

# Decentralised indoor climate systems

Smart Factory Hub & Hoval



**Hoval**


# Solutions for heating, ventilation and heat recovery

**Hoval**  
Odgovornost za energiju i okoliš

Prijava » Country Pretražite

Rješenja | Proizvodi | Usluge | Tvrtka | Karijera

Rješenja za grijanje, ventilaciju i povrat topline iz Alpa.




### 3D budućnost projektiranja

Saznajte više o trendovima u projektiranju strojarskih instalacija i 3D modeliranju

Preuzmite BIM dokumente


**Konzultirajte se**  
☎ 01 4666 376  
✉ [web.hoval.hr@hoval.com](mailto:web.hoval.hr@hoval.com)  
✉ Pošaljite upit

**Najnoviji članci**  


28.2.2018.


**Komforna kućna ventilacija: nepotreban luksuz ili apsolutna nužnost?**

» Na naš blog

**Rješenja**  



Učinkovita i održiva rješenja za industriju, javne i stambene objekte. Provjerite naše studije i reference kako biste odabrali najbolju opciju.

» Više...

**Tehnologija grijanja**  



Sustavi grijanja s kondenzacijskim kotlovima, kotlovima na pelete, solarnim kolektorima i spremnicima potrošne tople vode.


» Više...


**Klimatizacija prostorija**  





Visokoučinkoviti decentralizirani sustavi za ventilaciju, grijanje i hlađenje velikih prostora uz minimalnu potrošnju energije.

» Više...

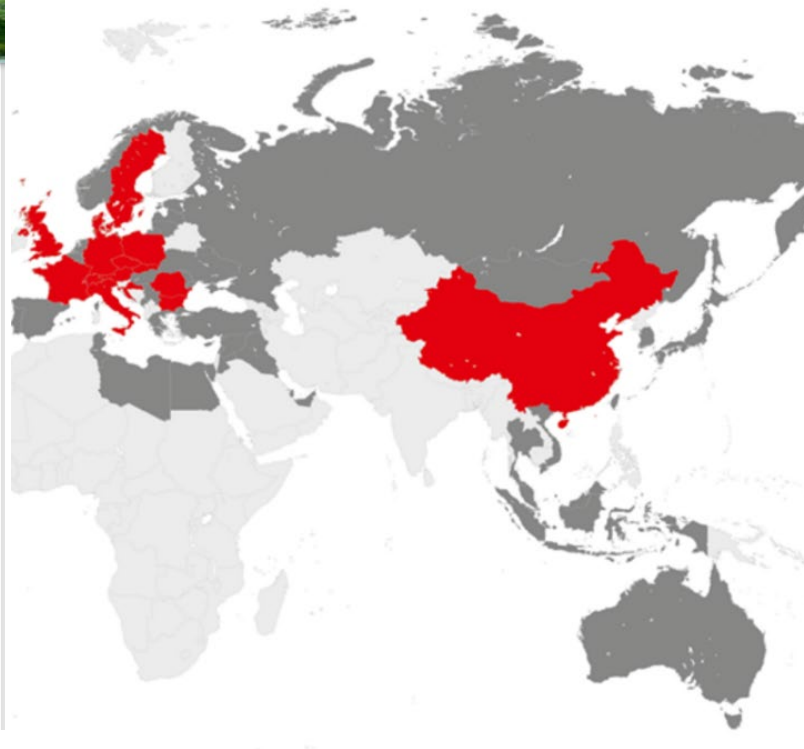
**Povrat topline**  


**Obiteljske kuće**  


**Kalkulatori**  


**Izabrali su nas:**  
  
  


[www.hoval.hr](http://www.hoval.hr)



