

AIR TECHNOLOGY

AL-KO

QUALITY FOR LIFE



DECENTRALIZED COMPACT VENTILATION UNIT

AL-KO AIRCABINET®

Healthy air in offices, medical practices, restaurants and schools



alko-airtechnology.com

Sustainable technology for a healthy indoor climate

For more than 50 years AL-KO Air Technology has been providing solutions for clean air wherever people come together. As a leading manufacturer of ventilation and air handling systems, we provide custom-tailored solutions in time-proven AL-KO quality for the complex requirements of various applications.

Your challenge

A healthy indoor climate is more important than ever. Whether for your employees, patients, guests, or children in schools or kindergartens. This can be achieved with the AL-KO AIRCABINET compact ventilation unit.

Our solution

The AL-KO AIRCABINET ensures healthy air. It constantly supplies the room with fresh, temperature-controlled outdoor air while effectively eliminating pollen, spores and aerosols from the indoor air. The unit is particularly energy efficient since it recovers heat from the exhaust air. The decentralized ventilation unit can also be easily retrofitted in the room.



Your benefits



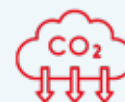
Fresh air for employees, patients, guests and pupils



Eliminates the need for window ventilation (no heat loss, no hassle)



Filters pollen, spores and aerosols from the air



Reduces the CO₂ content of the indoor air to allowing better concentration

AL-KO AIRCABINET is optimized for use in:



Offices



Medical practices



Restaurants



Schools

One unit for your needs

AL-KO AIRCABINET is suitable for an air volume range from 200 to 1,200 m³/h. This allows effective ventilation of a classroom or office. The following air volumes are recommended for hygienically safe air quality*:

*) acc. to German Federal Environment Agency/DIN 1946 (2)

- Offices, conference rooms and medical practices: approx. 50 m³/h per person
- Restaurants: approx. 40 m³/h per person
- Classrooms: approx. 30 m³/h per person

For a classroom with 31 pupils and one teacher, this means:

$$\begin{array}{c}
 \text{32} \\
 \text{persons}
 \end{array}
 \times
 \begin{array}{c}
 \text{30 m}^3/\text{h} \\
 \text{per person}
 \end{array}
 =
 \begin{array}{c}
 \text{960 m}^3/\text{h}
 \end{array}$$



Quiet operation below 40 dB(A)



Maximum energy efficiency thanks to fans with EC technology



Designed for uncomplicated retrofitting



Heat recovery with an efficiency of up to 85% helps to reduce heating costs

Time-proven AL-KO quality

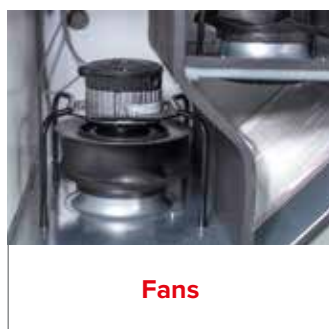
Improving people's quality of life is our promise. Therefore, we always keep the individual customer requirements in mind. Our competent employees implement the best possible solution, day after day. Time-proven AL-KO quality is based on decades of experience in air and climate technology technology, as well as high-tech components and materials.

High-quality components

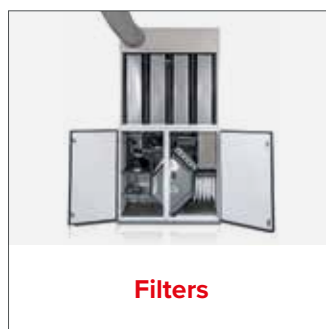
An extensive portfolio of high-quality components from different manufacturers is available for the AL-KO AIRCABINET. All components and functional units are tested by AL-KO Air Technology.



Counterflow or plate heat exchangers for efficiency of up to 85%



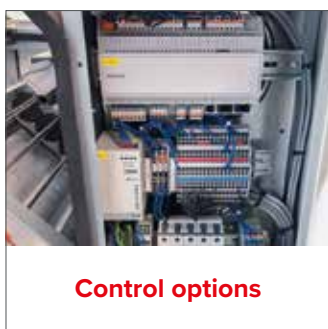
Efficient fan technology with speed-controlled EC fans



Supply air and exhaust air filters, easily replaceable, with electronic pollution monitoring



Available as a hot water or three-stage controlled electric heater



Demand-based control according to CO₂ content in the room, time program and/or presence detector



Window and/or wall air vent for outdoor air and exhaust air



Two integrated butterfly valves with an actuator for outdoor air and exhaust air

Optional components, tested for reliability

- Hot water heat exchanger
- Cold water heat exchanger
- Condensate pump
- Combined air vent for window installation
- Air hose connection for outdoor air and exhaust air
- Replacement filters
- Textile air hose or optionally with fresh air vents

Optionally with fresh air vents

The AL-KO AIRCABINET is also available with either a textile air hose or with fresh air vents. These vents eliminate the need to install a hose, and also ensure draught-free fresh air distribution.



