

Air handling units

## Topvex HP range with integrated reversible heat pump

Comfort cooling and heating of ventilation air - all in one optimised unit



**topvex**

 **systemair**

## Topvex HP Range

# Revolutionizing Indoor Climate Control

Say hello to a smarter, more accessible way to manage your indoor climate. The Topvex Air Handling Unit (AHU) combines heating, cooling, and ventilation into one efficient, easy-to-use system.

### Why Choose Topvex HP?

What sets Topvex apart is its standardized design and predefined units. Unlike modular and fully customized systems, Topvex is ready-made for faster selection and ordering—making advanced climate control accessible to a broader audience. It's easy to specify, easy to install, and built for efficiency.

Topvex delivers fresh air, year-round comfort, and energy savings with minimal effort. Whether you're managing a commercial building or other spaces, it ensures a healthier indoor environment without unnecessary complexity.

With Topvex, comfort isn't a luxury—it's simple, efficient, and available for everyone.



# Key benefits

## ✔ **Predefined, compact design:**

- All information and specifications are ready upfront for simplified project planning, reducing time and effort.

## ✔ **Effortless installation:**

- Delivered fully assembled, factory-tested, and pre-filled with refrigerant - no need for outdoor condensers or complex pipework.
- Fits through a standard 900 mm door opening.

## ✔ **Energy efficiency Excellence:**

- Outstanding COP/EER values meet the highest energy efficiency standards, ensuring low operational costs while maximizing performance.

## ✔ **Space-Saving solution:**

- Compact footprint allows installation virtually anywhere, freeing up valuable space and enhancing property value.

## ✔ **Reliable cold-weather operation:**

- Operates seamlessly in temperatures as low as -20 °C without requiring a defrost cycle, maintaining high energy recovery and efficiency on even the coldest days.



# Features that optimise performance

## 1 Integrated reversible heat pump

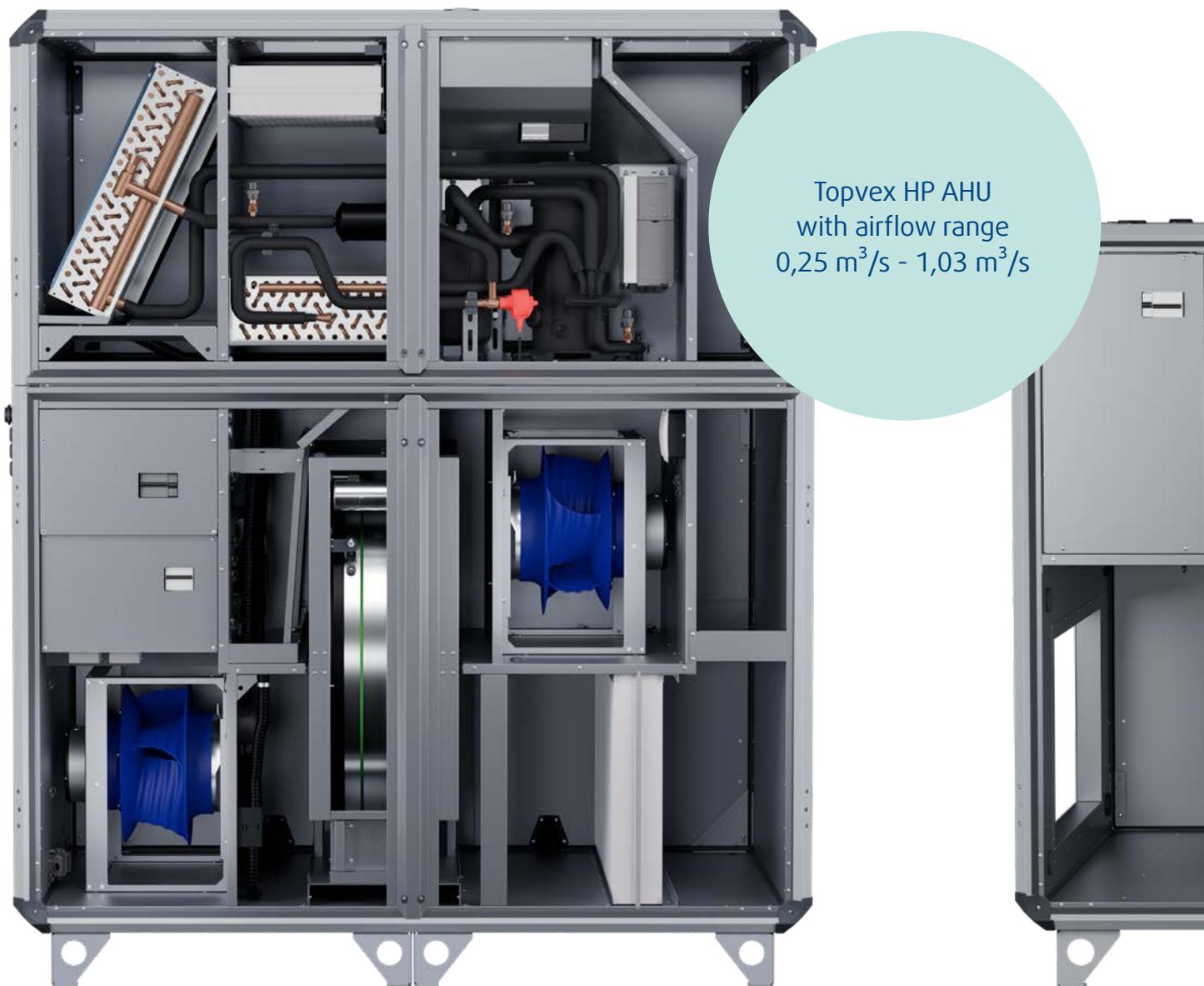
- Refrigerant R454B: Factory-tested and delivered prefilled with refrigerant.
- Frequency-controlled scroll type.
- Stepless control of cooling and heating capacity ensures precise regulation.
- Energy efficient: High COP/EER values and fans with high-performance EC motors.