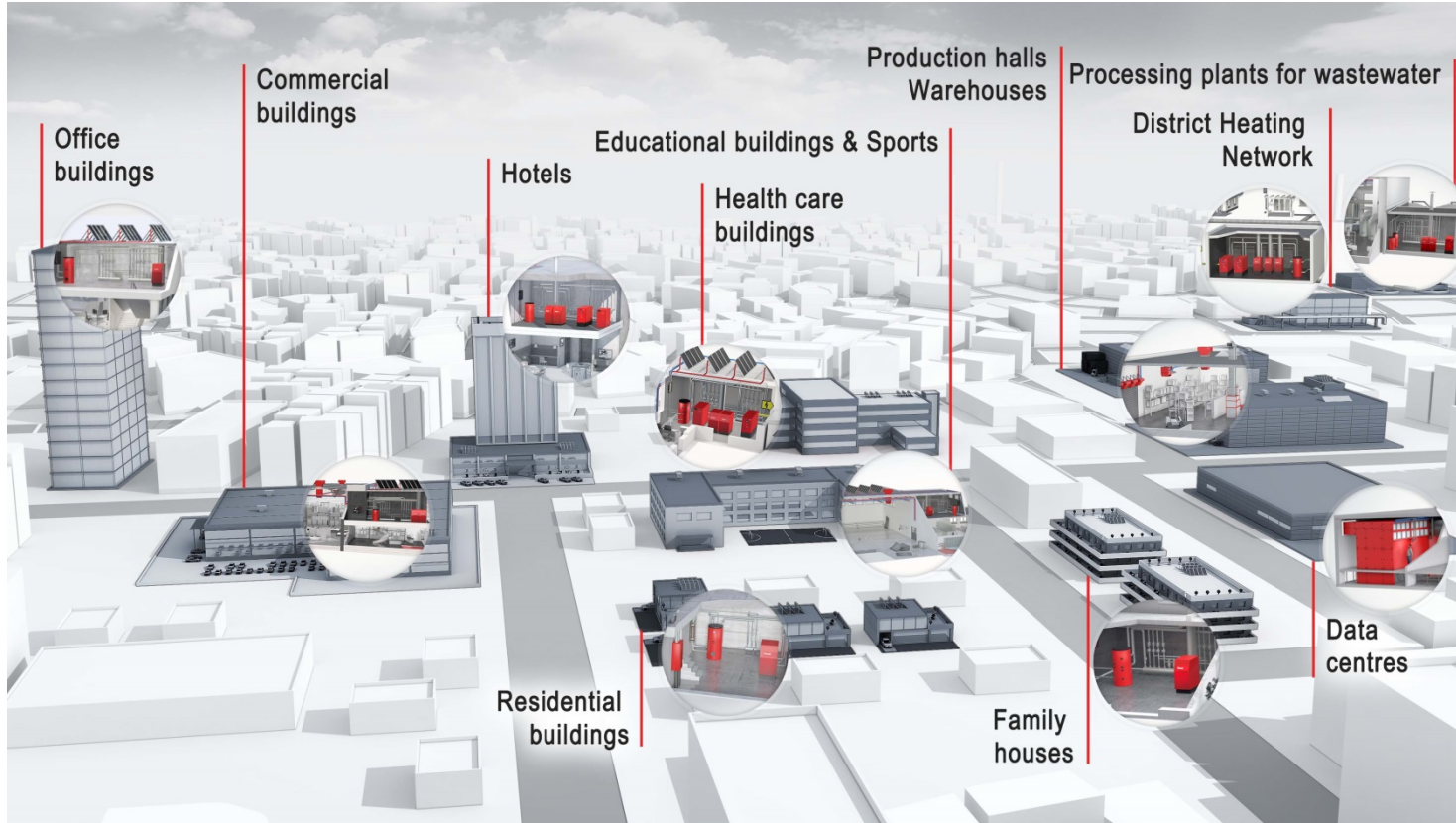
## Subsidiaries

Austria \*  
Bulgaria  
China \*  
Croatia  
Czech Republic  
Denmark  
France  
Germany \*  
Great Britain \*  
Italy  
Liechtenstein (HQ) \*  
Poland  
Romania  
Singapore  
Slovakia \*  
Sweden \*  
Switzerland

\* Production facilities

+ over 50 partners worldwide

# ... for any type of building



# ... with a wide range of innovative products

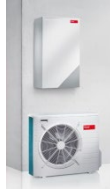
## Heating technology



Gas boilers



Heat pumps



Solar collectors



One control system



Comfort ventilation



Heating substations

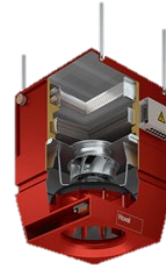


CHP



Hot water calorifiers

## Ventilation technology



Recirculation units



Supply and extract air handling units



Air processing units



Adiabatic cooling units



# Decentralised system



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## Large spaces in industry, halls and commerce



