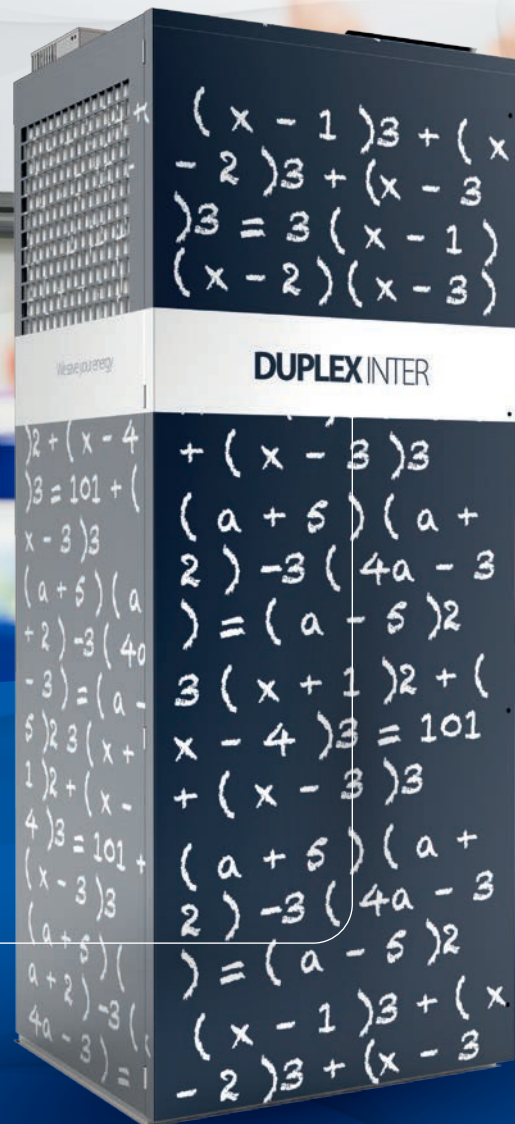




Atrea®

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

Certificates



ADVANTAGES OF THE CENTRAL SYSTEM



Lower investment costs for acquisition with a larger number of classes

Minimised space requirements in the classroom

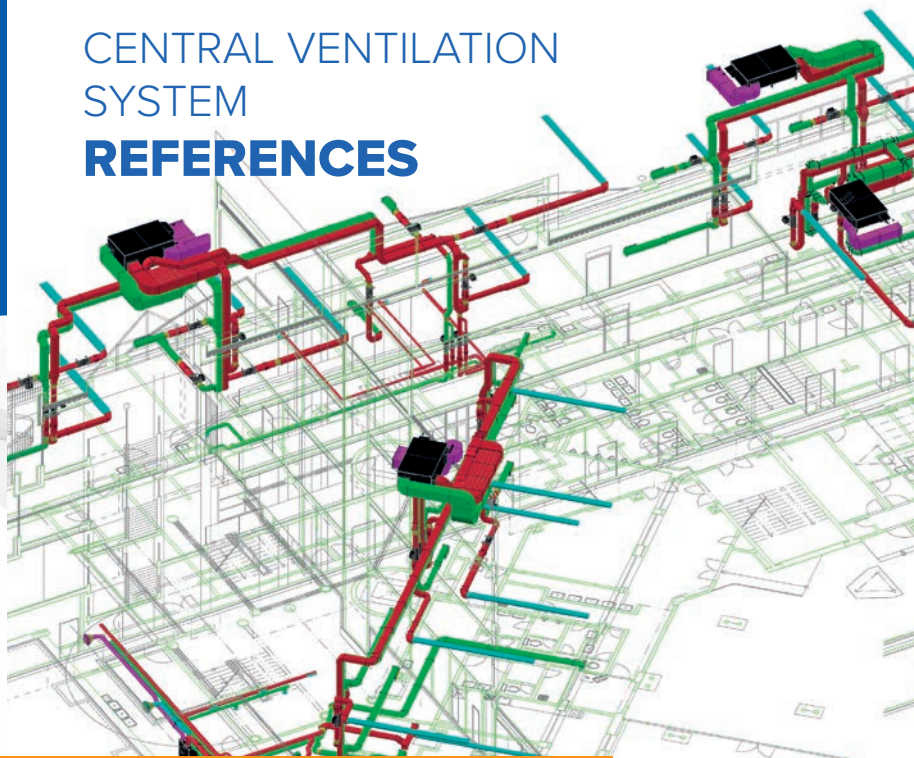
Noise sources outside the classroom

Lower operating costs (filter replacement)

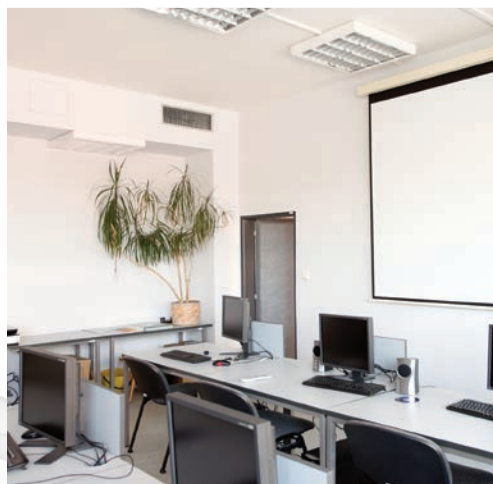
Central ventilation unit, for example from the **DUPLEX Flexi** series



