

# AIR PURIFICATION AND HEAT RECOVERY VENTILATION TECHNICAL-SALES DOCUMENTATION



## InspirAIR® Top


THE CONNECTED HEAT RECOVERY VENTILATION AND AIR PURIFICATION SOLUTION THAT FILTERS EFFICIENTLY THE FINEST POLLUTANTS AND ADAPTS ITSELF TO YOUR NEEDS

#HealthyLiving\*



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Things are clear.

Today, we spend over 90 % of our time indoors and the air we breathe is up to 8 times more polluted than outdoor air. This is why it is urgent to join to

## **AIR REVOLUTION**

and strive to combat CO<sub>2</sub>, fine particles and all these invisible enemies that affect our health by causing allergies, insomnia or respiratory diseases.

**With its InspirAIR® range, Aldes enables everyone to improve the indoor air quality of their home and adapt it to their needs.**

**LOW FINE PARTICLE LEVELS**

**IN A BEDROOM**

**MAY INCREASE THE LIKELIHOOD**

**OF EFFICIENT SLEEP BY UP TO 50%.<sup>(1)</sup>**





# InspirAIR® Top

**UP TO 80 % OF EPM1<sup>(2)</sup> POLLUTANTS FILTERED.**

(1) Calculated based on 8 hours of sleep.

Source: Relationship of Air Pollution to Sleep Disruption: The Multi-Ethnic Study of Atherosclerosis (MESA) Sleep and MESA-Air Studies; M.E. Billings et al., 2017.

(2) ePM1: fine particles of 1 micrometer with the bacteria filter.

## WHY CHOOSE INSPIRAIR® TOP?

**For air quality**

Widest range of filters on the market and custom recommendations  
Automatic ventilation control based on indoor air quality  
via multi-pollutant sensors (CO<sub>2</sub>, PM 2.5, VOC)  
Exclusive radon mode  
Enthalpic exchanger to guarantee optimal humidity in indoor air

**For performance**

Benchmark thermic and electrical performances  
Made in France  
Complete and performant ventilation network system solution

**For comfort**

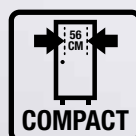
Very silent unit  
Automatic bypass for night cooling

**For end user interaction**

Light signal informing about unit status  
Intuitive InspirAIR® remote controls  
AldesConnect™ app and Smart Home interoperability

**For interaction with professionals**

Small dimensions for installation in standard 600 x 600 mm cupboard  
Easy inversion of airflows  
Easy to install, configure and maintain  
Support from selection to maintenance with Aldes digital tools





Aldes  
Connect™

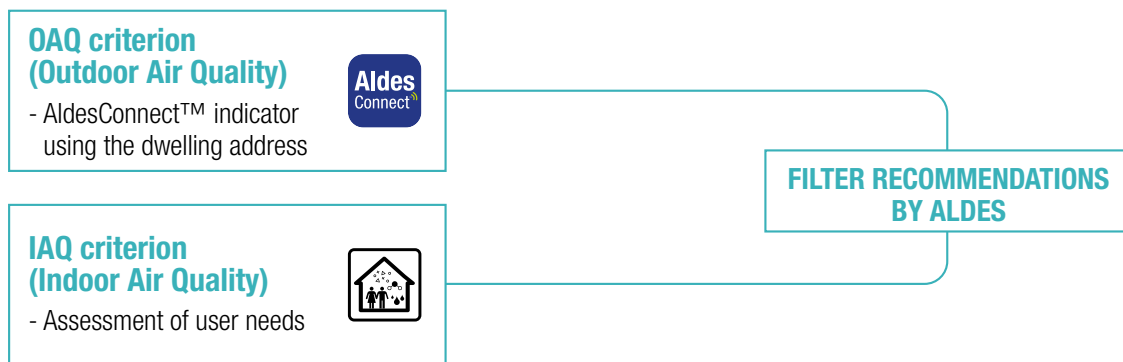


ALDES ACTS FOR AIR QUALITY

Aldes acts for air quality through innovative functions and the widest range of filters on the market, to cover all types of exterior pollutants.





ALDES EXPERTISE FOR AIR QUALITY AT HOME

The exclusive filter recommendation function is provided in the AldesConnect™ app. It analyses the quality of outdoor air and questions the end user on his requirements in terms of indoor air quality (especially for allergies or potential pathologies) and can then recommend the most appropriate filters for their needs.



