

Atreya[®] *Leader in ventilation and heat recovery*



DUPLEX Inter

A new generation of school ventilation

More information www.atrea.com



ATREA'S PRODUCT RANGE

- **Commercial ventilation**
– air handling units from 500–15.100 m³/h
- **School ventilation**
- **Residential ventilation**
– air handling units from 170–580 m³/h
- **Kitchen ventilation**
– whole area ventilation ceilings and kitchen hoods
- **SMART Box system**
- **Passive houses by ATREA**

ATREA HISTORY

ATREA was started as a private company in 1990 in the Czech Republic. Very shortly it began to focus on the production of ventilation units with waste heat recovery. The company's founder has authored many authorship certificates, patents and industrial designs in this field.

ATREA's high quality products started to make their mark also in the demanding markets of Western Europe. The economic and geographic proximity led ATREA to focus primarily on the German market where it has established itself really well as a result of a good partnership and top-quality products, with the Netherlands, Switzerland, UK, Italy, Slovenia and other countries to follow.

DUPLEX INTER



WHY VENTILATION

- Very low noise level **-32 dB**
- One hour installation
- Safe for children
- Healthy environment

FOR DESIGNERS:

- No ducts needed for ventilation
- Extremely easy to install, no professional installation needed
- High efficiency of heat recovery up to 93 %
- 100% by-pass
- Automatic anti-freeze protection
- Possibility to add heater for supply air
- Complies with Ecodesign 2018 and VDI 6022



ADVANTAGES DUPLEX Inter

Very low noise level

DUPLEX Inter belongs among the most quiet units with the performance as low as 32 dB, thanks to its integrated silencers.

One hour installation

Another unique feature of the DUPLEX Inter is fast and easy installation, which does not require any project design.

Safe for children

Our product was created with the respect towards children's safety, with all components hidden and covered properly, so there is no risk that neither children could get hurt **nor the product can be damaged.**

Healthy environment

Fresh and clean air is one of the main keys to productive performance and focusing. This could be easily achieved, because the DUPLEX Inter airflow can reach up to 10 m to the open space.



DESIGN OPTIONS

Automatic control system

The unit has integrated CO₂ sensors, which ensure its automatic and quiet operation during any school lesson.

No ducts needed

The stand alone design provides a big advantage in terms of ductless installation, so there is no need to have any ducting in the building.

Unique lacquered design

DUPLEX Inter can easily merge with the rest of the furniture of the given space, because of its wide variety of casings – going from a simple wooden look or colorful and thematic looks.



LAMINATE PANELLING

The optional component is divided into two parts – separate panelling for the unit and for the duct. Each is made of laminated panels 18 mm thick, configured for mounting on the unit and the duct cover. All fixtures and fitting for installation are included, complete with edge cover strips for the unit. There are three basic versions of the decor finish to choose from.

Natural oak

Bardolino beech

Natural beech

**White
metal sheet**
RAL 9010

**Silver
metal sheet**
RAL 9006

RD5 Control system

A new generation of school ventilation

A comfort system with integrated support for online monitoring and control via the Internet. Also with option of connecting to the higher-ranking systems of centralized building management. A wide range of sensors (temperature, humidity, air quality, etc.) can be included in the system to enable automatic control for economical operation. The RD5 system is suitable for standard and complex applications (such as the ventilation of restaurants and offices).



CP Touch controller

- Touchscreen and fully colourful controller
- On the wall design
- Similar design with Atrea web interface
- Built-in temperature sensor for free – ambient temperature control
- Password protected service access for enhanced safety
- 50 m distance reach
- Automatic screensaver
- Up to 4 controllers per one unit

Various functions:

- Constant flow – An option to fit sensors for constant flow control.
- Constant pressure – An optional accessory for constant pressure control.
- CO2 sensors, relative humidity sensors and air quality sensors – An option to set the intensity of ventilation automatically based on those parameters.
- **Modbus TCP** – Communication with a higher-ranking system for BMS.
- User preferences – including setting weekly programmes for ventilation, heating and cooling modes.
- Immediate manual override settings for more convenience to the user as well as weekly programme control.
- External inputs function – ventilation switches as required.
- Combined heating and preheating (electrical or water based)
- Zoning – the ability to split the building into zones and define their operation.
- **BACnet / KNX** – optional converter enables connection to the superior system via BACnet or KNX protocol.

Atrea®

We save your energy



www.atrea.com

ATREA s.r.o.

Československé armády 32
466 05 Jablonec nad Nisou, Czech Republic
email: export@atrea.com