## 2 Energy-efficient EC fans

Energy-efficient EC fans, available in composite or metal versions, deliver low noise levels and optimized specific fan power (SFP) values, ensuring minimal energy consumption.

## 3 Rotary heat exchangers

The rotary heat exchanger offers high heat recovery and low pressure drop, working in harmony with the heat pump. Dry efficiency up to 90%.



Topvex HP AHU  
with airflow range  
0,25 m<sup>3</sup>/s - 1,03 m<sup>3</sup>/s

#### 4 Coils offer low-pressure drop

- The extract and supply coils are hydrophilic treated.
- A drop eliminator is not required.

#### 5 Boost heater

When needed, seamless functionality even in temperatures as low as -20°C.

#### 6 Quality casing

- The casing panels are insulated with 50 mm mineral wool to thermal insulation standard
- T2/TB2.
- Corrosion resistance C5 (panels MgZn310).



Refrigerant  
**R454B**

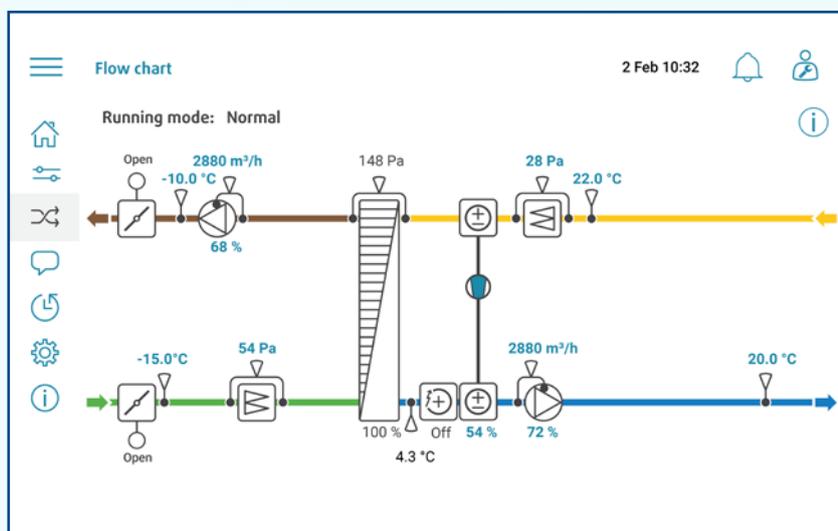


# Systemair Access Control system

Simplifies connection, configuration and control

- Choose your preferred device - control your units via your smartphone, tablet or if you prefer via handheld NaviPad.
- Modbus and BacNet communication - simplified connection setup to BMS/SCADA using Modbus and BACnet communication.
- Wireless communication - integrated WiFi and Bluetooth (BLE) enables a robust and user-friendly solution.

