

Floor Standing Energy Recovery Units

**Topvex**

Easy. Quick. Compact.



**topvex**

 **systemair**



At Systemair we constantly strive to develop new solutions and products that offer a comfortable indoor climate in a cost-effective, sustainable way. Our time and cost saving solutions make life easier for engineers, contractors, and building owners.

The Topvex floor standing range is a good example. It stems from Systemair's ambition to provide an integrated solution that is easy to configure to suit customer needs, while ensuring easy installation and fast delivery.

# topvex

Exactly what you need!

EASY.

Selection, installation and intuitive control system

QUICK.

Wide range of standardized units with fast delivery

COMPACT.

Minimum space required with efficient performance



# YOUR VENTILATION PROJECT STARTS HERE!

## Topvex Floor Standing Range

The range comprises of two types of rotary energy recovery ventilators: top or side ducted, plus a special outdoor version.



### High energy efficiency, space-saving design

Topvex ERVs offer high energy recovery, >80% thanks to efficient sorption wheels. This combined with EC fans means low operating costs.

The units combine highest reliability with the smallest possible footprint. We selected the components to offer the performance we wanted, then optimized the size of the unit around them.



### Easy selection with Systemair Configurator

Select, design and configure air handling units for your project with this user-friendly software.



### Easy to transport

The standard unit has a small footprint and can fit through a standard door opening. Larger units can be divided into sections to make installation even easier.



### Easy to install

We set out to make installation really easy. The ERVs offer plug-and-play operation, with preconfigured integrated controls and easy start-up and commissioning using start-up wizard.

### Easy to control with Systemair Access

Systemair Access is the brain of the ERV. It simplifies connection, configuration and control, offering intuitive menu navigation and a configuration wizard.

### Wide range of accessories

Wide range of accessories available including connectors, such as flanges, extension cables, cooling coils or extra filtration

# Check out our Configurator

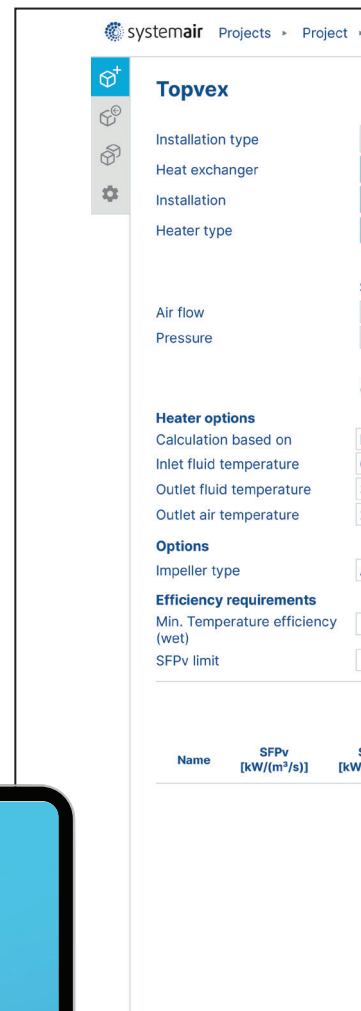
You can easily choose the best Topvex configuration for your project.

The Systemair Configurator makes selecting, designing and configuring your air handling units easy. The user-friendly interface helps you choose the right Topvex unit quickly, simply by entering the operating parameter working points.

Based on your input, the Systemair Configurator will calculate all relevant, project-specific parameters to find and select the optimal Topvex configuration and the ideal accessories for the project.

## Use your own design software with the Topvex plugin

Select and configure your Topvex ERV with just four simple commands, without leaving your CAD software! Our plugin for Topvex can be downloaded and used directly in Revit, AutoCAD and MagiCAD. It goes without saying that the plugin is free to use.



## The Systemair Configurator at a glance

- Easily select, design and configure your air handling units
- Obtain BIM data through plugin for Revit, AutoCAD and MagiCAD
- Create and download all relevant documentation

Search name or item number...

