

Technical and commercial documentation

CXc300

Ultra-flat air handling unit
for suspended ceilings



 **aldes**

**At the heart
of the building**

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Why choose the CXc300?

THE MOST PRACTICAL AND ECONOMICAL SUSPENDED CEILING UNIT ON THE MARKET



Size and version segmentation for a bespoke solution

- The CXc300 range has been designed to precisely match the specific needs of each project. The CXc300 is available in 5 sizes, enabling:
 - A precise response to project needs, without oversizing the machine,
 - Optimised performance and energy costs.
- The CXc300 is available with or without a coil:
 - Simple unit without coil,
 - Unit with integrated electrical post-heating coil: a ready-to-use option, offering rapid temperature rise for immediate comfort,
 - Unit with hot water post-heating coil for installation in ductwork (additional box in the same design as the unit),
- This flexibility guarantees a bespoke solution for each project while avoiding oversizing or purchasing unnecessary features.

An ultra-compact unit for easy integration

- With unit heights ranging from 342 mm to 411 mm (including 11 mm of quarter-turn screws for panel attachment) depending on the model. The CXc300 is particularly well suited to refurbishment projects where the space available for installing technical equipment is often limited.
- Thanks to its ultra-flat design, the CXc300 fits easily under ceilings and within suspended ceilings in older buildings for maximum discretion.

