



## SEPHYR

*Compact single-room ventilation system with an air flow rate of over 200 m<sup>3</sup>/h*



## SEPHYR

The SEPHYR series represents a new generation in the field of modern, integrated ventilation solutions for common spaces and offices, nurseries or commercial units, both for new builds and refurbishment projects. Thanks to its innovative design, the SEPHYR can be installed as a centralised or decentralised ventilation solution.



### Sustainable and quiet

An air flow rate of over 200m<sup>3</sup>/h with low input sound and integrated night cooling fulfil sustainability standards and ensure comfort.



### Wide range of connection options

Variable connection options for supply and exhaust air ensure maximum flexibility during installation.



### High energy efficiency

A heat recovery rate of > 90% reduces energy losses that occur during ventilation. At the same time, EC fans ensure low power consumption.



### Compact design

Featuring the most compact dimensions, a weight of only 18 kg and a mounting set to make installation easy and convenient.



### State of the art equipment

Summer bypass function, enthalpy heat exchanger, preheating regulator for frost protection and a central control unit included.



### Connection to building management system

Standard interfaces such as MODBUS and BACNET make it easy to connect to the building management system.

## SOPHISTICATED AND ENERGY-SAVING

### FUNCTIONAL PRINCIPLE

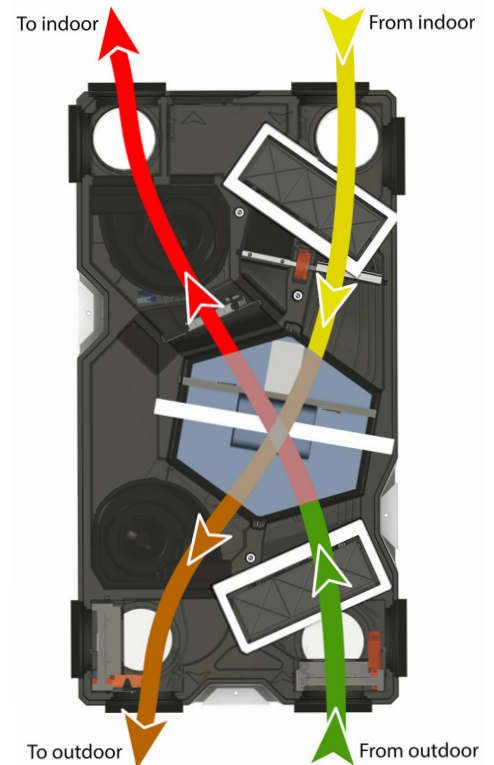
*Performance at the highest level*

Air flowing from outside passes through the filter and heat exchanger with the help of the integrated fan.

Exhaust air is extracted by the fan and discharged passing through the heat exchanger. Particularly in the winter months (cold season), the heat and humidity in the extracted air is transferred to the supply air via the enthalpy membrane of the heat exchanger. In this way, a considerable proportion of the energy generated during ventilation is recovered.

In the summer months (warm season), the process could be reversed. Fresh supply air is transported inside by the fan via the heat exchanger. The heat and humidity of the outside air are transferred to the exhaust air via the enthalpy membrane of the heat exchanger. Cooler and drier supply air flows into the room.

In the SEPHYR series, supply and exhaust air volume flows are completely separated. There is no transfer of impurities, odours or bacteria (germs).



## EFFICIENT AND INTUITIVE

### HEATING COIL, HEAT EXCHANGER, FAN UNIT

*The powerful trio*

At the heart of the SEPHYR range is an intelligent trio: a highly effective heating coil, an energy-efficient heat exchanger and a powerful fan unit. These three main components are the key to improved indoor air quality with efficient energy utilisation.

