FSW – Indoor air quality series
Filtered air for enclosed spaces. Designed to deliver filtered air for a wide range of applications, the Filter Supply Wall (FSW) series is for use where direct intake is limited or impractical. Typically these areas include classrooms, auditoriums, libraries, computer rooms, and switch rooms.

Driven by EC motors with sealed for life bearings, the high efficiency backward curved impellers make the FSW series an energy-efficient choice. The series uses a high-efficiency EC motor with integrated motor protection and is suitable for demand control and monitoring devices like pollutant sensors. Additionally, the FSW series have optional external controls and Building Management System (BMS) integrations. Our easy maintenance filter system ensures simplicity and practicality.
Features & benefits

- Washable
- G4 filter
- Superior sound performance

- 10K Potentiometer for easy commissioning
- Sensor input
- 0 - 10 volt input signal
- High efficiency EC backward curved impeller
- Thermal overload protection
- Quick fix clips for easy maintenance

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<th>Fan</th>
<th>dB(A) @3m</th>
<th>Shaft Revs/sec</th>
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<th>Amps</th>
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Ancillaries – EC-Basic

Room controller for EC fans in 4 versions for control of temperature, humidity or CO2 and temperature 0-10V.

EC-Basic-T
Temperature controller

EC-Basic-U
Universal controller

EC-Basic H
Humidity controller

EC-Basic-CO2/T
CO2 and temperature controller

The controller compares room temperature with an adjustable set point and regulates a 0..10 V output signal applied to a ventilator with a PI algorithm in direct or reverse action based on jumper JP1 setting:
JP1 closed 1-2 = heating (reverse action)
JP1 closed 2-3 = cooling (direct action)
The range for knob set point is from 5 to 30° C.

The controller compares input signal with an adjustable set point and regulates a 0..10 V output signal applied to a ventilator with a PI algorithm in direct or reverse action based on jumper JP1 setting:
JP1 closed 1-2 = reverse action
JP1 closed 2-3 = direct action.

The controller compares room humidity with an adjustable set point (SW1) and regulates a 0..10 V output signal applied to a ventilator with a proportional algorithm in direct or reverse action based on jumper JP1 setting:
JP1 closed 1-2 = reverse action
JP1 closed 2-3 = direct action.

The controller compares room temperature with an adjustable set point (knob) and regulates a 0..10 V proportional integral INTERNAL 1 SIGNAL in direct or reverse action based on jumper JP1 setting:
JP1 closed 1-2 = heating (reverse action)
JP1 closed 2-3 = cooling (direct action)

The controller compares also CO2 with an adjustable set point (SW3) and regulates a 0..10 V proportional INTERNAL 2 SIGNAL in direct action.
The output signal applied to a ventilator is the maximum between INTERNAL 1 SIGNAL and INTERNAL 2 SIGNAL.
The range for temperature knob set point is from 5 to 30° C.
Performance data

Sound test data

**FSW190-VEE**

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**FSW280-VEE**

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Technical drawings

To fit wall thickness max. 220mm

Wiring for ancillaries – EC-Basic