CENTRAL VENTILATION SYSTEM REFERENCES



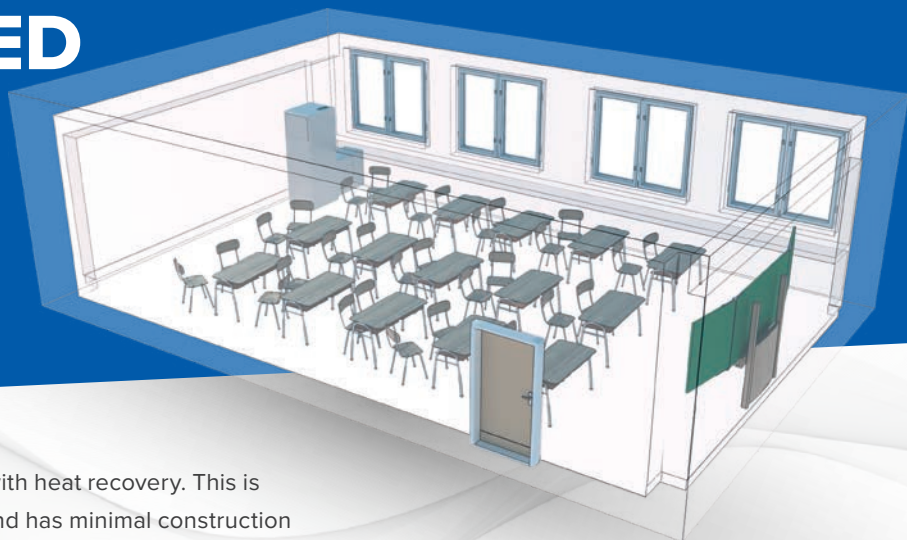
PRIMARY SCHOOL MIKOLÁŠE ALŠE SUCHDOL



ČVUT PRAHA FACULTY OF CIVIL ENGINEERING

DECENTRALISED VENTILATION SYSTEM

Atrea®



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

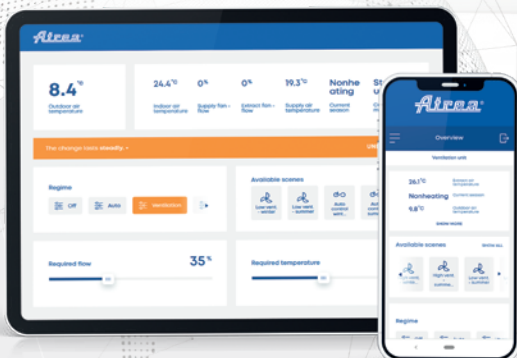
DUPLEX 850 Inter and Inter-H

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 installation and project preparation.

Internet connection in the standard
ATREA CONNECT SERVER

We have won the
GOLD MEDAL for 2018



ovládání přes
smartphone, tablet, PC

ADVANTAGES OF A DECENTRALISED SYSTEM



Option to connect only specific classrooms

(solutions for individual classrooms independently of the entire school)