#### HEATING COIL

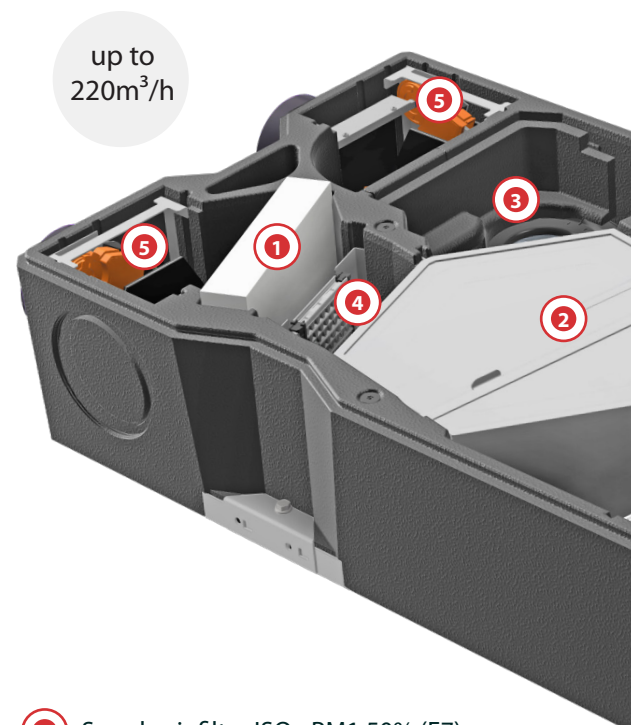
- Electric preheating coil for active frost protection in the winter months
- Dynamic adjustment of the heat output
- Reheater coil to increase supply air temperature (optional)

#### HEAT EXCHANGER

- Enthalpy membrane for passive heat and moisture recovery
- No condensation
- Low maintenance effort

#### FAN UNIT

- GreenTec EC centrifugal fan with integrated volume flow control
- Flow-optimised volute casing for ideal noise control



- 1 Supply air filter ISO ePM1 50% (F7)
- 2 High-performance enthalpy heat exchanger
- 3 Fan unit
- 4 Preheating coil
- 5 Reheater coil

## VERSATILE AND CUSTOMIZABLE

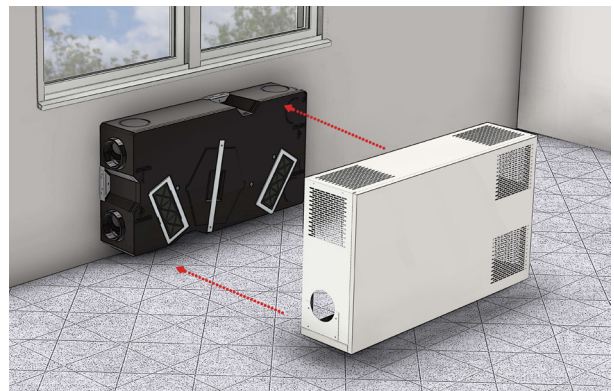
### SPECIAL FEATURES, EQUIPMENT

*Flexibility as required*

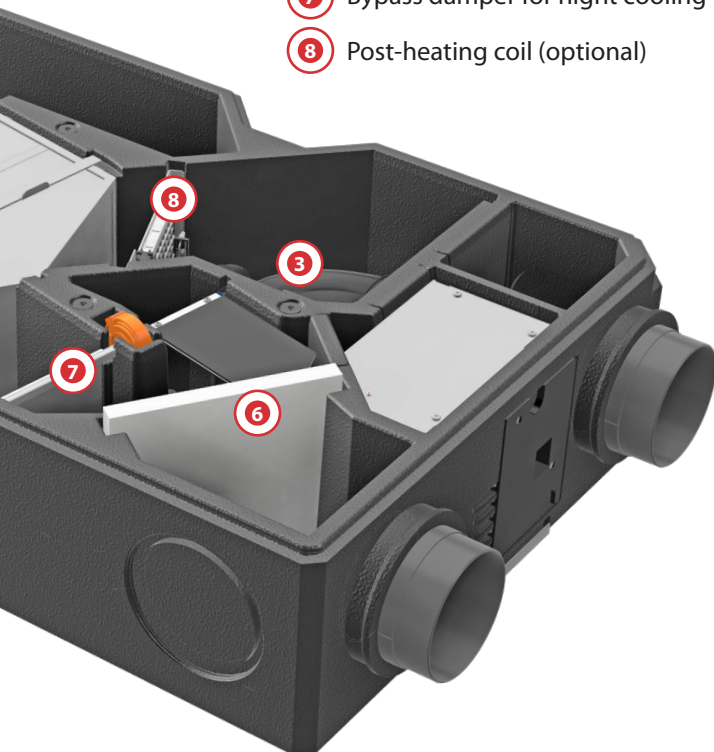
Tailored to the specific requirements and installation positions, the SEPHYR series offers up to 144 configuration options as well as a selection of optional components.