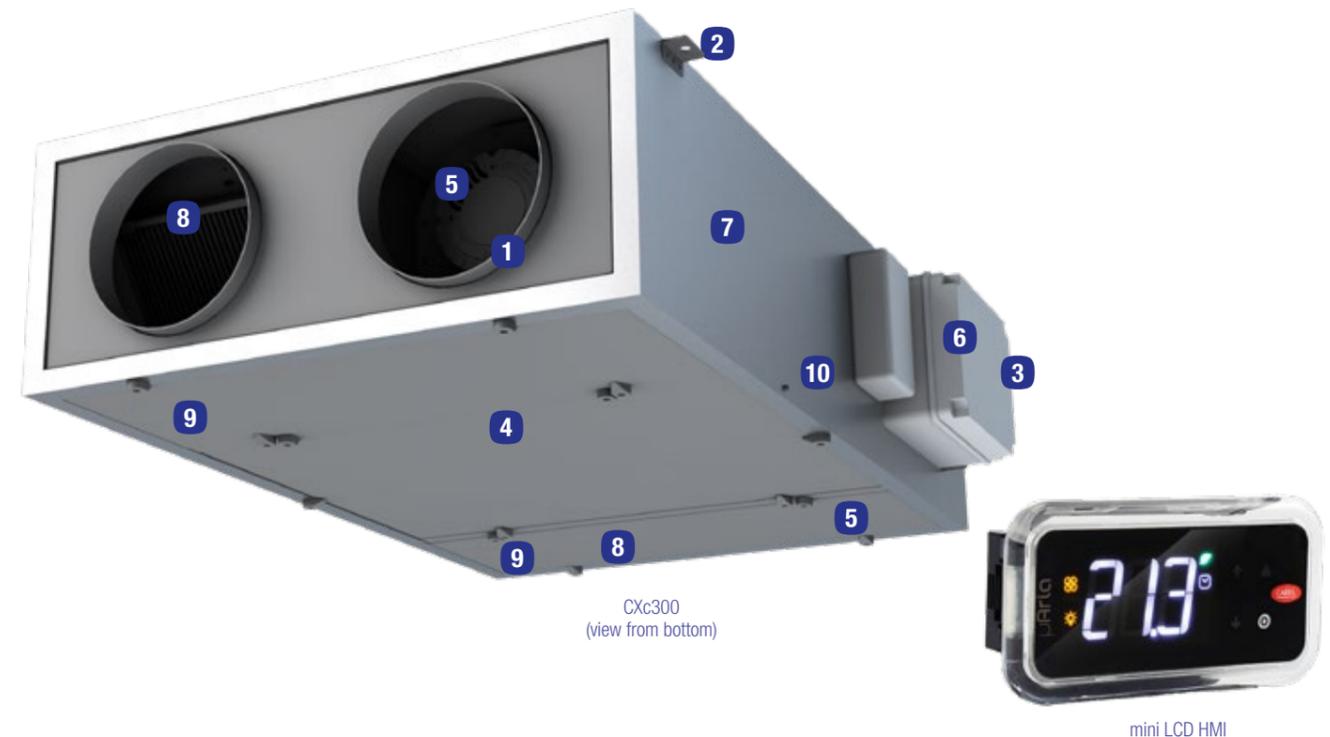
Smart and exclusive control

- Aldes innovates by integrating intuitive smartphone control as standard on all versions of the CXc300. This exclusive feature transforms the user experience by offering ultra-simple monitoring and control of the unit.
- Free app (Android and iOS): accessible to all users, at no additional cost.
- Simplified connection: pairing via Bluetooth, NFC or Wi-Fi.
- Intuitive control panel: displays the main controls and performance indicators (airflow settings, energy consumption, etc.).
- Ease of control: allows you to adjust the operating and control parameters for optimum comfort and maximum energy efficiency.



Simplified maintenance with easy access to internal components

- Easy access to filters from the underside of the unit.



- 1 Circular spigots on all sizes
- 2 Factory-fitted attachment brackets for solid and suspended ceilings
- 3 Electrical box with proximity switch (single power supply point for main unit and post-heating coil)
- 4 Eurovent AAHE-certified counterflow heat exchanger with ON-OFF 70% bypass.
- 5 2 x PLUG FAN EC fans to suit height
- 6 BMS Modbus communicating controller with mini LCD HMI + smartphone connection as standard
- 7 Ultra-flat housing (height 342 to 411 mm) with 27 mm double skin, rock wool insulation (30 mm compressed)
- 8 ePM1 55% (F7) filter on air supply, ePM10 65% (M6) filter on return
- 9 Removable bottom panels (quarter-turn) for access to filters and fans
- 10 Integrated condensate drip tray with side outlet

Air connection: the CXc300 is available with a single straight air connection (as seen from below). The electrical box is on the right-hand side, as is the air supply fan.

OPERATING PRINCIPLE

- The CXc300 brings fresh, filtered air into the building and recovers heat from the extracted air using its high efficiency counterflow exchanger.
- The incoming air can be heated and/or cooled with a full range of internal and external coils. It fits into the suspended ceiling.

FEATURES AND COMPATIBILITY

5 sizes unit only, 5 sizes with electrical post heating coils, 5 sizes with hot water coils.

The CXc300 is systematically supplied with:

- a mini wired remote control with LCD screen for end-users.

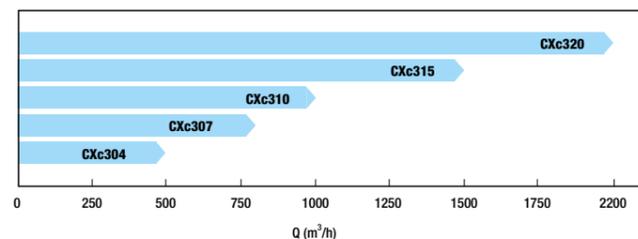
It can be installed directly in the ventilated room, mounted on the wall. It can be used to modify the main operating setpoints:

- temperature setpoint and display,
- fan airflow setpoint and display,
- display of alarms activated.

- compatibility with a dedicated smartphone application that enables full commissioning of the unit as well as control and monitoring of operating parameters during the operational phase.

This exclusive feature makes it easier for the user to become familiar with the unit and ensures optimised ease of control.

