

***Optivent - the first Variable Air Volume
device with real time air flow display***





The air flow can be controlled according to occupancy, level of carbon dioxide or desired room temperature.

Pressure independent Optivent is now also room independent!

A comfortable indoor air climate is created by dynamically adapting the ventilation rate to the actual demand. With the new Optivent VAV and modern control technology, a high level of indoor air quality and energy efficiency is achieved. The core of the Optivent VAV system is the flow regulator with real time measurement which dynamically varies the air flow according to the actual requirements in the room. A cost- and energy effective system solution is achieved from Optivent VAV exceptional accuracy and the possibility to control the ventilation rate according to temperature as well as room occupancy and carbon dioxide levels.

New Optivent simplifies the right selection

The new Optivent VAV design significantly simplifies the system design process. Now, it is possible to select the correct Optivent just based on the designed duct dimension.

Time efficient installation and calibration

On the new Optivent, V_{\min} and V_{\max} operating values are set on site after the installation. The adjustment is extremely easy, the commissioning engineer will see the air flow in real time on the display, a screwdriver is the only adjustment tool needed.

Due to the real time l/s display, exceptionally easy adjustability and the wider operating range, the flow variator does not need to be ordered according to the characteristics of the room anymore. The control devices can be adjusted in connection with installation according to room's V min and V max values. Adjustment takes place quickly and it is also exceptionally accurate.



EMOS



1-8 m/s

More accurate adjustability, wider operating range, more sizes

Good interior air can be adjusted more optimally than before. The adjustment equipment of Optivent measures the air flow over the flange. Measurement is independent of the pressure and very accurate also with slow duct speeds. The measuring unit does not get contaminated and that is why the measuring accuracy stays good from one year to another. The operating range of Optivent is now from 1 to 8 m/s. EMSS and EMSD types cover now all duct sizes from 100 to 630 mm.

EMSS



1-8 m/s

EMSD

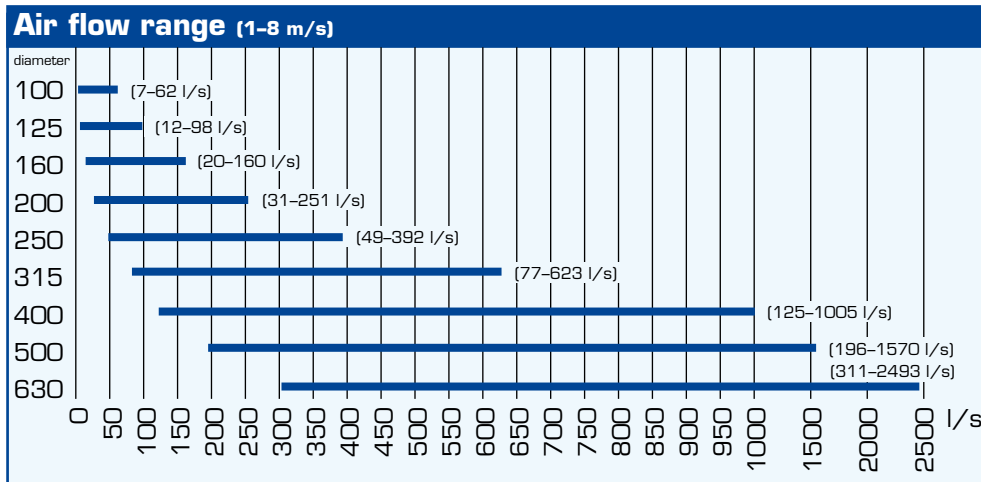
Even ordering can now be done irrespective of the room

Earlier the flow variator and the related control equipment was coded separately by room in question. Now everything needed is complete with one code, and installation at site can be done quickly and accurately. The only info required when ordering is the duct size of the room.



1-8 m/s

Extremely wide air flow range



Optivent Coding

EMS(S,D)-a-bbb-c-d

FLOW VARIATOR, ROUND

S = without insulation
D = with insulation

Actuator

1 = Compact FW actuator
2 = Alternative actuator, coding separately

Size

100, 125, 160, 200, 250, 315, 400, 500, 630

Material

1 = Corrosivity class C2 (environmental class M2),
galvanised sheet steel
2 = Corrosivity class C3 (environmental class M3),
(applies to parts in contact with the ventilation air)

Tightness

1 = [CEN 1]
2 = [CEN 4]

EMO(S,E)-a-bbb-c-d

FLOW VARIATOR

S = Supply air
E = Exhaust air

Actuator

1 = Compact FW actuator
2 = Alternative actuator, coding separately

Size

100, 125, 160, 200, 250, 315, 400, 500, 630

Material

1 = Corrosivity class C2 (environmental class M2),
galvanised sheet steel
2 = Corrosivity class C3 (environmental class M3),
(applies to parts in contact with the ventilation air)

Tightness

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