



DC VAV type DC-VAV

Patented control valves for demand-driven ventilation systems. Each valve is equipped with a **CO₂ or moisture sensor** for a measurement IN the air flow. It is also possible to integrate a **sensorless valve**.

Application

The control valves ensure that only polluted and/or moist air is discharged, where and when required and in the right amount. The control valves are used as standard with the **Duco Comfort Plus & Duco Tronic Plus systems**.

- All **'dry rooms'**, such as the living room/open kitchen or the bedrooms, can be fitted with a CO₂-controlled valve (**DC-VAV CO2 75** and **DC-VAV CO2 30**): This constantly monitors the indoor climate and ensures for the polluted air (at a ppm > 800 ppm) to be extracted in the relevant room and only there
- The **'wet rooms'**, such as the bathroom, can be equipped with a controlled valve (**DC-VAV RH 50**): As soon as, for example, a shower is carried out, the moisture sensor on the valve automatically ensures that the moist air is extracted in the bathroom, until the condition is normalized again
- In addition, there is also a possibility to provide a sensorless valve (**DC-VAV SC 25**) for efficient drainage in, for example, the toilet: This valve can also be adjusted to any flow
- For the toilet, an extremely sensitive CO₂ valve DC-VAV CO2 25 can optionally be provided, which already responds to a change of 5 ppm.

Specifications

Wireless communication (via RF protocol) or wired communication (via Duco protocol) with other control components in the Duco network

- Measuring area:
 - CO₂ and temperature
 - Relative humidity and temperature
- Measuring range: 400-2000 ppm or 0-100% RH
- Installation: in the DC-BOX FOCUS
- Placement:
 - **DC-VAV CO2 75** and **DC-VAV CO2 30**: Connected to the drain for the living room/open kitchen and bedroom(s)
 - **DC-VAV CO2 25**: Following the drain for the toilet
 - **DC-VAV RH 50**: Following the drain for the bathroom or laundry room
 - **DC-VAV SC 25**: Valve without integrated sensor that can fulfill several functions,

can be used in combination with DC-SEN room sensors, DC-CV control switch, DC-SC switch contact

- **The standard flow rate of the control valves can be changed manually during or after installation via the display menu or via the Duco Ventilation App**
- NOTE: For optimum system operation, all zones must be provided with a separate air duct network

Order example

DC-VAV CO2 75

Explanation:

DC = Duco brand

VAV = control valve

CO2 = measurement of CO₂ content

75 = flow rate 75 m³ / h (adjustable)

Technical data	
DC-VAV	
Width x height x depth	141 x 167 x 46,5 mm
Weight	220 g
Material	PP
Color	White
Sensors	Temperature (only CO2 control valve & RH control valve) CO ₂ (only CO2 control valve) Relative humidity (RH control valve only)
Communication	Wired
Power	12 VDC (powered by the DucoBox)
Peak power	2,04 W
Standby power	0,24 W
RH range	0-100 % RH
CO ₂ range	300 - 2000 ppm
CO ₂ accuracy	DC-VAV CO2 25: 5 ppm +/- 5% Other types: 40 ppm +/- 5%
Polarity protection	Graetz bridge

