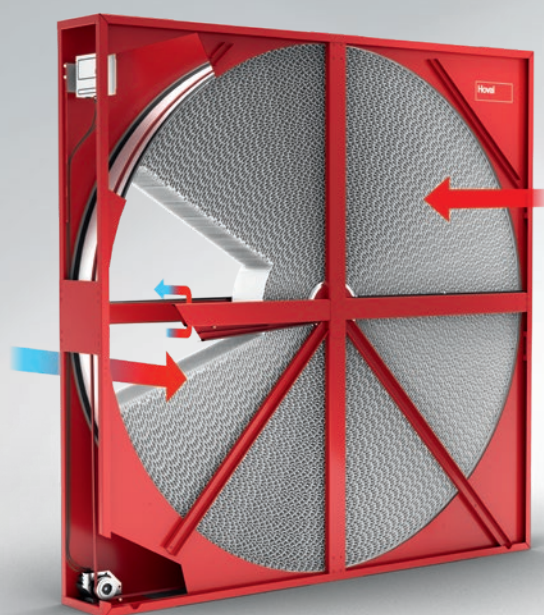


Enthalpy rotor  
for humidity transfer  
in the transition seasons  
and during the winter

# Hoval

# Emån

In detail.



Emån:  
The enthalpy coating is optimised for winter  
and the transition seasons.

Emån is our rotary heat exchanger with **enthalpy coating**.

This ensures a high level of humidity transfer in the transition seasons and during the winter, making the Emån especially well-suited to use in comfort ventilation systems.

## Healthy, pleasant air humidity

The pleasant air humidity has a positive impact on the room air, meaning no more dry skin, less dust and fewer pathogens, and no static charge.

## Cost-effective humidity recovery

As part of the focus on the requirements for comfort ventilation systems, a hybrid design is used in the Emån.

## Low costs for air humidification

The efficient humidity recovery system ensures that humidity is not lost from the extract air. The room air is not as dry and additional air humidification systems can be designed with smaller dimensions.

100% reliable, certified data:



## Emån: Technical data

Heat recovery efficiency (dry)	max. 87%
Humidity efficiency (in the summer)	max. 35%
Rotor diameter	up to 4200 mm
One-piece / sectorised pressure drop	max. 300/400 Pa
Pressure difference (supply air / extract air)	max. 1000 Pa

Subject to changes

### Healthy, pleasant air humidity

The room air is often too dry in the heating period in particular – that is, in the transition seasons and during the winter. Modern comfort ventilation systems need to counteract this.

With its effective humidity recovery, the Emån prevents the unpleasant consequences of overly dry air.

- No more dry skin and dry mucous membranes
- Dust-free air, as the dust particles are bound and sink to the ground
- No electrostatic charge

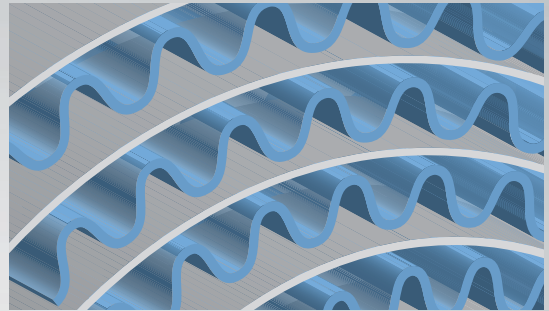


Pleasant air humidity due to effective humidity recovery: no more dry skin, less dust and no electrostatic charge

### Cost-effective humidity recovery

When it comes to comfort ventilation systems, effective humidity recovery in the transition seasons and during the winter is essential. The Emån's coating has been specially optimised to suit these times of year.

It comprises a special combination of a hygroscopic surface for selective humidity transfer and an aluminium foil. This hybrid design saves you investment costs while ensuring optimal humidity transfer all year round.



Humidity recovery all year round: Emån's combination of hygroscopic surface and aluminium foil.

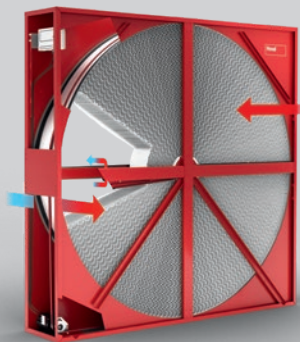
### Low costs for air humidification

The Emån transfers a large amount of humidity from the extract air to the supply air, especially during the winter. This means that the humidity is retained for the room air and additional air humidification systems can be designed with smaller dimensions.



Less additional air humidification required due to effective humidity recovery.

**Ask for advice today:** Tel. +423 399 2400 | [info.klimatechnik@hoval.com](mailto:info.klimatechnik@hoval.com) | [www.hoval-energyrecovery.com](http://www.hoval-energyrecovery.com).



### For even greater performance: the 250 mm wheel depth

For even greater performance requirements, other high-performance variants are available with a wheel depth of 250 mm. This offers outstanding efficiency in terms of energy recovery while maintaining a low pressure drop:

- Enhanced heat and humidity recovery
- Up to 20% lower pressure drop (compared to the standard version)
- Reduced dimensions of the AHU

### For additional applications: Hoval plate heat exchangers

- Crossflow and counterflow heat exchangers
- Air flow rates of 200–100 000 m³/h
- For ventilation centres, air duct systems and process technology
- Tried-and-tested Hoval quality





# Hoval energy recovery

## You can count on us.

As a specialist for energy recovery systems, Hoval is your experienced partner with decades of experience in the industry. Hoval develops and produces components for heat, cold and moisture recovery for today and tomorrow. The systems are used in ventilation systems and in process technology. You can be sure to save both energy and costs while protecting the environment.

Hoval is one of the leading international companies for energy recovery systems, which are exported worldwide.

We take our responsibility for the environment seriously.  
Energy efficiency is at the heart of what we develop.

## Responsibility for energy and environment



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