**By operating your AHUs efficiently you also gain control over your energy consumption and operating costs.**



## Energy insight

With the energy insight function, it's easier than ever to monitor energy usage for fans (SFP value).

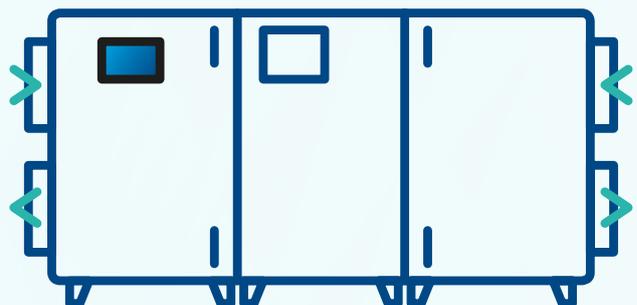


## Configuration wizard

An easy-to-use configuration wizard enables quick and simplified configuration of common AHU accessories and functions.

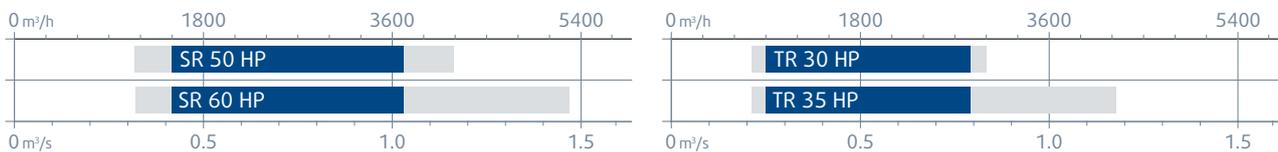
## Live data and dynamic flow charts

Relevant operating data and flow charts are easily available in real time and can be changed with a few taps.

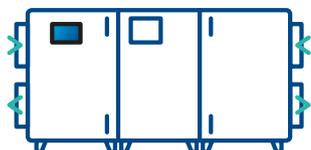


# Technical data

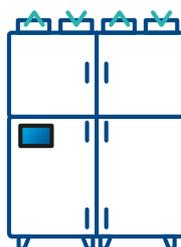
## Min./max. airflow



Heat pump working area with external pressure drop: ■ 150 Pa



**Topvex SR HP**  
- Side connected  
Side connected series with rotating heat exchangers for indoor/outdoor installation.



**Topvex TR HP**  
- Top connected  
Top connected series with rotating heat exchangers for indoor installation.

### Overall product measurements\*

Side connection	Duct size [mm]	Width [mm]	Height [mm]	Depth [mm]	Depth [mm]**	Divisible [mm]
SR HP 50	700 x 400	2586	1448	1128	1028	893 x 800 x 893
SR HP 60	700 x 400	2586	1448	1128	1028	893 x 800 x 893

### Overall product measurements\*

Top connection	Duct size [mm]	Width [mm]	Height [mm]	Depth [mm]	Depth [mm]**
TR HP 30	500 x 250	1604	1976	958	858
TR HP 35	500 x 250	1604	1976	958	858

\* Measurement does not include handles

\*\* Without back panels and doors

## Topvex HP\*

Model	Air Flow (m³/s)		Air Flow (m³/h)		Max Heating capacity (kW)	Refrigerant quantity R454B (kg)	Tonnes CO <sub>2e</sub>	Recommended fuse, whole unit (A)
	Min Flow	Max Flow	Min Flow	Max Flow				
TR HP 30	0.25	0.75	900	2700	14.0	2.5	1.2	3x20
TR HP 35	0.25	0.75	900	2700	14.0	2.5	1.2	3x25
SR HP 50	0.42	1.03	1500	3700	20.0	3.5	1.6	3x25
SR HP 60	0.42	1.03	1500	3700	20.0	3.5	1.6	3x25

\*Heat pump working area with external pressure drop 150 Pa.

