

# e.VAV

CONNECTED & ENERGY SELF-SUFFICIENT VAV DAMPER

VAV system is getting smarter



Indoor air quality control.  
Energy self-sufficient damper.  
At the heart of the smart building  
(LoRaWAN communication)

Smart technology by **F2A**



## Applications

The e-VAV is a variable air volume damper to manage fresh air in commercial and school buildings. It controls indoor air quality according to a CO<sub>2</sub> sensor, a presence detector or a signal 0..10V.

## Operation

e-VAV generates its own energy to power an engine and requires no wiring. A turbine actuated by the airflow ventilation enables to operate the damper iris to set the airflow.

## Versions

**e·VAV** : variable air volume damper, energy self-sufficient and connected

**e·VAV QAI** : variable air volume damper with air quality sensor (CO<sub>2</sub> or VOC), energy self-sufficient and connected

**e·SENSE** : air quality sensor (CO<sub>2</sub> or VOC), energy self-sufficient and connected

## Technical features

0..10V control signal or a dry contact.

**LoRaWAN wireless communication protocol.**

**Energy Harvesting technology**, is based on piezoelectric and magnetostrictive materials.

Male connection with EPDM seal

### Air flow range

	Ø 125	Ø 160*	Ø 200*
Recommended max airflow (air velocity of 5 m/s)	<b>220 m<sup>3</sup>/h</b>	<b>360 m<sup>3</sup>/h</b>	<b>565 m<sup>3</sup>/h</b>
Min. airflow (operating mode)	<b>20 m<sup>3</sup>/h</b>	<b>40 m<sup>3</sup>/h</b>	<b>50 m<sup>3</sup>/h</b>
Min. airflow (starting mode)	<b>40 m<sup>3</sup>/h</b>	<b>50 m<sup>3</sup>/h</b>	<b>60 m<sup>3</sup>/h</b>

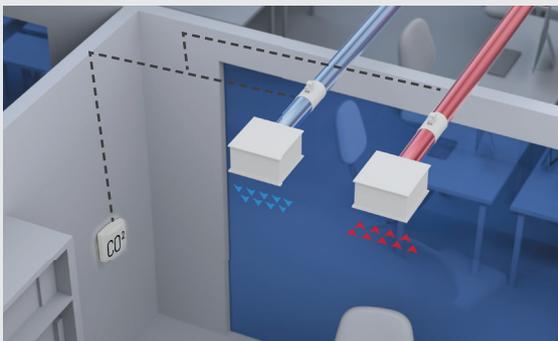
\* available end of 2022

### Dimensions

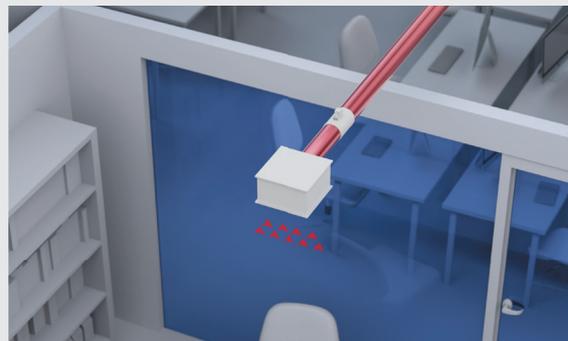
	Ø 125	Ø 160*	Ø 200*
Length	<b>105 mm</b>	<b>105 mm</b>	<b>105 mm</b>

\* available end of 2022

## Air quality management in premises



**e·VAV**



**e·VAV QAI**