False ceiling **Side** Top

Rotating Counter flow None (supply unit)

Indoor Outdoor

**Water coil** Electric heater No heating

Supply Extract

1,080 1,080 m³/h

200 200 Pa

Temperature and Humidity

Fluid and Outlet air temperature

60.0 °C

30.0 °C

22.0 °C

All

%

kW/(m³/s)

Reset Search

SFPv (m³/s) Temperature efficiency (wet) [%] Heater capacity [kW] Supply temperature [°C]

No units found

Items per page 10



### Side

Side connected units are special designed for floor installation with optimised unit height, thus horizontal duct connections. All models have an insulated casing with integrated fans, filters, control system and heat exchanger. The model range has alternative re-heater variants and a various combination of accessories.

### Rotary

The rotary heat exchanger has a high efficiency up to 85%-90% depending on operating conditions. It can recover moisture and is the heat exchanger that requires the least space.

### Topvex SR

Compact unit with rotary heat exchanger in 5 sizes with airflows up to

Topvex SR is a series of compact units with rotary heat recovery.

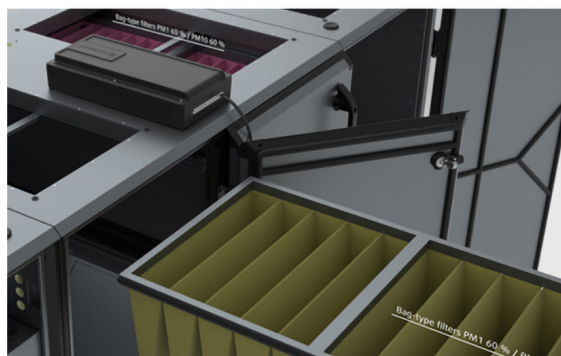
Topvex SR is equipped with efficient EC fans provide improved performance and energy efficiency.

The unit is available for constant controlled airflow and is supplied with controls to facilitate installation and commissioning. As standard several integrated possibilities for building management systems.

R  
RVT

A  
CAD

MagiCAD



| Extract   | Name                       | SFPv [kW/(m³/h)] |
|-----------|----------------------------|------------------|
| 1710 m³/h | Topvex TC20-R-HWL-B        | 2.43             |
| 175 Pa    | Topvex TC20-R-HWH-B        | 2.45             |
|           | Topvex TC25-R-HWL-B        | 1.85             |
|           | Topvex TC25-R-HWH-B        | 1.86             |
|           | Topvex TC35-R-HWL-B        | 1.61             |
|           | Topvex TC35-R-HWH-B        | 1.63             |
|           | Topvex TC60-R-HWL-B        | 1.21             |
|           | <b>Topvex TC60-R-HWH-B</b> | <b>1.22</b>      |
|           | Topvex TC70-R-HWL-B        | 1.08             |
|           | Topvex TC70-R-HWH-B        | 1.09             |

## CONSULTANTS

We understand your challenges

Topvex offers high energy efficiency and space-saving designs. Our wide standard range in terms of airflow and size will enable you to meet your specifications for projects of many types. It also allows us to offer fast delivery.

- Product selection tool with plugins for Revit, AutoCAD and MagiCAD
- BIM models for Topvex units can easily be integrated into the customer design ensuring the accuracy and reliability of the drawings.
- Indoor/outdoor flexibility: Choose outdoor installation to free up valuable indoor space without sacrificing performance
- With its minimum footprint, Topvex occupies less space in the building

### Rapid response

Tell us your requirements and we will give you the proposal you need – fast! Including project specific documentation, product data and price information. This saves you time when you create the project budget and project plan.

## INSTALLERS

Get the job done faster with Topvex

Choose Topvex and you can plan your installation project quickly and smoothly. Our standardised range with item numbers enables you to identify and order the correct units easily. QR codes on the documentation give easy access to relevant information and spare parts.