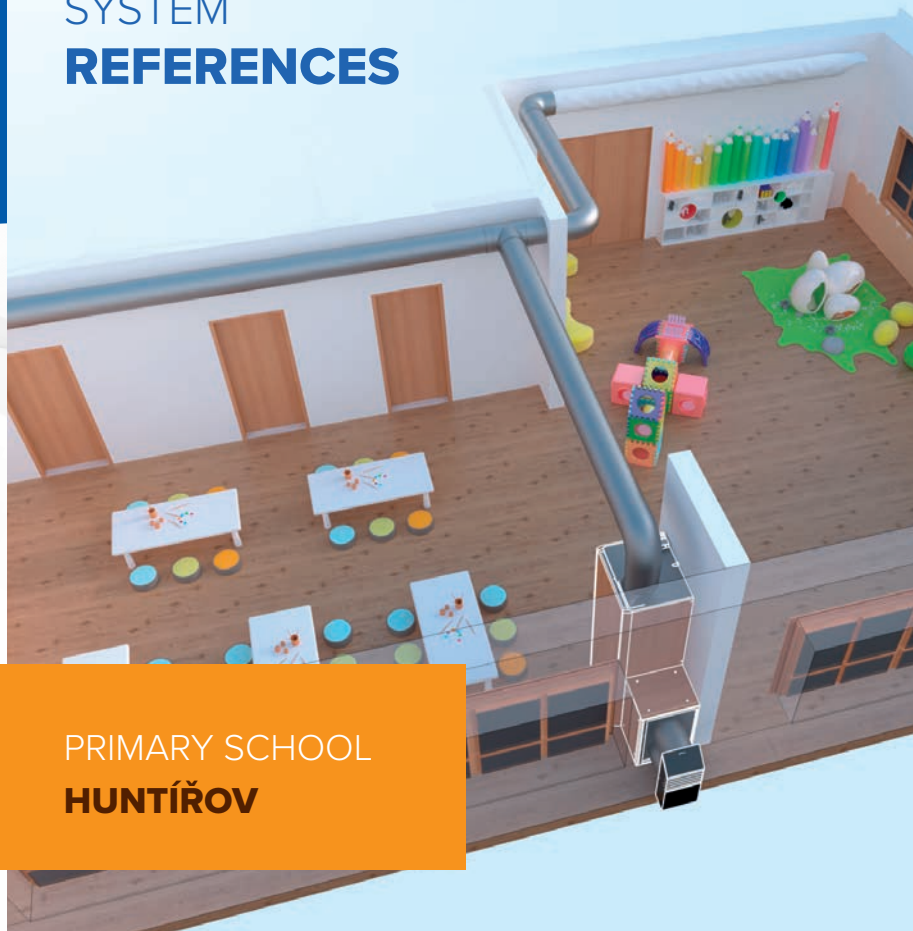
With fewer classes

(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 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



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 CO₂ sensor). There may also be another simple controller in the cabinet/backroom to increase the air flow according to the teacher/trainer's suggestion.

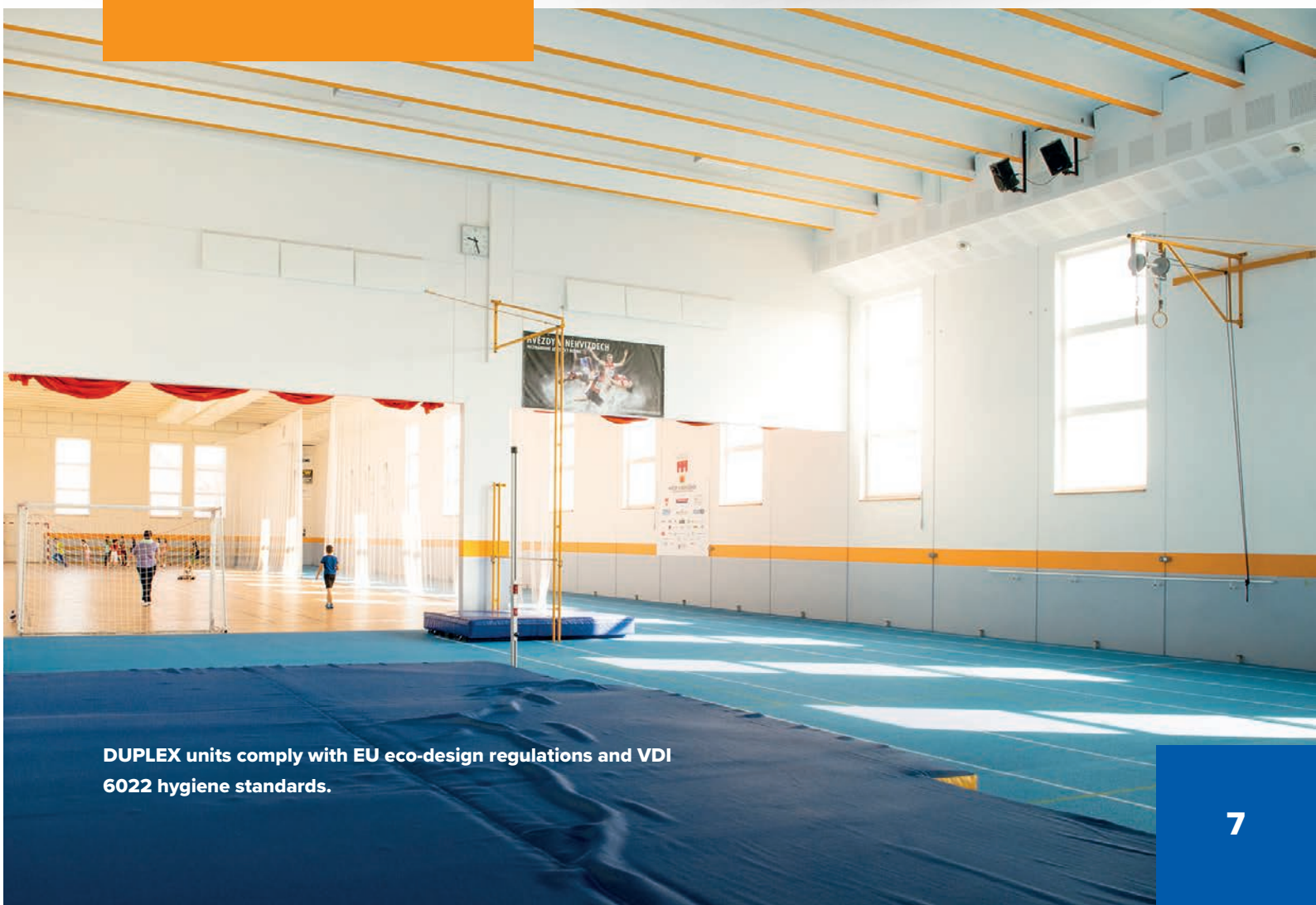
SYSTEM ADVANTAGES



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.



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