AIRFLOW RANGE COVERED



RANGE AND PRODUCT NUMBER(S)

Product	Code	Unit without coil	Unit with integrated electrical post-heating coil	Unit with hot water post-heating coil in external box
CXc304	11060870	•		
	11060875		•	
	11060880			•
CXc307	11060871	•		
	11060876		•	
	11060881			•
CXc310	11060872	•		
	11060877		•	
	11060882			•

Product	Code	Unit without coil	Unit with integrated electrical post-heating coil	Unit with hot water post-heating coil in external box
CXc315	11060873	•		
	11060878		•	
	11060883			•
CXc320	11060874	•		
	11060879		•	
	11060884			•

AREAS OF APPLICATION



- New.
- Refurbishment
- Public or private premises.
- Schools.
- Healthcare buildings (excluding hospitals).

STANDARD(S), REGULATION(S) AND CERTIFICATION(S)

CXc300 compliance

- ERP 2018-compliant
- ERP: Public-access buildings (categories 1 to 4)
- AAHE: Eurovent certification programme for rotary heat exchanger
- EEC: BAT-TH-126

ACCESSORIES

3-way valve and servomotors

Coil output power is controlled by a 0-10V servo motor associated with a 3-way valve. These two components should be ordered as separate accessories and fitted on site.

Descriptions	References
3-way valve T304 T307 T310 CXc300	11060886
3-way valve T315 T320 CXc300	11060887

Motorable shut-off damper

- Sealed jointed-disk damper (overmoulding on the disk ensures excellent resistance over time).
- Double-lip seal at each junction.
- RGE: screw-locked adjustment handle. Shafts made of Zamak alloy.
- High jumper for rebated insulation without covering the handle.
- To motorise RGE dampers starting at 355 mm diameters: order the adapter plate (11055122) separately for universal mounting of different motors.
- Motor: 2 N/m for RGE Ø 125 to 200, 4-5 N/m for RGE Ø 250 to 500.
- Beyond Ø 500, for reasons of mechanical strength, a CRGE with connection plates of the same Ø as the ducting must be provided.



CXc300 model	Damper	References
CXc304	RGE 200 Motorised	11055219
CXc307	RGE 250 Motorised	11055220
CXc320	RGE 315 Motorised	11055221

VERSION WITH ELECTRICAL COIL (FACTORY-FITTED)

Built-in electrical coils

Unit with electrical coil	Power supply	Power (kW)	Max. current phase
11060875	230V+E+N	1.2 kW	5.2 A
11060876	230V+E+N	2.0 kW	8.6 A
11060877	230V+E+N	3.0 kW	13.10 A
11060878	230V+E+N	4.0 kW	17.40 A
11060879	230V+E+N	6.0 kW	26 A

VERSION WITH HOT WATER COIL (TO BE FITTED ON SITE)