- Topvex ERVs are easy to handle during transportation and installation; bigger units can be split
- Two variants (Left/Right) mean less work onsite, saves time when installing
- External connection box, fast, easy connection, commissioning and maintenance
- Plug-and-play installation
- Easy start up with configuration wizard

Our lead times for Topvex are short and, of course, we will always respond quickly to your technical questions.



## BUILDING OWNERS AND MANAGERS

### Topvex offers low overall operating costs

Whatever your building, Topvex ERVs will provide a high-quality indoor climate that contributes to the health and wellbeing of the occupants. Attractive, frameless designs and a small footprint allow you to optimize the use of valuable space in the building without compromising performance.

- AHRI certified energy efficient component, energy recovery >80%
- Reliable operation, minimum maintenance
- Efficient filters, with filter monitoring that tells you when they need changing
- Our Topvex TR energy recovery ventilator have achieved Passivhaus certification, making them the ideal choice for projects prioritizing superior energy efficiency, comfort, and sustainability
- INTL (UL and CSA) certifications

## OUR APPLICATION AREAS



# Important features

Our attention to detail ensures safety and reliability.

| Casing performance EN1886 | Topvex new generation | Benefits                                                                                  |
|---------------------------|-----------------------|-------------------------------------------------------------------------------------------|
| Thermal Bridging          | TB2                   | Good resistance to condensation.                                                          |
| Thermal Transmittance     | T2                    | Reduced energy consumption in summer and winter.                                          |
| Leakage                   | L2                    | Leakage class with superior seal design.                                                  |
| Deflection                | D2                    | Stability and leak resistance with rigid, deflection class D2 casing assembly and hinges. |

## T2 Example:

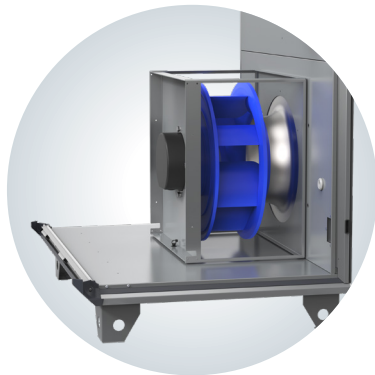
Typical impact on a 205 ft<sup>2</sup> (19 m<sup>2</sup>) casing with average outdoor temperature of 43°F (6°C). Improving Thermal Class from T3 -> T2 = Saving 500 kWh/year.

## Higher energy efficiency

Increasing energy efficiency in our products is at the top of our list of priorities. We have made innovations within our Topvex units to meet growing market demands in relation to Specific Fan Power (SFP) values. These have been achieved without compromising performance, offering the same air volume and minimal footprint.

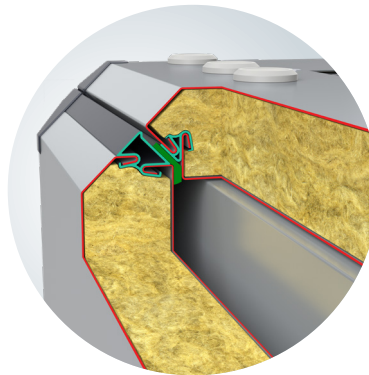
## Energy efficiency through:

- Heat exchangers with low pressure drop and high heat recovery
- EC fans with high efficiency and low SFP values
- Casing EN1886



## Energy efficient EC fans

Systemair plug fans are compact modules with high performance EC motors (running at 60 Hz) and high-strength plastic-composite wheels or metal wheels. EC motors and fans are selected to give the best noise and energy efficiency performance for each Topvex model.