# Central vs. decentralised system

## ▪ **Central** systems

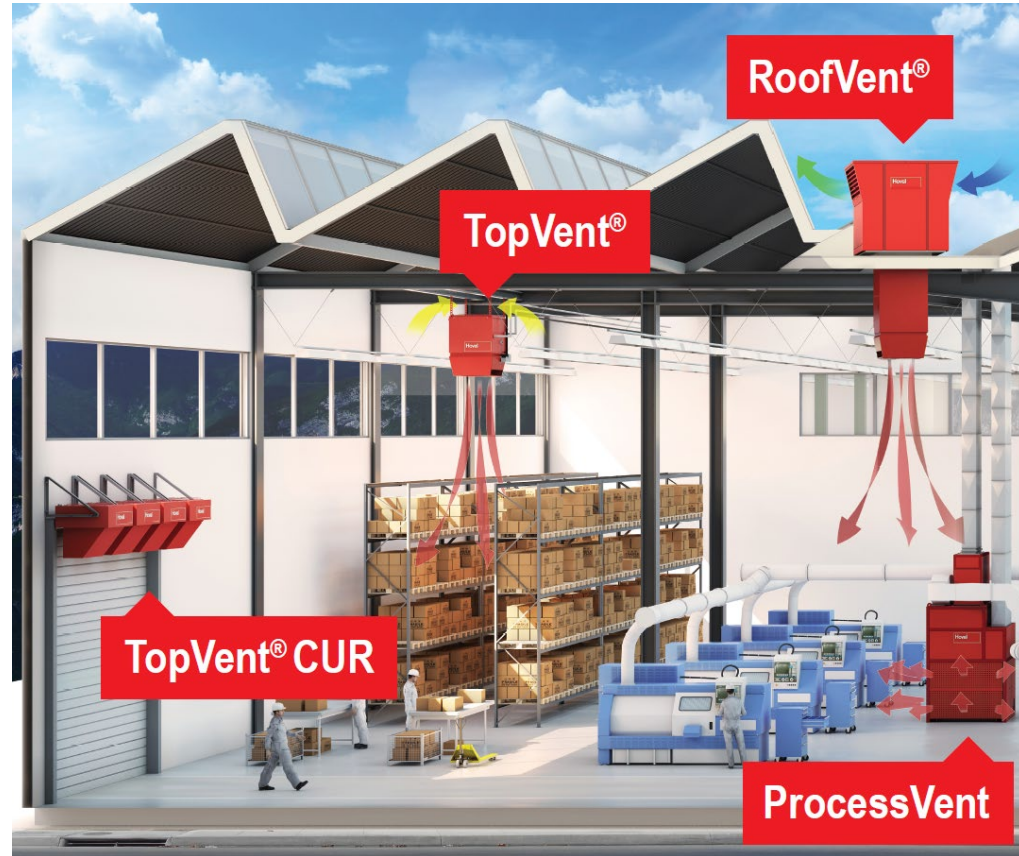
- Single ventilation unit
- Conditions air centrally
- Network of air ducts brings the air into the hall
- Weigh around three times more
- More complicated integration into manufacturing halls

## ▪ **Decentralised** systems

- Few smaller, less powerful ventilation units
- Units draw in the outside air, filter it, heat/cool & blow out into specific locations
- Duct-less system
- Lower weight, more cost-effectively
- Easier integration, service and new installations into manufacturing halls

# Key advantages of decentralised system

- ✓ Constantly clean and fresh air
- ✓ Flexible and reliable system
- ✓ Low running costs
- ✓ Need-based ventilation
- ✓ Less configuration work
- ✓ Less time for installation