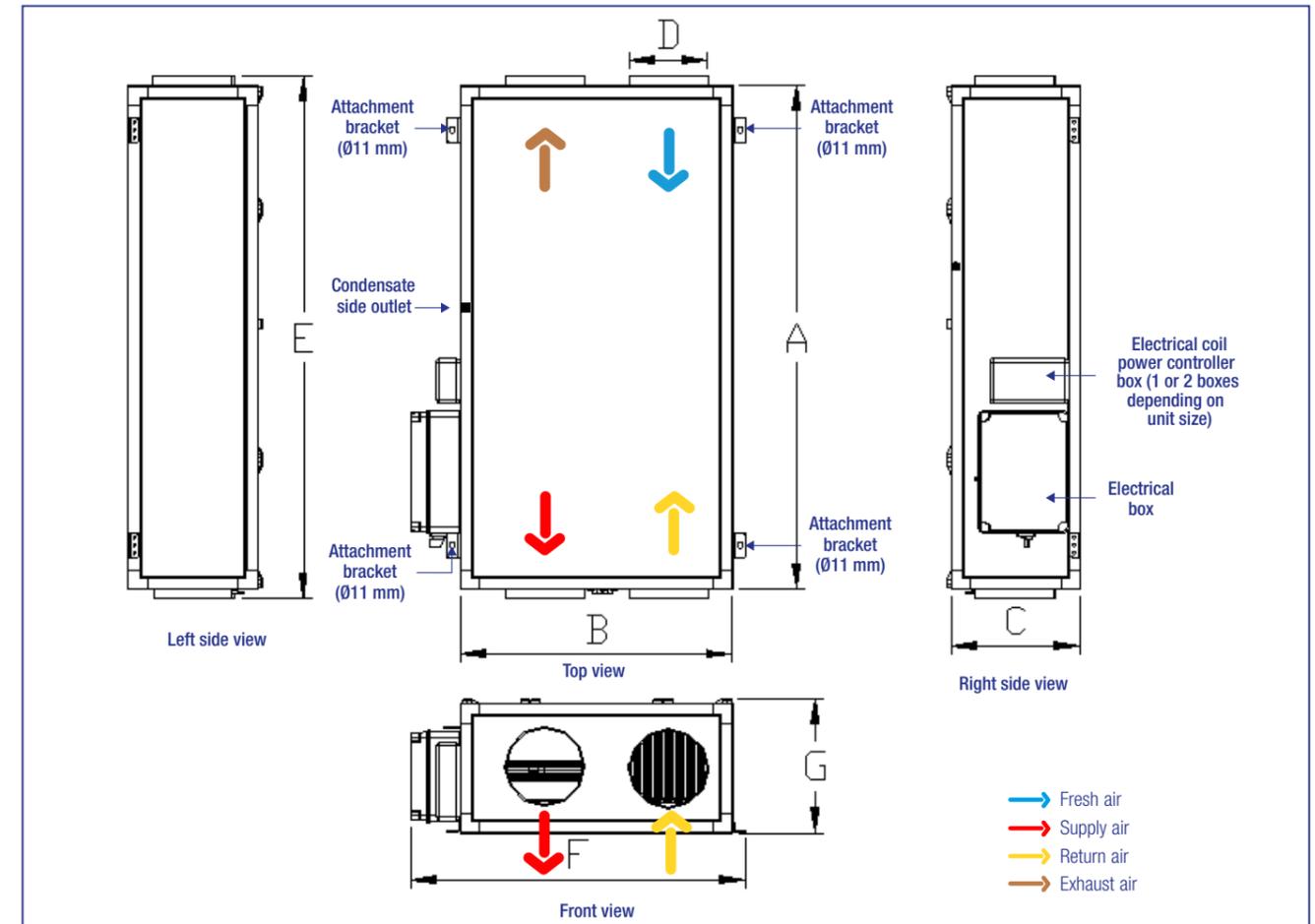
The CXc300 is available in a version with a hot water post-heating coil for on-site installation. For each size of unit, this coil has the power to blow at neutral temperature into the room(s) ventilated. The heat output of the hot water coil is adjusted by the CXc300 controller via a 0-10V signal sent to a servomotor and a 3-way valve (two accessories to be ordered separately).

FILTERS

Model	Fresh air	Return air
CXc304	11060890	F7 filter CXc304
	11060895	M6 filter CXc304
CXc307	11060889	F7 filter CXc307
	11060894	M6 filter CXc307
CXc310	11060891	F7 filter CXc310
	11060896	M6 filter CXc310
CXc315	11060892	F7 filter CXc315
	11060897	M6 filter CXc315
CXc320	11060893	F7 filter CXc320
	11060898	M6 filter CXc320

further technical information to come or in progress

DIMENSIONS AND WEIGHT



Descriptions	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Diameters (Ø)	Weight (kg)
CXc304	1352	695	331	200	1432	855	342	200	85
CXc307	1352	870	350	250	1432	1030	361	200	113
CXc310	1352	1100	350	250	1432	1260	361	250	135
CXc315	1734	1430	372	250	1814	1590	383	250	180
CXc320	1734	1734	400	315	1814	1894	411	315	220