PERFORMANCE OF FILTRATION SOLUTION EXCLUSIVE TO ALDES

A range of filters suited to both users needs and their outdoor environment.

EXAMPLES OF POLLUTANTS	 Pollen > 10 µm	 Fine particles 10 µm	 Fine particles 2.5 µm	 Bacteria 1 µm	 Volatile organic compounds
	Airborne pollution: soil, sand, ash	Pollen, grass	Urban pollution: vehicle & industrial emissions	Bacteria	Odours
<b>POLLEN FILTER</b>	Coarse 65 %	-	-	-	-
<b>PARTICLE FILTER</b>	-	ePM10 50 %	-	-	-
<b>FINE PARTICLE FILTER</b>	-	ePM10 85 %	ePM2.5 65 %	ePM1 50 %	-
<b>BACTERIA FILTER</b>	-	ePM10 95 %	ePM2.5 95 %	ePM1 80 %	-
<b>VOC filter</b>	-	ePM10 85 %	ePM2.5 65 %	ePM1 50 %	Serves to eliminate gases and COV from incoming air

Filtration levels expressed as per ISO 16980

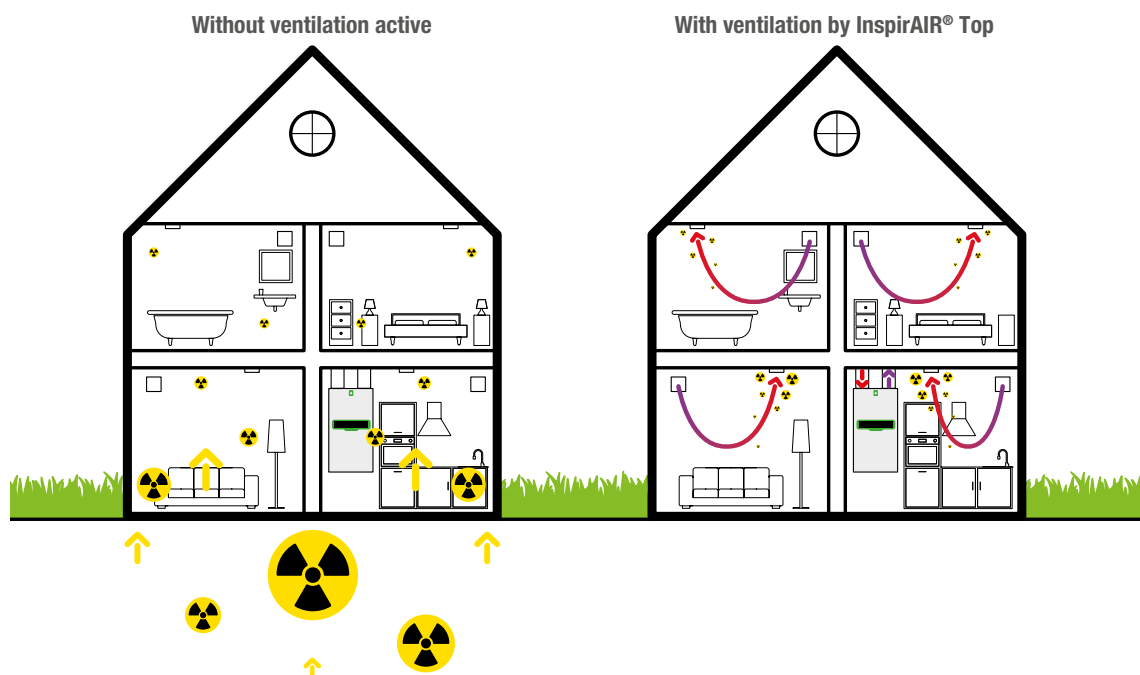


**RADON**

Radon is a radioactive gas naturally present in the soil of certain regions. It infiltrates homes and cannot be captured efficiently by any filtration system. In the long term, exposure to this gas may be harmful to health. InspirAIR® Top acts through a rapid configuration of ventilation imbalance, meaning that air is quickly renewed in rooms without discomfort for occupants. This solution is recommended by the French Institute for Radiological Protection and Nuclear Safety (IRSN).