## High-performance casing

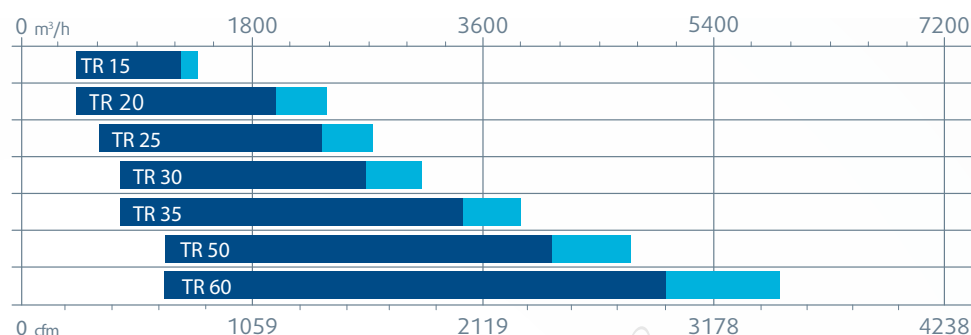
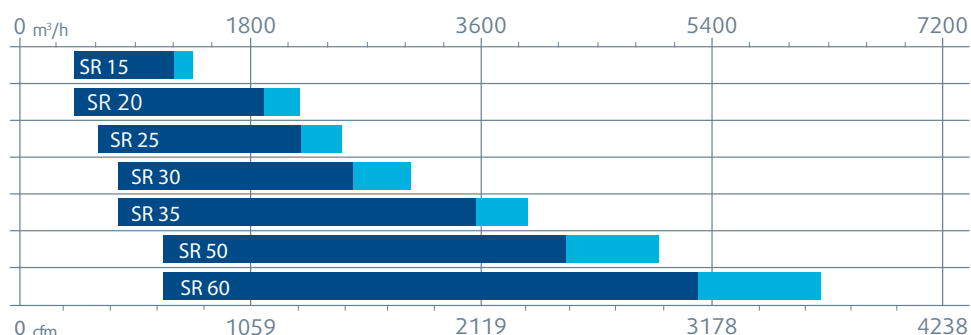
Our panels are made from 2" (50 mm) insulation and have natural-finish color magnesium-zinc (MgZn) plate with a corrosion class corresponding to C5 according BS EN ISO 12944-2 and BS EN ISO 9223.

The joint panel and plastic profiles, combined with latch, hinge, insulation and seal concepts, result in a high-performance unit.



# Technical data & dimensions

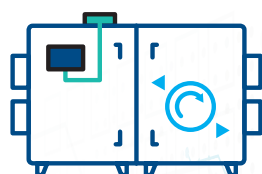
## Min./max. airflow



Air flow at 0.5 in.wc. (125 Pa) external pressure drop

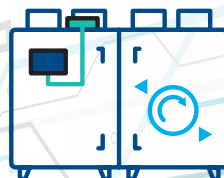


Air flow at 0.0 in.wc. (0 Pa) external pressure drop



### Topvex SR - Side connected

Side connected series with rotating heat exchanger for indoor/outdoor installations.



### Topvex TR - Top connected

Top connected series with rotating heat exchanger for indoor installations.

#### Overall product measurements\*

| Side connection | Duct size [mm] | Width [in] | Height [in]** | Depth [in] | Divisible [in] | Depth [in]*** |
|-----------------|----------------|------------|---------------|------------|----------------|---------------|
| SR 15           | Ø 315          | 54.5       | 42.5          | 29.5       |                | 26.2          |
| SR 20           | Ø 315          | 54.4       | 42.5          | 29.5       |                | 26.2          |
| SR 25           | Ø 400          | 58.3       | 46.5          | 34.0       |                | 30.7          |
| SR 30           | 500x400        | 63.2       | 51.0          | 37.7       |                | 34.4          |
| SR 35           | 500x400        | 63.2       | 51.0          | 37.7       |                | 34.4          |
| SR 50           | 700x400        | 70.3       | 57.0          | 44.4       | 35.2+35.2      |               |
| SR 60           | 700x400        | 70.3       | 57.0          | 44.4       | 35.2+35.2      |               |

