

DECENTRALISED AIR-WATER UNITS FOR THE FAÇADE



Feldbergstraße, Frankfurt/Main, Germany

Whether new build or refurbishment, TROX has provided many prestigious projects with façade ventilation systems. This expertise is incorporated in the units for each particular façade.

Façade ventilation systems can be installed in ceilings near an external wall, under sills, in floors, but also in a window recess; they are suitable for rooms with an external wall and a depth of up to 7 m. Covers may be bespoke designs or selected from a multitude of available designs such that the units blend in perfectly with the façade.

Integrating decentralised ventilation systems into the building envelope has its advantages:

- No suspended ceilings means a reduction of both costs and building height.
- Flexible installation options, compact dimensions, and the fact that they operate independently from a central air supply make the decentralised ventilation units from TROX the ideal choice for refurbishment projects.
- Water is a more efficient means of transport for energy than is air.

EC fans and an integral heat exchanger for heat recovery prevent the warm room air from being extracted and exhausted unused, thereby increasing the efficiency of the entire system.

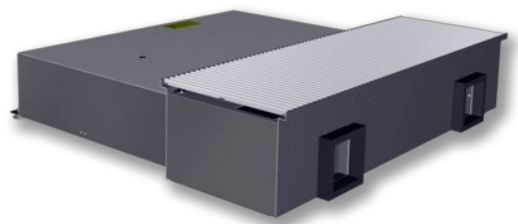
Intelligent system.

Air quality and temperature sensors intelligently signal measured values to the units. Supply air and extract air volume flow rates are controlled based on the VOC content, which ensures a constant high air quality. While the air-water systems may be

integrated with the building automation system, it is also possible to control each room individually.



Under sill unit FSL-B-ZAS
Secondary air unit for supply air and extract air, with heat exchanger and heat recovery, for installation under the sill
bis 47 l/s
bis 170 m³/h
B: 1.245 mm
H: 800 mm
T: 400 mm
Cooling capacity: up to 760 W
Heating capacity: up to 2,850 W



Under floor unit FSL-U-ZAB is fitted with a removable grille that facilitates maintenance and cleaning. No condensation is formed thanks to a new control strategy; heat recovery may be used all year round.



Vertical supply air and extract air unit FSL-V-ZAB with heat exchanger and heat recovery
bis 42 l/s
bis 150 m³/h
B: 396 mm
H: 1.800 mm
T: 319 mm