Atrea®

Leader in ventilation and heat recovery



Solutions for school ventilation

www.atrea.com



Centralised solution



Ventilation of (large)kitchens



Decentralised solution

CENTRAL VENTILATION SYSTEM



A centralised solution means **one shared unit for multiple classrooms**.

Each classroom is connected to the air distribution system via a **CONTROL BOX** (the type depends on the control requirements). Classrooms are ventilated according to current needs, and the control box regulates the air flow to each of them.

DUPLEX central ventilation units **are custom-made in several designs** (indoor and rooftop) to be **as compact and variable as possible**. They meet the requirements of almost all projects. We are pioneers in the field of central ventilation. We are constantly improving the system and adding new features.

DUPLEX units comply with EU ecodesign regulations and are optimised in accordance with it. Production also complies with VDI 6022 hygiene standards.

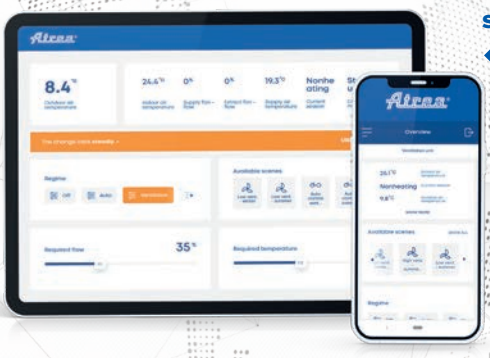




Control box

Internet connection in the standard
ATREA CONNECT SERVER

control via **smartphone, tablet or PC**



ADVANTAGES OF THE CENTRAL SYSTEM

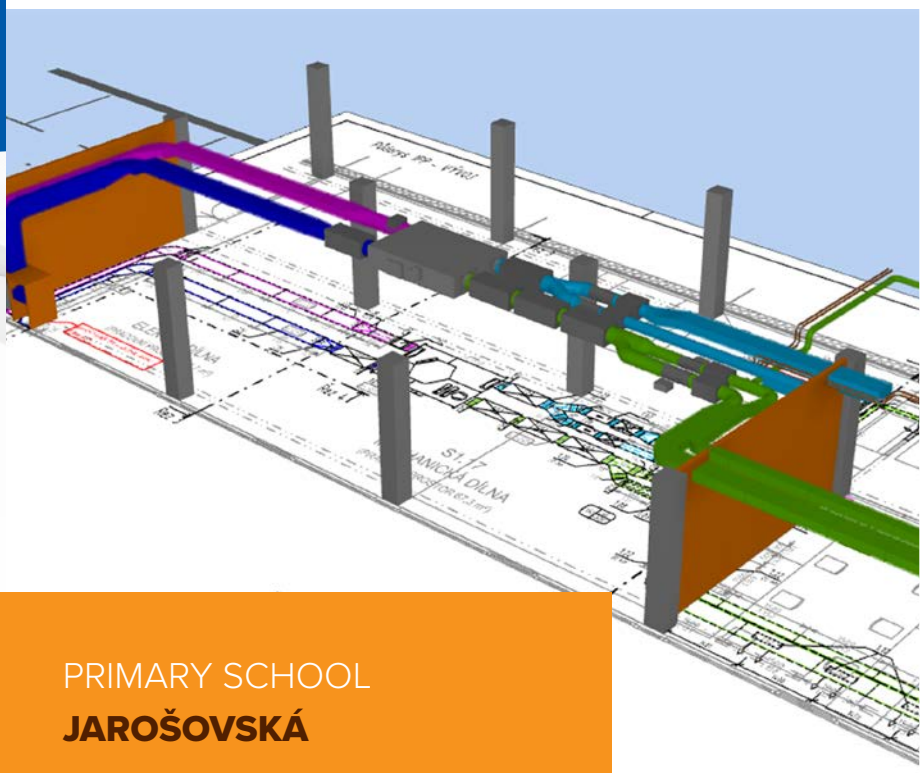
- **Lower investment costs for acquisition with a larger number of classes**
- **Minimised space requirements in the classroom**
- **Noise sources outside the classroom**
- **Lower operating costs (filter replacement)**



