

## FSL-B-ZAB/SEK



### SUPPLY AND EXTRACT AIR UNIT WITH HEAT EXCHANGER AND HEAT RECOVERY, SECONDARY AIR OPTION, FOR INSTALLATION UNDER THE SILL

Ready-to-operate decentralised ventilation unit that provides good comfort levels, used for the ventilation and extract ventilation of rooms

- Acoustically optimised EC fans with low specific fan powers, SFP-1 according to EN 13779
- Plate heat exchanger for heat recovery (air/air), including bypass damper with electric actuator (open-close)
- Heat exchanger for heating and cooling as 2-pipe or 4-pipe system
- Reduction of fine dust and pollen contamination due to integral filters that conform to VDI 6022 – F7 fresh air filter and G3 extract air filter
- Inspection panel simplifies filter change and cleaning of the heat exchanger
- Condensate drip tray with condensate drain
- Motorised shut-off dampers, normally closed (NC)
- Automatic switching to secondary air mode (based on air quality)

#### Optional equipment and accessories

- Modular control system FSL-CONTROL II, specially for decentralised ventilation systems
- Demand-based fresh air volume, free cooling and night purge, depending on control strategy
- Various fixing systems to fix the unit to the floor or wall
- Variable heat recovery
- Powder-coated RAL 9005



### Application

- Ventilation of rooms, preferably rooms with a depth up to 6 m
- 2-pipe or 4-pipe heat exchangers enable good comfort levels
- Inducing displacement flow
- Energy-efficient solution since water is used for heating and cooling
- For new buildings, refurbishment projects and revitalisation projects
- Installation under the sill
- Typical installation locations include offices and meeting rooms

### Special characteristics

- Recuperative heat exchanger for heat recovery, including bypass damper with variable electric actuator (open-close)
- Mechanical self-powered volume flow controller for limiting the fresh air flow rate
- Heat exchanger as 2-pipe or 4-pipe system, with G½" union nuts and flat seals
- Meets the hygiene requirements of VDI 6022
- Filter class: F7 for fresh air, G3 for extract air
- Easy filter change with quick release fasteners, no tools required; easy access to the heat exchanger for cleaning
- Condensate drip tray with condensate drain
- Compact construction, hence particularly suitable for refurbishment projects
- Demand-based ventilation is possible by means of monitoring the room air quality and with dedicated control equipment
- 4 levelling feet
- Motorised shut-off dampers for fresh air and exhaust air, normally closed (NC) in order to prevent uncontrolled airflows and the carry over of smoke
- Automatic switching to secondary air mode (only with an air quality sensor) if the room air quality (measured with the integral VOC sensor, for example) is between the previously defined range. The fresh air damper closes, the self-powered secondary air damper opens and the extract air fan is switched off. The unit always starts in secondary air mode, which is more energy efficient.

### Nominal sizes

- 1085 × 630 × 320 mm (B × H × T)

### Construction

- Powder-coated RAL 9005, black

### Useful additions

- Modular control system FSL-CONTROL II, specially for decentralised ventilation systems
- Connecting hoses

### Construction features

- 2 energy-efficient EC fans with low specific fan powers, SFP = 1 according to EN 13779
- Cross flow plate heat exchanger
- The supply air is discharged to the room as an inducing displacement flow from the lower front part of the unit
- Extract air or secondary air is taken in to the upper part of the unit

### Materials and surfaces

- Casing, filter chamber cover, fans and levelling feet are made of galvanised sheet steel
- Heat exchanger with copper tubes and aluminium fins
- Plate heat exchanger made of aluminium
- Casing powder-coated, black (RAL 9005)
- F7 filter medium made of moisture-resistant glass fibre paper (certified by Eurovent)
- Mineral wool lining to DIN 4102, fire rating class A, faced with glass fibre fabric as a protection against erosion, effective with airflow velocities up to 20 m/s
- Closed cell sealing strips

### Standards and guidelines

- Façade ventilation units of Type FSL-B-ZAB/SEK conform to VDI 6035 and VDMA 24390
- Hygiene certificate to VDI 6022
- Heating/cooling fluid conforms to VDI 2035
- Meets the requirements of EU directive 1253/2014 (ErP).
- Energy efficiency class A

### Maintenance

- VDI 6022, Part 1, applies (Hygiene requirements for ventilation and air-conditioning systems and units)
- The heat exchanger can be vacuumed with an industrial vacuum cleaner if necessary
- It can also be cleaned with commercial, non-aggressive cleaning agents

## TECHNICAL INFORMATION

Function, Technical data, Quick sizing, Specification text, Order code, Related products ^

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Variants, Dimensions and weight v

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Installation examples, Installation details, Basic information and nomenclature v

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### TROX UK Ltd

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Caxton Way,  
Thetford, Norfolk, IP24 3SQ, UK  
Tel: +44 (0) 1842 754545  
Fax: +44 (0) 1842 763051

General Enquiries –  
[info@troxuk.co.uk](mailto:info@troxuk.co.uk)  
Sales & Customer Services –  
[sales@troxuk.co.uk](mailto:sales@troxuk.co.uk)  
Accounts –  
[accounts@troxuk.co.uk](mailto:accounts@troxuk.co.uk)

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### Service-Hotlines

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Sales:  
+44 (0)1842 754545  
[Contact](#)

Service:  
+44 (0)1842 754545  
[Contact](#)

Technical service  
+44 (0)1842 754545  
[Contact](#)

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