





KLIMAOPREMA VAV SYSTEM

SmartVAV







SMARTVAV



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Application

Smart VAV box is designed for easy commisioning and integration with other systems. It consists of diffuser, plenum box and VAV damper. Klimaoprema's Smart VAV system features a wide variety of available diffuser types and sizes. In a combination with KOER Codis controller it becomes a powerful tool for modern, precise and energy efficient ventilation.

Features

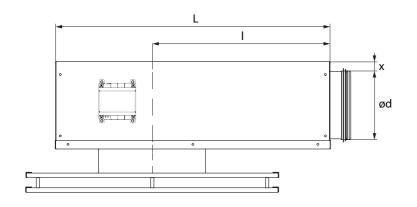
Every Smart VAV box is available with highly efficient acoustic foam insulation.

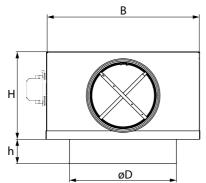
Available connection diameters: 125, 160, 200, 250mm

Compatible with diffuser plate types: KDP/ODP, DEV/DEV/DEU, DVF/DVS

Accurate and reliable measurement of airflow. Removable filter for extended life and simplified maintenance.

Dimensions





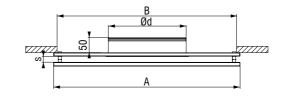
Model	D	d	L	1	В	Н	h	x
125-160	160	123	643	420	312	175	70	25
160-200	200	158	643	420	337	210	70	25
200-250	250	198	643	420	377	250	70	25
250-315	315	248	643	420	427	300	70	25

Diffusor plates

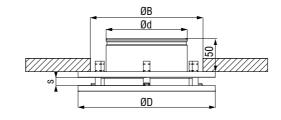
Smart VAV box is designed for standard use with KDP/ ODP diffusers. However, a wide range of Klimaoprema diffuser plates can be installed with additional compact plenum box.

- Ceiling diffuser for room heights from 2,3-4m
- Made out of steel sheet, standard RAL 9010
- Suitable for horizontal supply of cooled air
- Easy face plate removal
- Easy slot width adjustment (10, 20, 30mm)

Dimensions

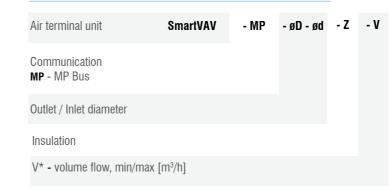


KDP	A [mm]	ød [mm]	øB [mm]
125	235	125	210
160	295	160	270
200	400	200	375
250	495	250	370
315	600	315	575



ODP	ØD	Ød	ØB
125	210	125	190
160	250	160	227
200	350	200	327
250	450	250	427
315	550	315	527

Ordering key



Ceiling diffuser	KDP/ODP	- A	-250
A - round perforationE - without perforationPP - square perforation			
PPA - square perforation around perimiter PE - full square perforation			
Size (eqvivalent to ød)			

Design changes reserved Design changes reserved



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Codis C35 VAV

Codis 35 VAV was designed to control Variable Air Volume dampers. Its hardware platform is the same as Codis 35 FC with the addition of a CO2 sensor. Like the FC, it enables higher energy efficiency thanks to a powerful weekly scheduler, "Occupied" operating mode and a digital input for presence sensor connection or passive electromechanical switch (open window) connection.





LCD with touchscreen

Touchscreen and intuitive graphical user interface enable quick and easy adjustment of operating functions and for additional installation of multiple enables easier system integration. device settings.



Temperature, humidity and CO2 measurement

Built-in sensors guarantee a cost Support for external sensing devices.



Comunication

effective solution by eliminating the need communication protocol over RS485



Inputs and outputs

Depending on the application, the Codis HVAC systems play a particularly 35 can have:

- 3 x 0 10V outputs
- 1 x 0 10V input (Co2)
- 1 x resistance input for PT1000
- 1 digital input for window contact
- 1 x relay 3A
- RS485 MSTP



Timers and working modes

significant role in obtaining energy efficiency in buildings. Thus, Codis' easy week timer setup and different working modes (Comfort, Precomfort, Economy, Frost protection) are primarily designed to optimize the building energy consumption.