Central ventilation unit, for example from the **DUPLEX Flexi** series

CENTRAL VENTILATION SYSTEM

REFERENCES







PRIMARY SCHOOL

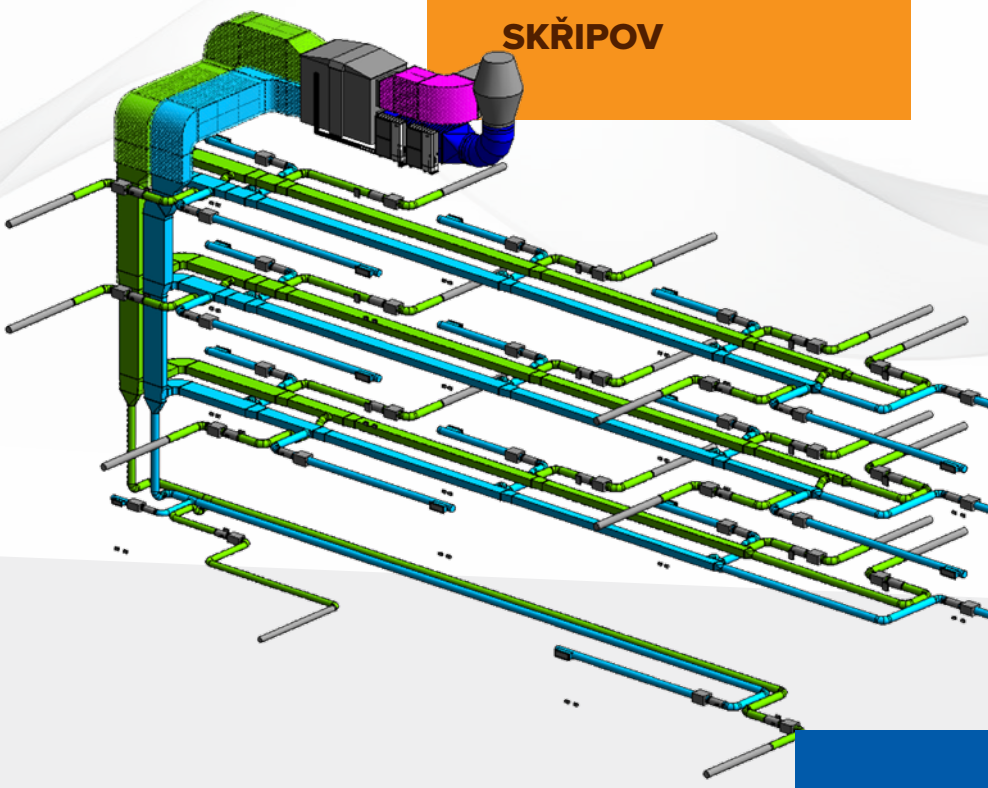
JAROŠOVSKÁ





PRIMARY SCHOOL

SKŘIPOV



DECENTRALISED VENTILATION SYSTEM



Each classroom is equipped with a ventilation unit with heat recovery. This is an elegant solution that does not require air ducts and has minimal construction requirements. **Installation of the system is very quick, simple and inexpensive**.

ADVANTAGES OF THE UNITS

- **New Horizontal (under-ceiling)**
- **Compact, free-standing**
- **High operating efficiency**
- **Very low noise**
- **Integrated aMotion control**
- **Complete delivery including installation kits**
- **Several design options**
- **No condensate drainage required**
- **Awarded by experts**





Decentralised units for schools

DUPLEX 850 Inter and Inter-H

The DUPLEX Inter series of interior ventilation units are designed for equal pressure ventilation of classrooms, school playrooms and after-school clubs, as well as all other spaces that require minimal noise levels. The units can also be used in offices, staff rooms and meeting rooms.

The units are characterised by high heat recovery efficiency, very low noise levels, low installed power consumption and minimal installatio and project preparation.

Certificates

VDI 6022 READY Atrea

ErP 2018 Atrea

We have won the **GOLD MEDAL** for 2018



ADVANTAGES OF A DECENTRALISED SYSTEM

Option to connect only specific classrooms
(solutions for individual classrooms independently of the entire school)

With fewer classes
(separate connection), a decentralised system is more economical

Individual access to the system
(e.g. air filtration option)

DECENTRALISED VENTILATION SYSTEM **REFERENCES**



PRIMARY SCHOOL
HUNTÍŘOV











MASARYK PRIMARY SCHOOL AND NURSERY SCHOOL
NEZAMYSLICE



VENTILATION OF GYMNASIUMS AND SPORTS FACILITIES

Gyms/sports facilities are connected to the central DUPLEX heat recovery unit.

The air flow is controlled by flow regulators directly controlled by an air quality sensor from the gym (IR CO_2sensor). There may also be another simple controller in the cabinet/backroom to increase the air flow according to the teacher/ trainer's suggestion.



SYSTEM ADVANTAGES

Variability

Compactness of DUPLEX units

Coverage of the entire space and associated areas



DUPLEX units comply with EU eco-design regulations and VDI 6022 hygiene standards.



VENTILATION OF SCHOOL KITCHENS AND CANTEENS

ATREA full-area ventilation and air conditioning ceilings are the ideal solution for school kitchens. This modern and efficient system has been successfully supplied for over 30 years and has been proven in more than 500 large projects not only the Czech Republic and Slovakia, but also in many other countries around the world. Ventilation and air conditioning ceilings ensure:

A perfect microclimate

Protection of building structures against moisture

Lighting of the entire space that meets the most stringent standards

Unrivalled separator efficiency (for 5 µm = 100%)

Draught-free fresh air supply







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