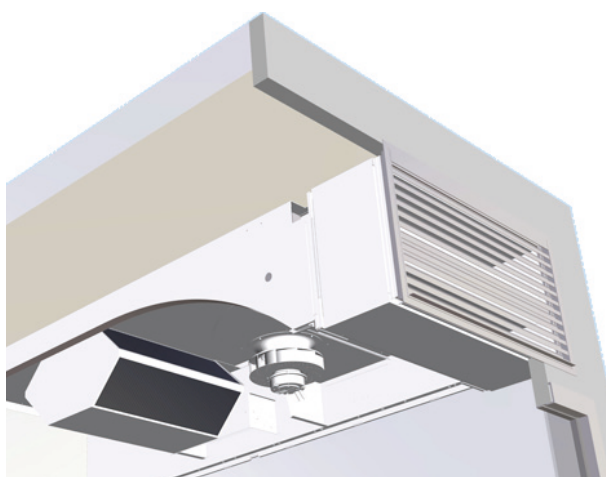


# Working concentrated

## Decentralized Air Conditioning with LTG Facade Ventilation Unit FVS Univent



Feelgood climate at schools,  
day-care centers and in offices.



- Fresh air by decentralized ventilation – comfortable, draught-free and low-noise
- Energy-saving through high-efficient heat recovery
- Individual, demand-controlled operation: via time control or CO<sub>2</sub> sensor (optional)
- Plug-and-play solution: fast and easy retrofit – supply air, exhaust air and heat recovery in one single unit
- New: now available with even more compact dimensions and for space-saving upright installation

## Air-water Systems · LTG Decentral

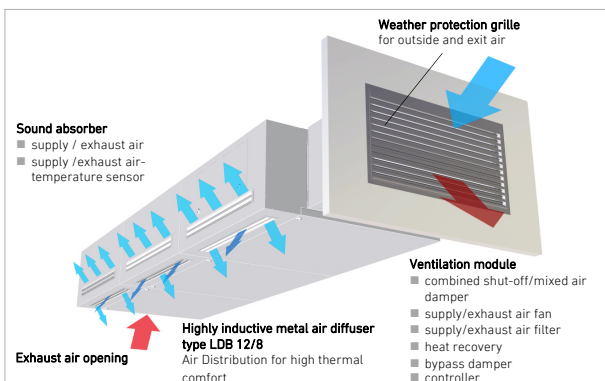
### Decentralized Ventilation Unit FVS Univent

The decentralized ventilation unit FVS Univent has been designed specifically to ventilate class and conference rooms. Its special features include high thermal comfort and low thermal heat requirement. 95 % of inhalable fine dusts and 99 % of pollen and coarse dusts are filtered. Improved indoor air quality may not only result in better school achievements but enhance the health conditions of teachers and students as well.

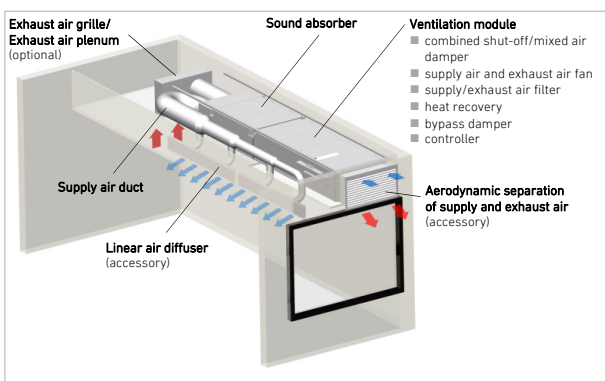
#### Unit



Ventilation module



Unit construction type FVS-S, visible installation



Unit construction type FVS-S, in a ceiling paneling

#### Features

- Short length (3 m) with easy connection to the facade.
- Low-noise, virtually unperceivable sound pressure levels, e.g. 27 dB(A) at 400 m<sup>3</sup>/h / 6 dB room absorption.
- Integrated compact silencer with enhanced low frequency attenuation.
- Lower primary energy requirement compared to traditional window ventilation due to
  - energy-efficient and usage-dependent operation with optimized fans and background control
  - low energy consumption (130 W at 680 m<sup>3</sup>/h), meets SFP 1.
- Automatic air supply with CO<sub>2</sub> control avoiding user errors.
- No mold formation.
- No condensate pipe required
- High-efficient heat recovery (up to 85 %) resulting in little need for heating the supplied air.
- Quick and easy installation, in case of retrofitting minimum disturbance of ongoing operations.
- High outside air flow rates (up to 720 m<sup>3</sup>/h max.)
- Outside air module with weather protection grille, airtight outside air damper and excellent heat insulation.
- All-in-one solution with air conveyance system for speedy reduction of temp. differences and indoor air velocities.
- High sanitation standards thanks to
  - simplified antifreeze protection without electric reheating
  - heavy-duty air filters (supply air: F7, exhaust air: M5)
  - humidity protection meeting VDI 6022 requirements



Weather protection grille

# Air-water Systems · LTG Decentral

## Decentralized Ventilation Unit FVS Univent

### Installation examples



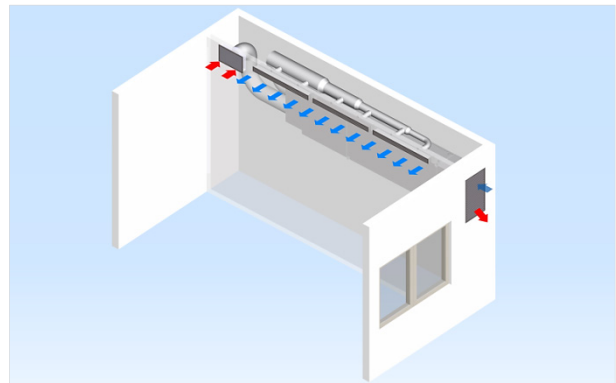
*Installation in a ceiling paneling*



*Installation in colour-matched ceiling panelling*



*Visible installation*



*Vertical installation in a partition panel*

### Conclusion

For schools, a need-controlled, automatic ventilation including heat recovery is required to ensure good indoor air quality thanks to low CO<sub>2</sub>, fine dust and germ concentrations while keeping primary energy consumption low. Thus, sustainable room air technology makes a positive contribution to health, output and environmental protection.

The freely suspended decentralized ventilation unit FVS Univent with integrated air diffusers makes the provision of ceiling panelings and additional inspection openings superfluous and may even be gradually retrofitted during holidays or on weekends.