#### COMPONENTS / FUNCTIONS

- EPP housing with low net weight
- Summer bypass for convenient and energy-efficient cooling at night
- Integrated supply and exhaust air filters ISO ePM1 50% and ISO Coarse 60% as standard for optimum hygiene and appliance protection
- MODBUS and BACNET interface for connection to building management systems
- Emergency function in the event of a power failure
- Adequate mounting set for convenient installation
- Custom design cladding made of stainless steel similar to RAL9003, individual colour adjustment possible (optional)
- External CO<sub>2</sub> sensor (optional)



- ⑤ Adjusting flap(s)
- ⑥ Exhaust air filter ISO Coarse 60% (G4)
- ⑦ Bypass damper for night cooling
- ⑧ Post-heating coil (optional)



### ZS-SEPHYR COMFORT

*Functionality guaranteed*

The SEPHYR is operated via the supplied ZS-SEPHYR COMFORT control unit.

The intuitive and uncomplicated user interface of the control system enables effortless operation of the ventilation unit in just a few simple steps.



#### OPERATING UNIT

- 8 function buttons for optimum ease of use
- Large LCD display for a clear overview of all system functions
- 4 programmes / 4 air levels
- Further functions: time program, fireplace function
- KNX interface
- Integrated humidity and temperature sensor

## FLEXIBLE AND CUSTOMISABLE

### INSTALLATION AND PERFORMANCE

*Nothing is impossible*

The SEPHYR series can be installed both as a centralised or decentralised system and mounted vertically, horizontally or attached to the ceiling, offering exceptional flexibility and versatility. With its custom design cladding, the decentralised version enhances the aesthetic appeal while ensuring optimal comfort and an unparalleled air performance throughout.



#### SEPHYR 220

*Decentralised design*

- Air flow rate up to 220m<sup>3</sup>/h
- Custom design cladding
- Installation options:
  - Under the window (as an adjacent assembly or in the parapet cladding)
  - Next to a window or larger front window
  - Attached to the ceiling, integrated in the rooflight or in a coffering

#### SEPHYR 205

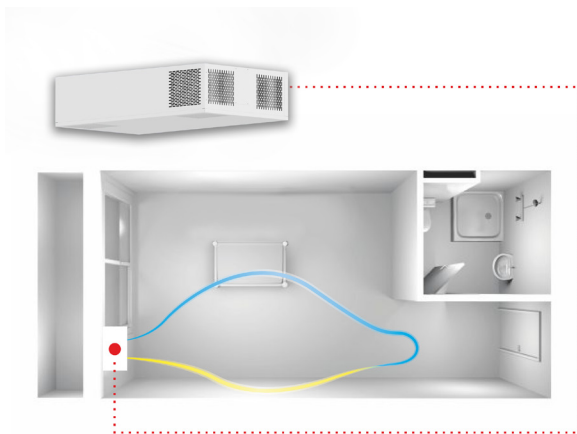
*Centralised design*

- Air flow rate up to 205m<sup>3</sup>/h
- Installation options:
  - Attached to the ceiling, integrated in the rooflight
  - In a coffering
  - In a suspended ceiling
  - In the boiler room

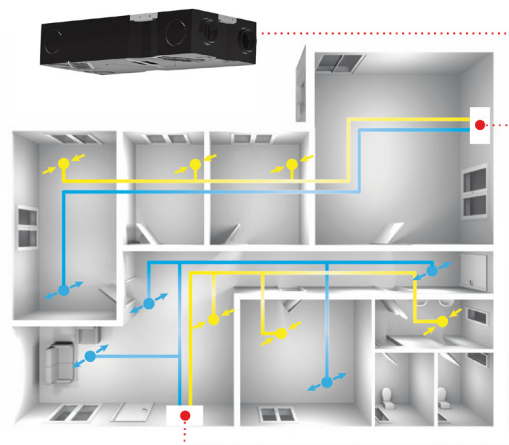
## PRACTICAL AND CUSTOMER-ORIENTATED

### APPLICATION EXAMPLES

*Decentralised or centralised solution*



*Decentralised: e.g. in the lounge/office room*



*Centralised: e.g. in the kindergarten*



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