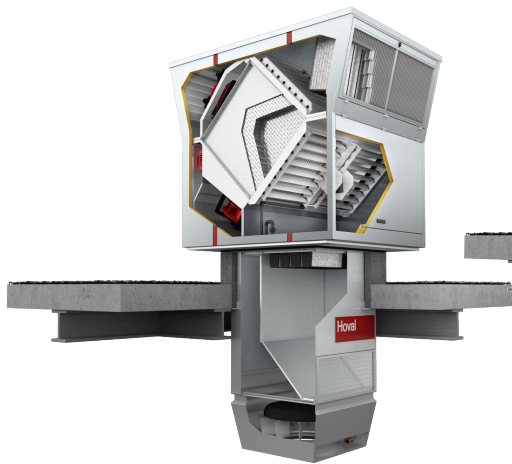




# RoofVent® R, RH, RC, RHC

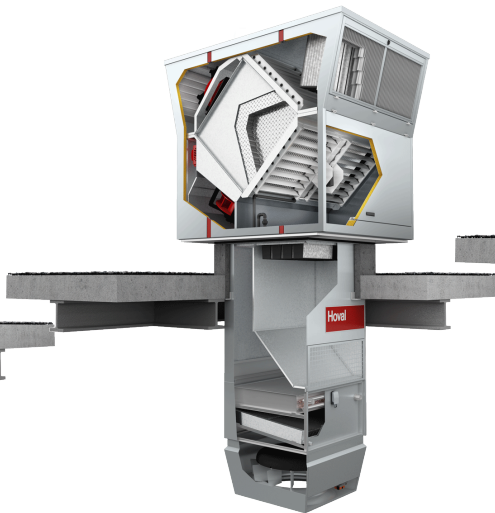
Fresh air supply → Extract air removal

RoofVent® R



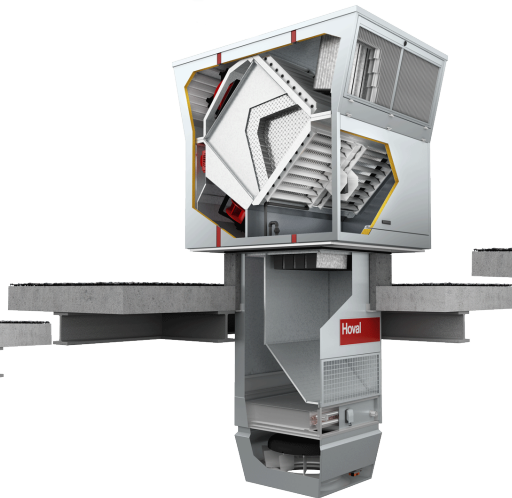
Supply & extract  
air handling unit

RoofVent® RC



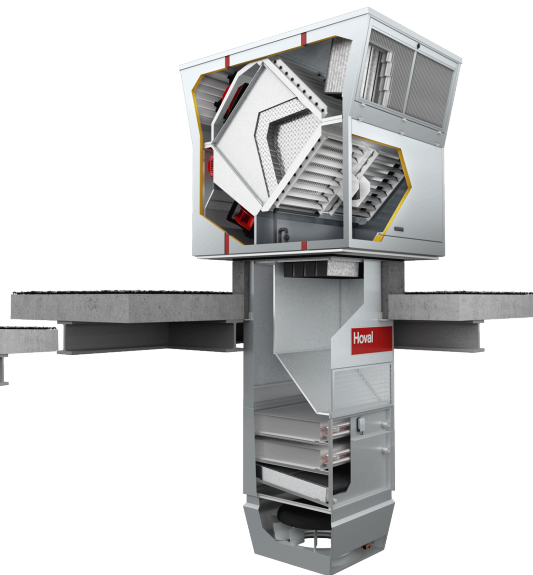
Heating and cooling  
2-pipe system

RoofVent® RH



Heating high  
spaces

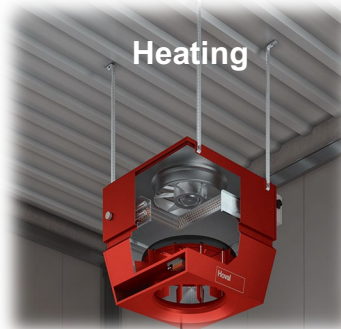
RoofVent® RHC



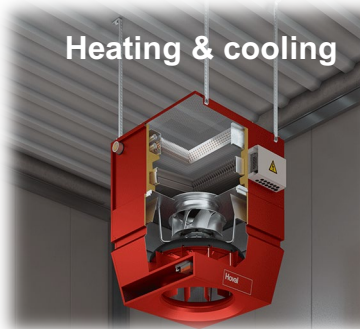
Heating and cooling  
4-pipe system

# TopVent® with EC fans

**TopVent® DHV**  
Recirculation unit



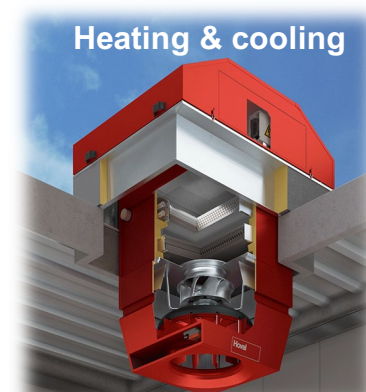
**TopVent® DKV**  
2-pipe system



**TopVent® NHV**  
↓ comfort requirements



**TopVent® CUM**  
Roof unit



**TopVent® CAU**  
Roof unit



EC fans

**Recirculation or supply air units for heating and cooling**

# TopVent® units

## TopVent® DHKV

4-pipe system

Heating & cooling

## TopVent® MH

Supply air unit

Heating & ventilating

## TopVent® MK

Supply air unit

Ventilating, heating  
& cooling

## TopVent® HV

Recirculation unit  
heater (up to 6m height)

## TopVent® curtain

EC fans

AC fans

# Pannonian wood competence centre reference



- **Decentralized climate systems** in the timber and wood-processing industry
- Ventilation and heating with **2 RoofVent® RH** and **2 TopVent® DHV** units
- Guaranteed fresh and clean air, high efficiency and low operating costs





# Solutions you can rely on.

With more than 70 years of experience, Hoval is internationally recognized as one of the leading manufacturers and suppliers of innovative heating, ventilation, cooling and heat recovery systems that conserve energy and the environment.

**Responsibility for energy and environment.**

**Hoval**