ELECTRICAL DETAILS

Electrical data

Descriptions	Power supply voltage	Main unit rated current (A)	Main unit power consumption (W)	Main unit protection rating	Unit rated current with electrical coil (A)	Power consumption with electrical coil (W)	Protection rating with electrical coil
CXc304	230V + E + N	2.60	343	20	7.80	1543	20
CXc307		5.10	1047	20	13.70	3047	20
CXc310		5.10	1047	20	18.10	4047	20
CXc315		5.10	1047	20	22.50	5047	32
CXc320		7.10	1507	20	33.10	7507	63

MAINTENANCE

To ensure correct operation of the CXc300 unit, it is advisable to have the equipment inspected and maintained by a suitable provider. All components requiring maintenance (filters, fans, electrical coils) are easily accessible from the underside of the unit. The main controller PCB, the coil power controller and the proximity switch are located in an electrical box on the side of the control unit. Access to these components is possible by removing a screw-on cover. Take care not to open the cabinet or the electrical coil power controller boxes without first switching off the mains power supply to the CXc300 unit. In all cases, these inspection and maintenance operations should be carried out by professionals.

Component	Operations	Annual frequency
Unit interior	Check the general state of contamination, deterioration and corrosion	1
	Check for condensation	2
	Check that control and regulation equipment is operating correctly	1
Filters	Check for contamination, odours and deterioration (leaks)	4
	Check the pressure switch	2
	Maximum filter replacement interval	1
Heat exchanger	Check for general contamination, deterioration and corrosion	1
	Check the power supply to the bypass servomotor	1
Fan	Check that the fan is operating correctly	2
	Check for general contamination, deterioration and corrosion	2
Condensate drip tray	Check the condition of the condensate drip tray and clean it if necessary	2
	Check the condition and operation of the siphon (not supplied)	4
	Check that the pipe is in good condition - water must be able to flow freely.	2
Outside air inlet and outlet connectors	Check that they are in good condition and allow air to circulate freely	1
	Check for general contamination, deterioration and corrosion	1
Electrical coil	Check that the coil is working properly (heating)	1
	Check that the manual reset thermostat is operating correctly	1
Hot water coil	Check that the servomotor and 3-way valve are operating correctly	1
Electrical box	Check that there are no traces of moisture.	1

Conduct design work

LEADING EDGE TOOLS FOR AIR HANDLING SYSTEM MANAGEMENT!

Access all our software from a single interface.



Single platform



Tutorials



Updates and new features

- Receive instant alerts on new updates for your Aldes software,
- Learn more about the Aldes software range,
- Watch all tutorials on a single platform,
- Swift solution integrated with your Windows environment.

FOCUS ON...



Aldes CAD Library

Access our free BIM object library and find Aldes products easily in native REVIT format as well as in 2D/3D formats (DWG and DXF) that are compatible with multiple CAD software programs. Aldes CAD Library, the platform that supports you in designing your BIM projects for the construction and sustainable development of buildings.



Selector VEX400/500/600/700T/700H DEXc300/CXc300

Configuration assistance software for compact air handling units VEX 400, 500, 500 C4, 600, 700T 700H, DEXc300 and CXc300 with simulated thermal outputs and access to all technical data.



Secure your commissioning

ALDES COMMISSIONING

Your products are installed, wired, connected to air ducts, with grilles fitted, acoustic sound attenuator also if planned, and are ready to be started. Contact the nearest Aldes Branch service centre to activate your Commissioning offer. An approved professional will come and commission your equipment within a maximum of ten business days⁽¹⁾ (travel costs included for Metropolitan France, excluding Corsica).



Verifications

- **Installation:** Compliance of location and access, installation and assembly
- **Airflow connections:** Check for leaks, consistency of visible ducting and airflow inlets / outlets (supply / return)
- **Equipment:** Compliance of assembly, required modules fitted (VMT MOD)
- **Electrical check:** Mains power supply, wiring check on ancillary components.



