



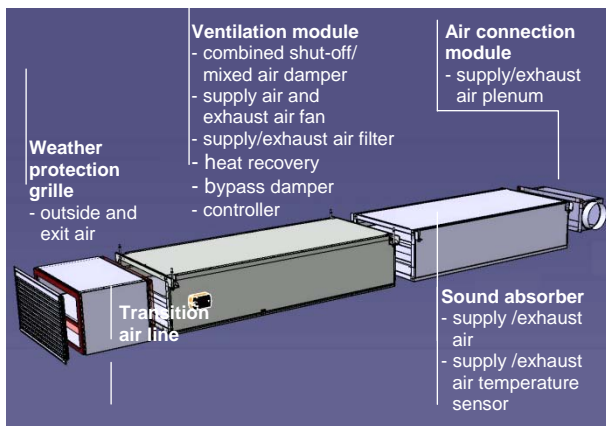
Air Conditioning Systems - Decentralized Facade Ventilation Unit Univent[®] Type FVS

The facade fan coil unit Univent[®] type FVS 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.

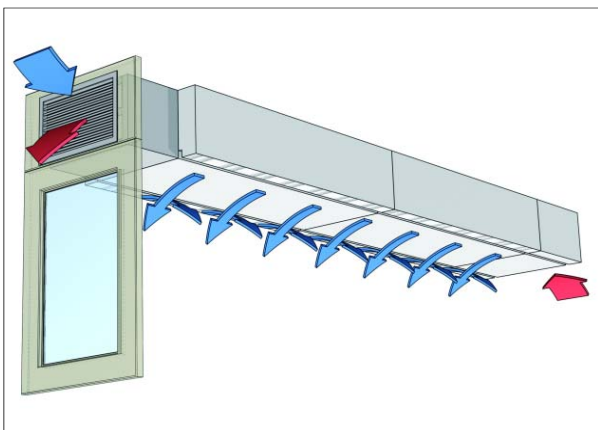
Unit



Ventilation module



Unit construction without ceiling paneling



Air conveyance

Features

- Compact design with easy connection to the facade.
- Low-noise, virtually unperceivable sound pressure levels, e.g. 34 dB(A) at 680 m³/h and 10 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 m³/h), meets SFP 1.
- Automatic air supply with CO₂ control avoiding user errors.
- No mold formation.
- 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 730 m³/h max.)
- Outside air module with weather protection grille, air-tight outside air damper and excellent heat insulation.
- All-in-one solution with air conveyance system for speedy reduction of temperature 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: F5)
 - humidity protection meeting VDI 6022 requirements



Weather protection grille



Air Conditioning Systems - Decentralized Facade Ventilation Unit Univent® Type FVS

Installation examples



Installation in a ceiling paneling



Visible installation

Conclusion

For schools, a need-controlled, automatic ventilation including heat recovery is required to ensure good indoor air quality thanks to low CO₂, 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 LTG Facade Ventilation Univent® Type FVS 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.

