Hoval

RoofVent® RP
TopVent® TP | MP | CP | SP

Indoor climate systems
with decentralised heat pump

Simple | Reliable | Cost effective

R32

New! Now with R32

Hoval | Responsibility for energy and environment

RoofVent® RP ▪ TopVent® TP|MP|CP|SP
In detail.

Hoval indoor climate systems with decentralised heat pump

All of our Hoval indoor climate system unit types are available to you in combination with economical heat pumps. With the perfectly matched, modular system components, large halls can be efficiently ventilated, heated and cooled. Our Hoval indoor climate systems with heat pumps offer the following advantages:

- Simple
- Reliable
- Cost effective

The modulating heat pumps with a nominal output of between 40 and 76 kW are continuously regulated in line with the weather so as to adapt to the heating or cooling load required in the building. This ensures a high level of comfort and reduces running costs through efficient operation.

RoofVent® RP with heat pump P/Q
Supply and extract air handling units

TopVent® TP and MP with heat pump P/Q
Recirculation and supply air units

TopVent® CP and SP with heat pump P/Q
Recirculation and supply air units as roof units

Simple: to plan, implement and operate

- **Simple coordination:** Our systems consist of self-contained individual units with integrated heat pumps which combine heating, cooling and ventilation in one unit.
- **Simple planning and implementation:** Having just one Hoval contact person makes it easier to manage the whole project, from the planning stage through to commissioning.
- **Simple operation:** The preassembled units are quick to install and are easy to control via an intuitive user interface.

Reliable: constant, uniform temperatures in your hall

- **Reliable operation:** Self-contained units ensure a stable indoor climate – if one unit is undergoing maintenance, the others take over its function.
- **Constant indoor climate:** With their modular design and precise temperature control, decentralised systems are ideal for various single-storey hall types with heights up to 25 m.
- **Uniform temperatures without draughts or stratification:** The Air-Injector ensures uniform air distribution and prevents draughts, increasing comfort considerably.

A worthwhile investment for the future

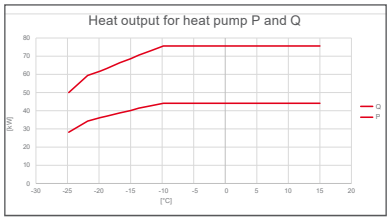
- **Heat pumps – a future technology:** Heat pumps use ambient energy and are virtually emission-free. They offer a sustainable, cost-effective solution that eliminates the need for fossil fuels.
- **Low operating costs:** Highly efficient heat pumps save on energy costs and can be combined with photovoltaic systems.
- **Maximum efficiency:** Decentralised systems minimise energy losses with short lines and optimised components.
- **Minimal energy losses:** The Air-Injector reduces the temperature difference below the roof, which keeps energy losses even lower.

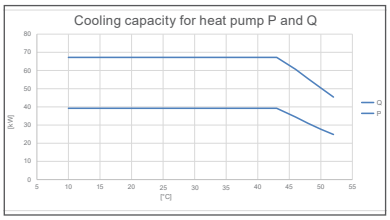
Heat pumps P and Q:
Modulating heat pumps in 2 output sizes allow the indoor climate system to be optimally adjusted.

Energy-efficient heat pump technology

The heat pumps used are evaporator coil systems. They transfer energy directly into the supply air flow in the ventilation unit, so there is no need for an intermediate circuit with additional heat exchangers and energy transfer media. This guarantees efficient energy transfer and saves on operating and investment costs.

The output of the heat pumps is continuously adjusted by inverter technology and steam-injection compressors deliver consistently high heat output and cooling capacities even at very low or high outdoor temperatures.





The Hoval indoor climate system heat pumps deliver consistently high heating and cooling capacities within a very wide temperature range.

Standalone units mean excellent operational reliability

Each ventilation unit has its own heat pump unit and is therefore independent of a centralised heat and cold supply. If one unit fails or is unavailable – in the case of maintenance work or a malfunction – it can be temporarily compensated for by the other units, thus ensuring excellent operational reliability for the entire system.

Decentralised indoor climate units with heat pump

	RoofVent® RP	TopVent® TP	TopVent® MP	TopVent® CP	TopVent® SP
Implementation	Supply and extract air handling unit for ventilation, heating and cooling with energy recovery	Recirculation unit for heating and cooling	Supply air unit for heating and cooling	Recirculation unit for heating and cooling with maintenance from the roof	Supply air unit for heating and cooling with maintenance from the roof

		RP-6	RP-9		TP-6	TP-9		MP-6	MP-9		CP-6	CP-9		SP-6	SP-9	
Air flow rate	m³/h	5500	8000		6000	9000		6000	9000		6000	9000		6000	9000	
Heat output	kW	44	44	76	44	44	76	44	44	76	44	44	76	44	44	76
Cooling capacity (total)	kW	40	40	67	40	40	67	40	40	67	40	40	67	40	40	67
Floor area covered	m²	480	797		537/953*	946/1674*		537	946		537/953*	946/1674*		537	946	

* for applications with low comfort requirements.

Hoval quality.
You can count on us.

Hoval

Hoval is one of the leading international companies for heating and indoor climate solutions. Drawing on more than 80 years of experience and benefiting from a close-knit team culture, the Hoval Group delivers exciting solutions and develops technically superior products. This leadership role requires a sense of responsibility for energy and the environment, which is expressed in an intelligent combination of different heating technologies and customised indoor climate solutions.

Hoval also provides personal consultations and comprehensive customer service. With around 2500 employees in 15 companies around the world, Hoval sees itself not as a conglomerate, but as a large family that thinks and acts globally.
Hoval heating and indoor climate solutions are currently exported to more than 50 countries.

Responsibility for energy and environment

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2025-04 | Subject to modifications

Your Hoval partner