inVENTer

Better ventilation with heat recovery

The ventilation support for public spaces

www.inventer.eu/healthy-ambient-air

Healthy indoor air with a comfortable temperature

Aerosol control

Where there are many students in one room, aerosols contaminated with viruses can quickly increase the rate of infection. Decentralized ventilation devices ensure a continuous exchange of air. In connection with the boost ventilation, the aerosol concentration is reduced by fresh outside air and the removal of the used room air.

Quick installation

Easy to retrofit: inVENTer ventilation systems are inserted in pairs into the outer wall using a core drill. The ventilation intensity can be set intuitively when connected to the controller.

Heat recovery

Fresh air doesn‘t have to be cool. Because in the heart of our fans there is a ceramic core which first stores the heat from the indoor air and in a second step releases it back to the incoming outside air. Healthy air with a comfortable temperature.

Your ventilation support

iV-Office – strong and quiet

Maximum performance with minimum noise - that‘s ventilation with the iV-Office. The Xenion® EFP fan with increased speed ensures healthy air exchange – with up to 52 dB sound insulation thanks to the patented sound insulation concept with Inventin®.

Technical data

EXHAUST AIR VOLUME FLOW [m³/h]	20 – 90
AIR VOLUME FLOW HR [m³/h]	10 – 45
HEAT RECOVERY HR [%]	88
POWER CONSUMPTION [W]	1 – 5
SOUND EMISSION [dB(A)], 2 m	12 – 37
ENERGY EFFICIENCY CLASS	A+ / A

sMove controller

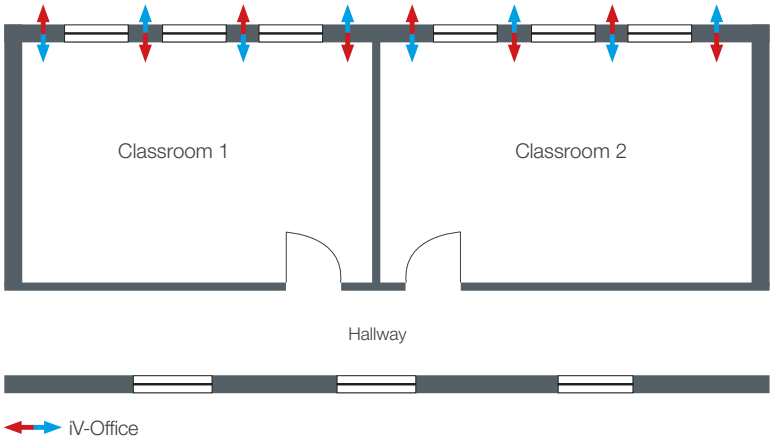
The sMove touch & slide controller controls up to 4 connected systems. The pause function is available for absolute rest moments and the boost function can be used for longer pauses to increase the air volume flow.

Optional sensors:
e. g. CO_2 sensor CS1

Ventilation in the classroom

The desire for fresh air in the classroom did not just arise in the wake of the pandemic. The air quality in schools has long been discussed. This is especially because of the **high CO_2 content in the room air**. It causes headaches, concentration problems and symptoms of fatigue over several lessons. The windows should be opened much more often...

In general, classrooms can be designed in accordance with DIN EN 15251:2012 and DIN EN 16798-3. An average **CO_2 concentration of 1,000 ppm** should be maintained. Depending on which classification is agreed, outside air volume flows between 20 and 36 m³/h per person are required. One way of achieving the required outside air volume flows is to combine **mechanical ventilation with heat recovery** and window ventilation.



Planning example

Requirement:
Between 20 and 36 m³/h per person
Possible standards:
DIN EN 15251: 2012
DIN EN 16798-3

Planning:
4 x iV-Office = 25 m³/h per device and person
= Outside air volume flow 100 m³/h
+ additional window ventilation

Our service

Do you have a specific project in new construction or renovation and would like a planning proposal?
You can find your inVENTer representative here!

Or send your request to
planung@inventer.de

- ✓ Basic ventilation 5 m³/h per person (20 people per class)
- ✓ Infection prevention by removing the aerosols
- ✓ Low virus concentration due to high proportion of fresh air
- ✓ Reduction of the window opening cycles

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