Settings

- UNITS:
- **Set points:** general settings, airflow, pressure, voltage, heating
 - **Operating ranges:** Temperature, airflow, energy recovery
 - **Time range**
 - **Alarm configuration**
- VMT MOD:
Associate modules, store configurations, activate sensors



Measurements and functional tests

- UNITS:
- **Operating points:** current, voltage, pressure, pressure losses
- VMT MOD:
Check system operation, check LED signals in modules



Advice and commissioning report

Explanation of different functions, advice on use and submission of a commissioning report.

Range of services	Service reference	Max. number of additional commissioning tasks per day	Additional commissioning codes
Commissioning / CX3000 / DEX3000 / VEX400 / DEXc300 / CXc300	11199001	4	11199002
Commissioning VEX500 / VEX600 / VEX5000	11199003	3	11199004
Commissioning VEX200 / VEX700T / VEX1000RS	11199005	2	11199006
Commissioning VEX200 / VEX700T / VEX1000RS (delivery included)	11199007	2	11199008
Commissioning VMT MOD ⁽¹⁾	11199011	7	11199012
Heat recovery joint inspection ⁽²⁾	11099923		
Corsica fixed travel fee	11199013		
Controller adaptation service VEX400 (in addition to commissioning service)	11199017		

(1) The fixed charge includes the commissioning of an VMT MOD system for a part (pilot mod). (2) If commissioning is impossible during the intervention.

Training

ALDES TRAINING



Expand your activity

- Enhance your image,
- Sell more added-value solutions,
- Develop your turnover and profit margin.



Improve your day-to-day

- Upgrade your knowledge about construction trades,
- Improve your performance,
- Save time (better diagnostics).

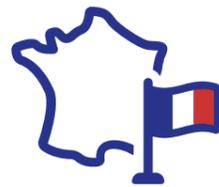


Prepare the way ahead

- Discover the latest technical innovations and acquire new commissioning techniques

Range of services	Duration	Fitters	Servicing providers	Distributors
Select and install exhaust and heat recovery ventilation systems in non-residential market	2 days	•	-	-
Install heat recovery units in non-residential market	3 days	•	-	-
Service and maintain heat recovery units in non-residential market	1 day	-	•	-

Aldes, a French family history and international presence



Aldes was founded in Lyon by Bernard Lacroix in 1925. It originally started out forming and manufacturing metal ventilation grilles.

Our solutions bring healthy, clean indoor air to buildings. Ventilation, thermal comfort, fire protection, and more: Aldes systems bring comfort and well-being. Aldes designs and manufactures reliable, efficient solutions. Through expert airflow management and driven by a capacity for regular innovation, Aldes solutions ensure the health of buildings and their occupants over the long term.



Aldes experts devote their time and energy to serve those responsible for erecting sustainable buildings. In the heart of French regions, close to trade professionals, our production sites breathe fresh air into construction and refurbishment projects, ensuring quality and energy savings for the long term.



Family-owned multi-brand group founded in France in 1925. Designer and manufacturer of air quality and thermal comfort solutions at the heart of the building.