Clean air for the Scheuring elementary school

During the Covid pandemic, an elementary school in the Upper Bavarian city of Landsberg am Lech decided to use the AL-KO AIRCABINET. It reduces both the aerosol load in the air and the CO₂ content. Quietly, and without the hassles of window ventilation.

AL-KO Service: Tailored to your individual needs

We are motivated by your success, and quality is our claim. With the support of our dedicated AL-KO team, you are sure to be in good hands. From the very beginning, we offer you a customized support.

Individual control technology

The mobile, removable control element can be configured for your individual needs. The unit is equipped with interfaces for networking with building management systems and fire alarm control panels.



User-friendly maintenance

Thanks to the easy accessibility and simple removal of the sound absorbing elements a quick maintenance and filter exchange is ensured. With AL-KO REMOTE CONTROL a secured remote access is achieved via connection to a network or wireless modem. With the Try & Test package, this function is free of charge for the first two years.

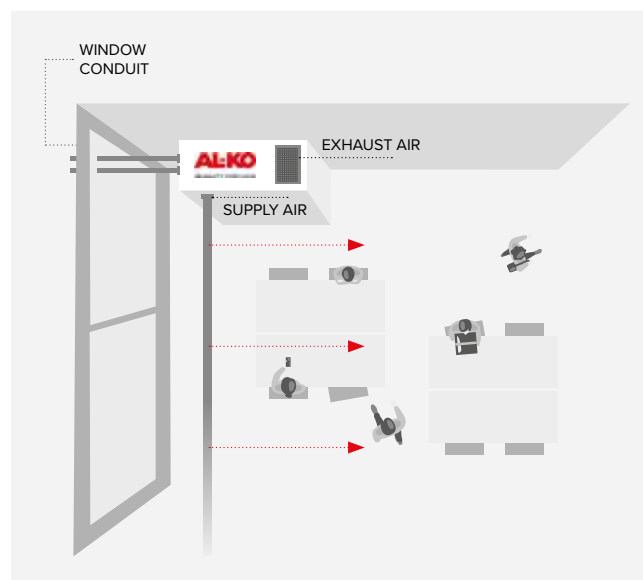
Excellent all-round service from the very start

AI-KO's competent and dedicated service staff provide support throughout the entire life cycle of your unit. We offer digital planning support, customized service packages, replacement parts in OEM quality, and retrofitting.



A smart plug & play solution

The unit is delivered as a plug & play system consisting of three easy-to-install modules. Installation of the AL-KO AIRCABINET in the room to be ventilated takes only a few hours. Fresh air is drawn in and stale air is discharged through an air diffuser mounted in a window or exterior wall. Draught-free distribution of the fresh air, which is additionally filtered, is achieved via a textile air hose or fresh air vents.



Technical data

Product attributes			
Dimensions (W/D/H)	1,306 x 730 x 2,477 mm		
Weight	406 kg		
	Basic unit	Sound absorber module	Air distribution module
Height of single modules	1,173 mm	983 mm	321 mm
Weight of single modules	213 kg	158 kg	35 kg

Product-specific data			
Air volume in m ³ /h	800	1,000	1,200
Electric power consumption without/with additional electric heating in kW	0.2 / 1.3	0.2 / 1.3	0.3 / 1.6
Heat recovery efficiency Air outlet at -12 °C outdoor air and 22 °C exhaust air without/with additional electric heating	84 % 16,5 °C / 20.0 °C	83% 16,0 °C / 20.0 °C	82% 15,7 °C / 20.0 °C
Sound power level in dB[A]	37	42	47
Sound pressure at a distance of 2 m dB[A]	34	40	43

* measured in a 9 x 10 x 2.75 m² room with medium room absorption

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QUALITY FOR LIFE

AL-KO AIRTECH

AL-KO Airtech specializes in the manufacturing and distribution of ventilation and extraction systems. Airtech comprises **AL-KO Air Technology** and **AL-KO Extraction Technology**. These divisions develop and produce customized ventilation and air handling systems, as well as a broad spectrum of industrial extraction systems for diverse areas of application. What started out as a village blacksmith's shop in 1931 is now an international brand. Then and now, our brand promise "QUALITY FOR LIFE" stands for unique product and service quality.

AL-KO Air Technology

- 50 years of experience in ventilation and air handling technology
- More than 10,000 ventilation and air handling units per year
- All systems in time-proven AL-KO quality
- Tailor-made for customer-specific requirements
- All expertise from a single source
 - Planning and consultation
 - Digital tools
 - Air and climate technology
 - Plant control
 - Comprehensive service packages

AL-KO THERM GMBH

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