#### Overall product measurements\*

| Top connection | Duct size [mm] | Width [in] | Height [in]** | Depth [in] | Divisible [in] | Depth [in]*** |
|----------------|----------------|------------|---------------|------------|----------------|---------------|
| TR 15          | 400 x 200      | 50.6       | 52.0          | 29.6       |                | 26.3          |
| TR 20          | 400 x 200      | 50.6       | 52.0          | 29.6       |                | 26.3          |
| TR 25          | 500 x 250      | 58.4       | 52.0          | 34.2       |                | 30.9          |
| TR 30          | 500 x 250      | 63.1       | 59.0          | 37.7       |                | 34.4          |
| TR 35          | 500 x 250      | 63.1       | 59.0          | 37.7       |                | 34.4          |
| TR 50          | 700 x 300      | 70.3       | 66.8          | 44.2       | 35.2+35.2      |               |
| TR 60          | 700 x 300      | 70.3       | 66.8          | 44.2       | 35.2+35.2      |               |

\* Measurement does not include handles; \*\* Access Control Cabinet is not included; \*\*\* Without back panels and doors

# A closer look at the Rotary range

Compact and energy efficient.

The Topvex range, featuring rotary energy exchangers with capacity well over 80%, ensures high efficiency while occupying minimum floorspace. The range offers you a wide range of options for configuring your energy recovery ventilator.

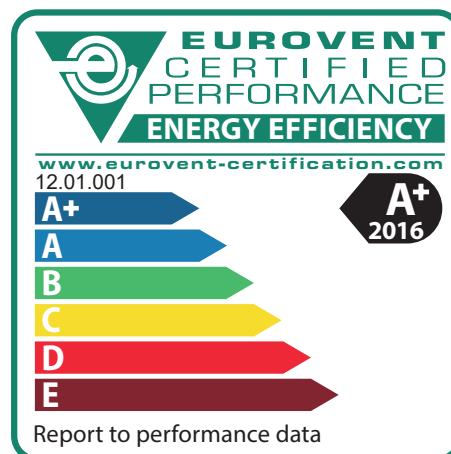
Sizes 15, 20, 25, 30 and 35 are all single case units, sizes 50 and 60 are split units.  
All units and sections can fit through a 36" (900 mm) opening.

