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 medical facilities, classrooms, auditoriums, 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 F5 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

Fan	dB(A) @3m	Shaft Revs/sec	kw	Amps	Weight Kg
FSW190-VEE	44	53	0.08	0.75	28
FSW280-VEE	47	32	0.17	1.40	29

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

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.

EC-Basic-U

Universal controller

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.

EC-Basic H

Humidity controller

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.

EC-Basic-CO^2/T

CO2 and temperature controller

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:

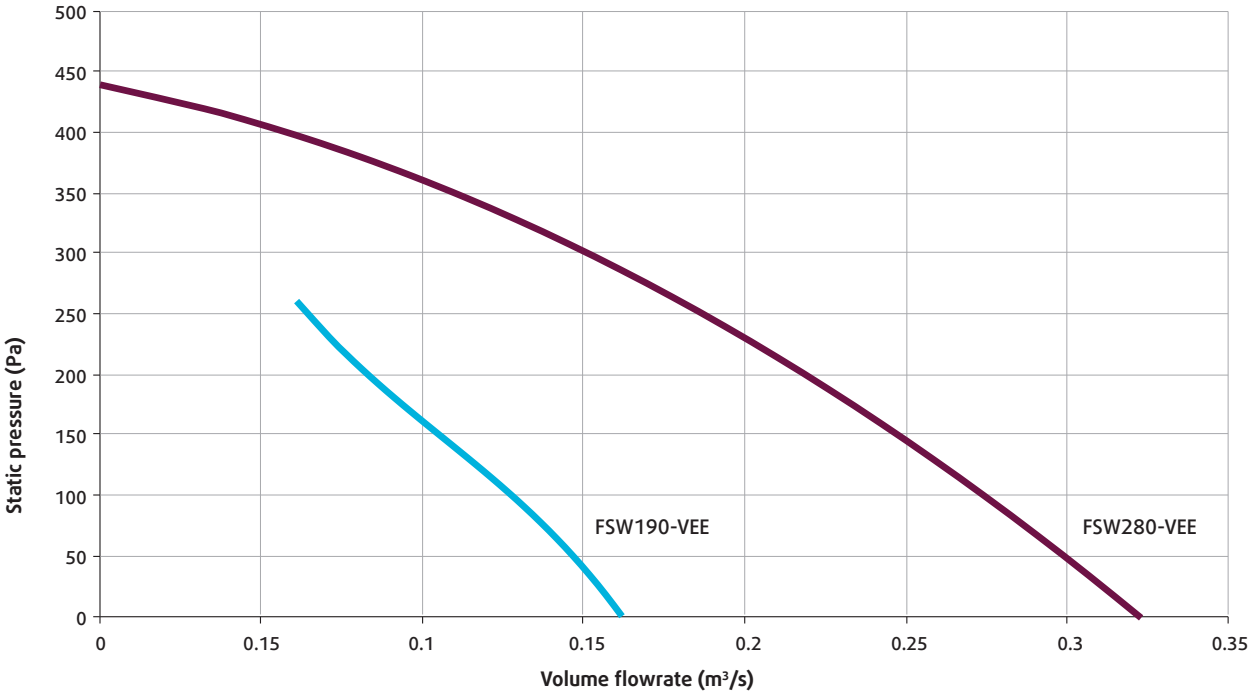
JP1 closed 1-2 = heating (reverse action)

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

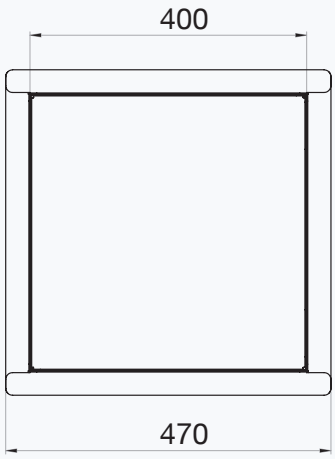
FSW190-VEE

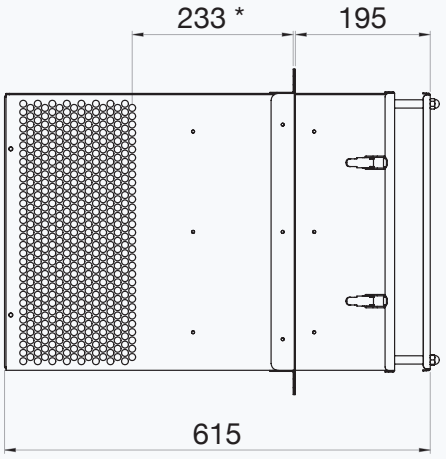
l/s	63	125	250	500	1000	2000	4000	8000	Lw	LwA	Lp dBA at 3m
111	72	72	71	69	60	64	58	53	78	71	50
109	71	73	70	69	60	64	58	53	78	71	50
91	68	70	69	62	56	60	54	50	75	67	46
63	67	67	67	55	50	52	47	43	72	62	41
39	66	64	61	51	42	43	37	36	69	56	35

FSW280-VEE

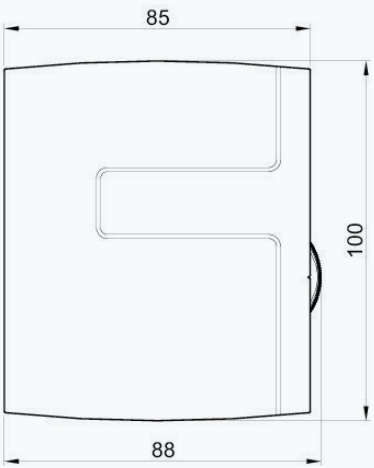
l/s	63	125	250	500	1000	2000	4000	8000	Lw	LwA	Lp dBA at 3m
309	81	85	86	81	77	75	66	58	91	84	63
218	79	83	85	79	74	72	61	53	89	82	61
162	71	76	76	70	65	62	50	39	81	73	52
110	66	67	64	59	53	48	30	10	71	61	41
50	64	58	55	48	34	10	28	10	66	50	30

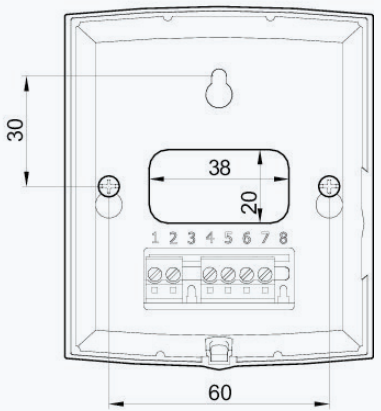
Technical drawings



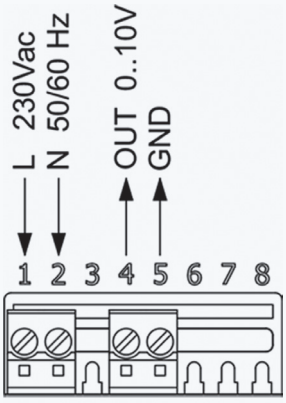


* To fit wall thickness max. 220mm





Wiring for ancillaries – EC-Basic



We are the safe choice.

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