Indoor air quality

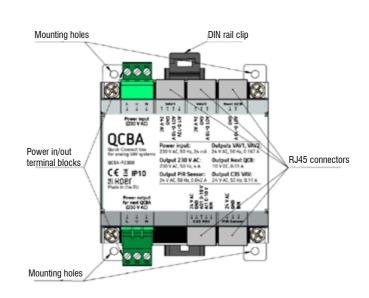
A common problem caused by poor indoor air quality control is underventilating or over-ventilating the user space which leads to poor indoor air quality or unnecessary increased operating costs. With a built-in VOC sensor and input for CO2 sensor, Codis 35 helps control ventilation more efficiently by demanding just the right amount of fresh air needed for optimal indoor conditions.

Ordering key

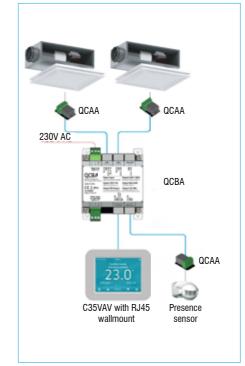
C35 - VAV - H -RS Damper type -B Built in sensor C - CO2 sensor **H** - Humidity sensor Protocol B - BACNet M - MODBUS* Network interface **RS** - RS485 W - Wi-Fi*

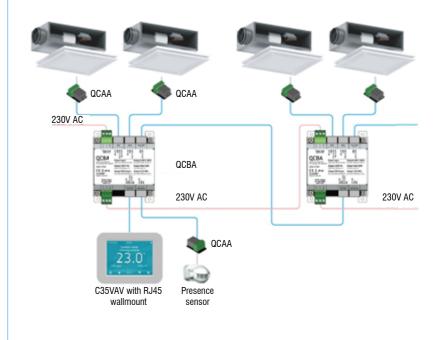
Quick Connect Box (QCB)

QCBA is an electronic device which dramatically reduces wiring and installation time of SmartVAV's and the Codis C35 room controller. It supplies 24V AC power for up to two SmartVAV actuators, one C35 room controller and one PIR sensor. it enables the installer to connect to VAV actuators, C35 and PIR sensor together using standard straight CAT5 Ethernet cables instead of screw type terminal blocks. C35 communicates with VAV actuators using the analog 0-10V signal. The A01 and Al1 markings on the device casing identify the connectors over which this analog communication is taking place.



Wiring example with Quick Connect Box (QCB)





QCBA wiring example

QCBA wiring example - cascading QCBAs in one zone

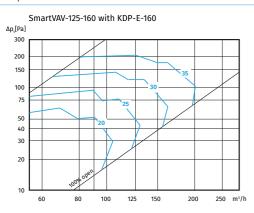


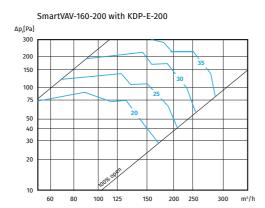
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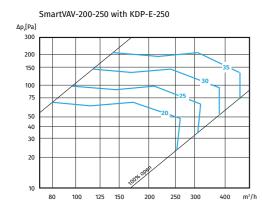


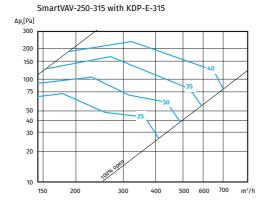
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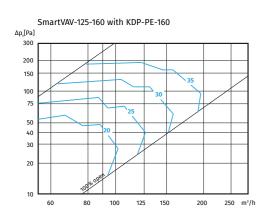
Pressure drop

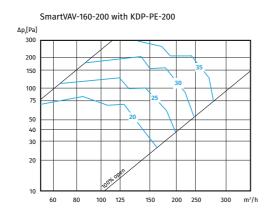


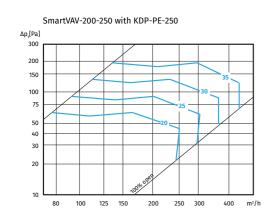


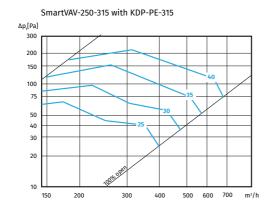












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