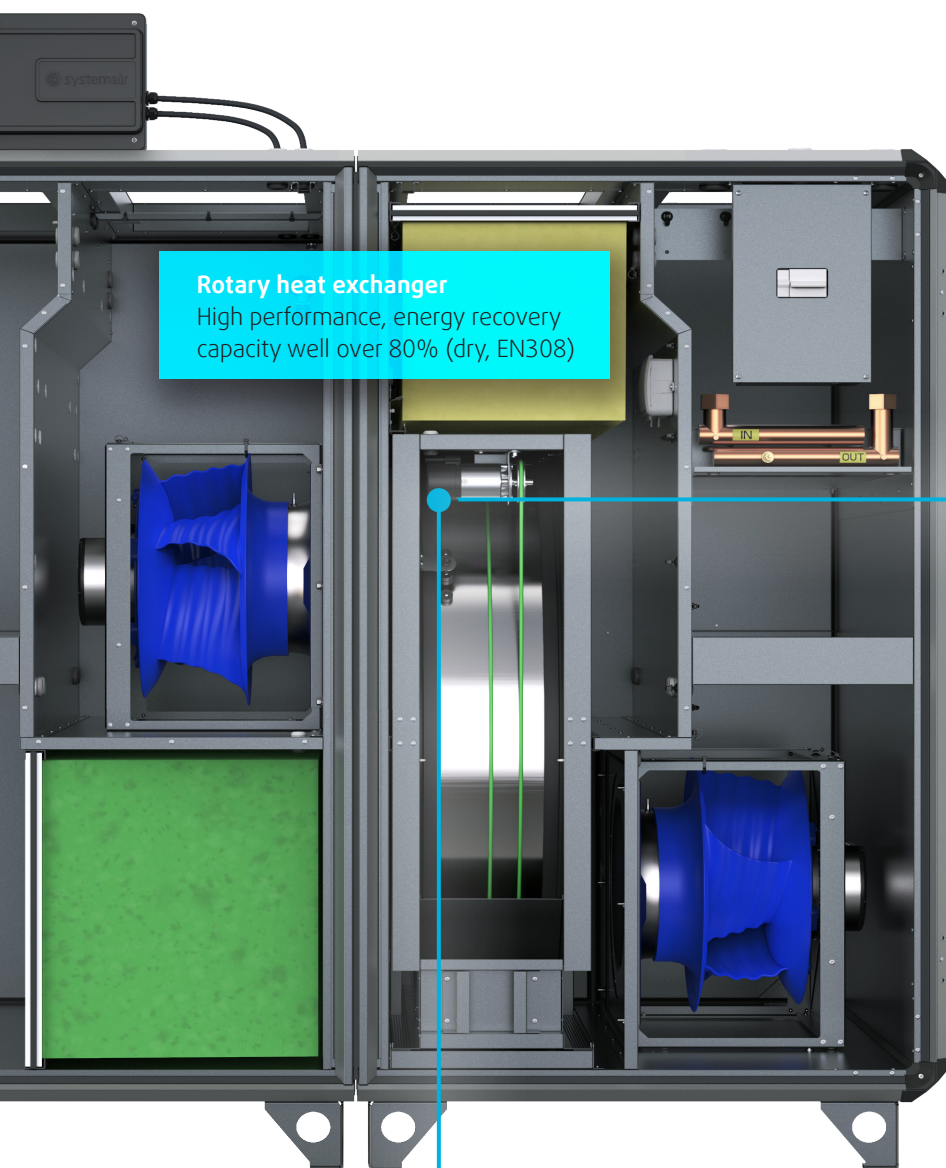
- Side-connected SR models, 7 sizes for indoor and outdoor applications
- Top-connected TR models, 7 sizes for indoor applications
- SR Airflow range: 248 up to more than 3,673 cfm\*\*
- TR Airflow range: 248 up to more than 3,473 cfm\*\*
- High-end casing with C5 corrosion resistance according to ISO 1294
- Built-in Access Control system
- Constant air volume control (CAV) is standard
- Variable air volume control (VAV) is available as an accessory
- Wide range of accessories available including connectors, such as flanges, extension cables, cooling coils or extra filtration

\*\* (0 Pa external pressure)

## Certificates

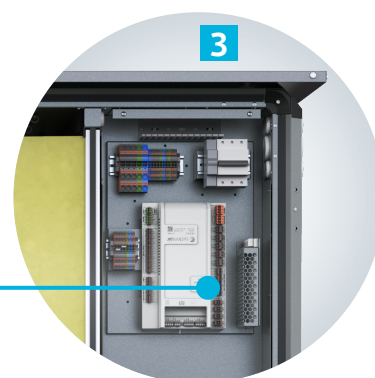
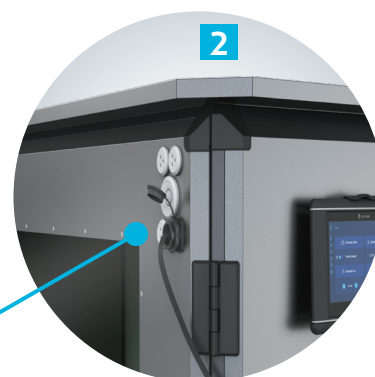
- Machinery Directive 2006/42/EC
- Ecodesign Directive 1253/2014
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- AHRI component
- CSA C22.2 No. 60335-2-40:22
- UL 60335-2-40 Ed.4
- CSA C22.2 NO. 60335-1:16 (R2021)
- UL 60335-1 Ed.6
- CSA C22.2 No. 113:18





### Rotary heat exchanger

High performance, energy recovery capacity well over 80% (dry, EN308)



### 1 Rotor motor

The rotor motor incorporates EC technology for more efficient energy recovery.