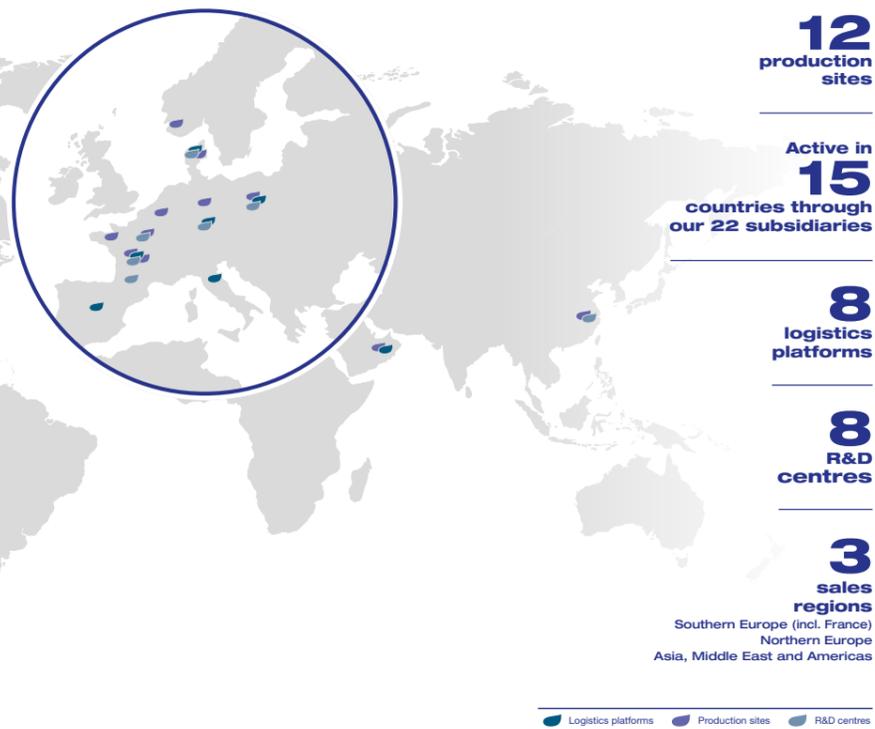
€393M*
revenue 2023
• 50% in France / 50% international
* Net pro forma revenue 2023

1900
employees
as of end 2023

60
countries covered

5
areas of expertise
Ventilation, Thermal Comfort, Fire protection, Air purification, Central vacuum cleaning

Main markets



aldes impact

Take committed and responsible action together

"Because all our daily actions have an **IMPACT** on our environment and our company, the Aldes group has developed its **CSR strategy : Aldes Impact, based on 4 major COMMITMENTS. Our aim is to take tangible ACTIONS for our employees, our customers, for our industry and society.**" stop.

Build a low-carbon value chain and share a sustainable vision with our partners.



USE A SUSTAINABLE OPERATING MODEL

Raise the positive impact of our products and preserve the quality of indoor air.



USE RESPONSIBLE SOLUTIONS

Build a low-carbon value chain and share a sustainable vision with our partners.



NOURISH OUR REGIONS AND INDUSTRY

Raise the positive impact of our products and preserve the quality of indoor air.



TAKE ACTION FOR HUMANITY

SELECTED ALDES INDICATORS

17 years
average lifetime of an Aldes product

4.3 TCO₂ eq.
(GHG) prevented by each Aldes fan unit installed⁽²⁾

24.7 MWh
of energy saved per Aldes fan unit installed⁽²⁾

TAKE ACTION AND MEASURE OUR IMPACT

Because taking action with responsible solutions also involves measuring the impact of our products. For over 50 years, we have combined energy efficiency and performance to ensure air quality inside buildings. Because today, given the issues surrounding the climate and health, our solutions are all the more essential for occupant health, as we must minimise the environmental footprint of our products and innovate by proposing solutions that blend well-being, comfort and efficiency.

1

Develop Eco-design

We are mobilised for a circular economy approach: Reduce / Reuse / Repair / Recycle.

- Performance indicator: number of products certified with an eco-label,
- 2030 target: 80% of products referenced with an eco-label.

2

Lead towards efficient and environmental use

We share the information and tools required to enable the most appropriate choices in terms of needs and uses, while minimising the impact on our planet.

- Performance indicator: percentage of solutions with eco-guides in software and manuals,
- 2030 target: 100% of motorised products with an eco-label (except fire products).

3

Build to last and ensure long-term performance, leverage our expertise and data services

We are committed to extending the lifetime of solutions and to maintaining them at a high level of operating performance.

- Performance indicator: service revenue,
- 2030 target: 20% of our revenue from services.

For further information,
contact your Aldes sales advisor or
visit our site at aldes.fr/contact

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2026
Edition



French
manufacturer
since 1925

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Separate elements before sorting
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RCS Lyon 956 506 828

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