### Topvex units for outdoor application (SR model only):

- |                                                                                                                                      |                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>2</b></p> <ul style="list-style-type: none"> <li>• Roof</li> <li>• Easy connection (RJ45) for NaviPad Control panel</li> </ul> | <p><b>3</b></p> <ul style="list-style-type: none"> <li>• Access Control Unit placed inside the unit</li> <li>• Other accessories: louvres, protective hoods</li> </ul> |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Systemair Access Control system

Simplifies connection, configuration and control.

Our user-friendly Access Control System is the common platform for all Topvex models. It features ModBus communication to all internal components which significantly simplifies the cabling and wiring inside the unit. The Access Control Cabinet, used for indoor applications, can be placed on the outside of the unit or away from the unit using an extension kit. This allows easy access for service, maintenance and connection of external accessories. For outdoor applications, the Access Control Unit is built-in inside the unit.

## Designed by Systemair

Designed specifically for easy, quick and compact installation of Systemair air handling units.

## User-friendly navigation

Intuitive, easy-to-navigate menus can be used on a variety of devices including NaviPad, control panels, smartphones or computers. Access to information can be set to three different user levels, depending on roles.

SYSTEMAIR  
Access

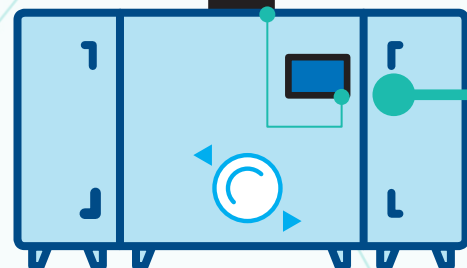
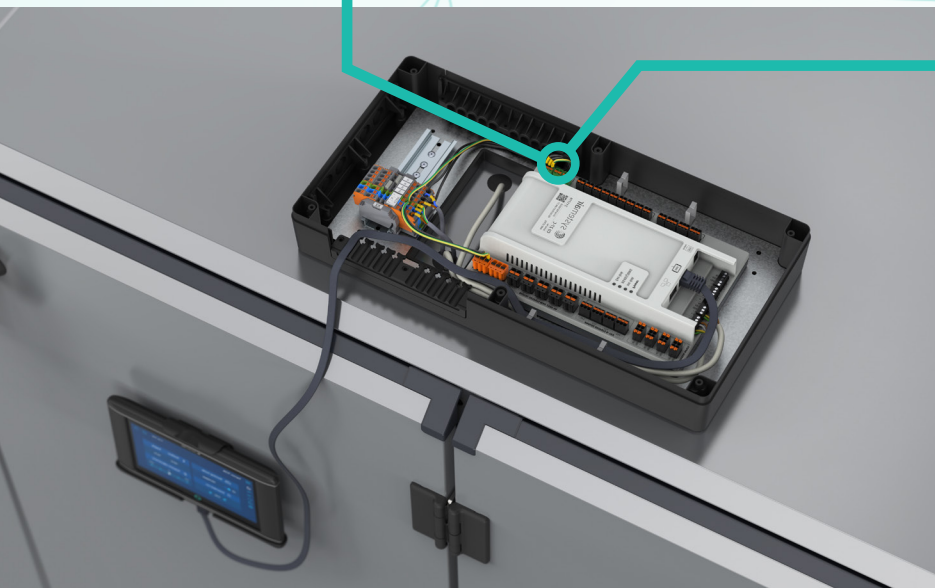


## Connectors for external components

All connectors for external components on the control unit are clearly marked and grouped together to reduce installation and startup time.

## Systemair Connect

Gather all your air handling units in an easy-to-use cloud service for complete overview and accessibility.



## Access benefits:

- Great user experience with intuitive menu navigation and configuration wizard
- External Access Control Cabinet with easy access to external connections
- Integrated support for BMS/SCADA using Modbus and BACnet communication
- Prepared for easy connection to Systemair Connect Cloud solution

### **Dedicated BMS connection**

Provides simplified connection setup to BMS/SCADA using Modbus and BACnet communication.

### **Bus-based field devices**

There are internal and external communication links for ModBus-based field devices. Wiring to all connected devices is simplified. All needed data and diagnostics are available in real time.