See the radon potential by township [click here](#)



Recommended by the French Institute for Radiological Protection and Nuclear Safety (IRSN)

**AUTOMATIC VENTILATION CONTROL ACCORDING TO INDOOR AIR QUALITY**

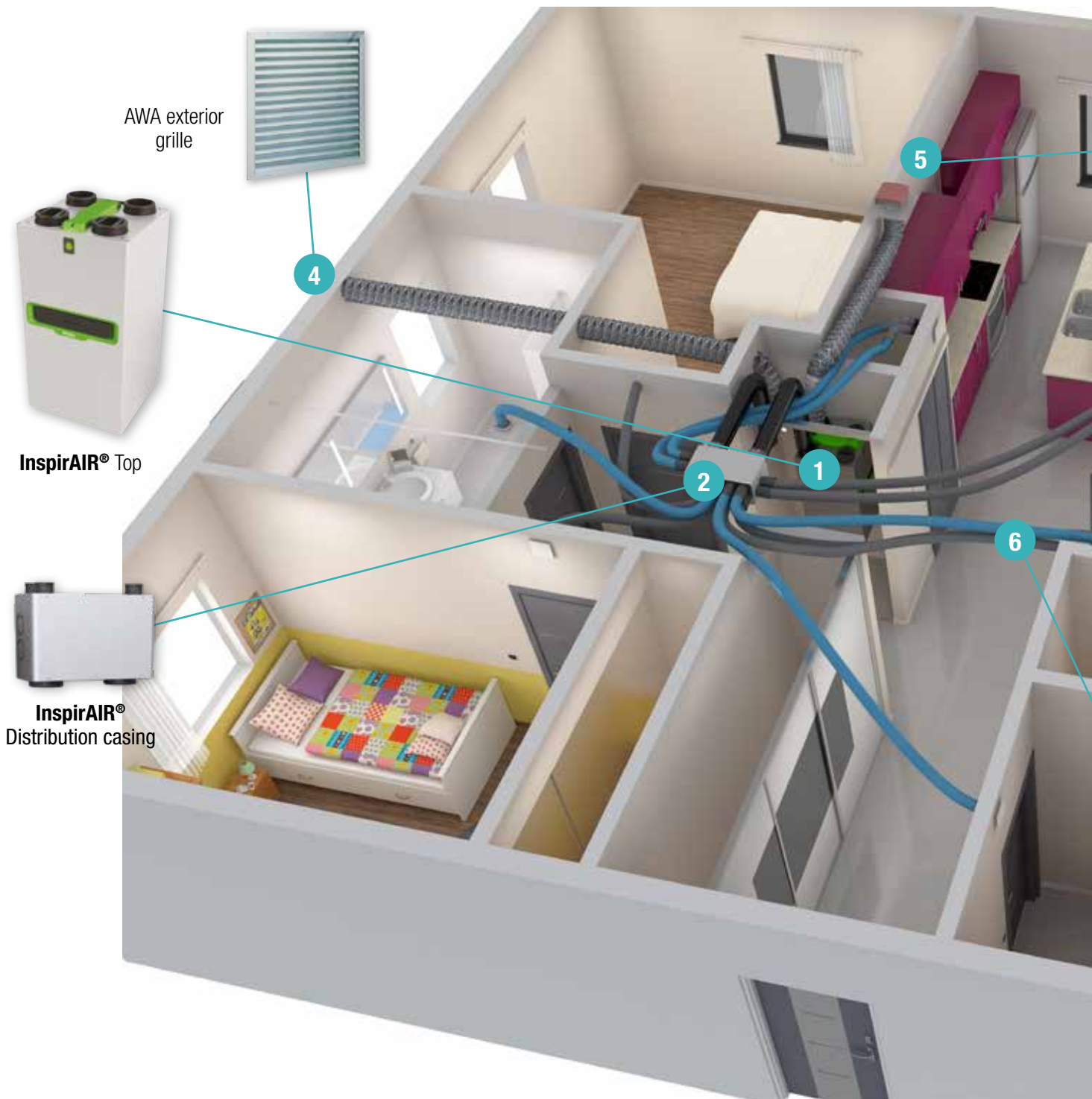
Aldes offers a range of air quality sensor accessories for installation in living spaces (lounges or bedrooms). The real-time measurement of indoor air quality enables the automatic adjustment of ventilation speeds to ensure healthy air for occupants.



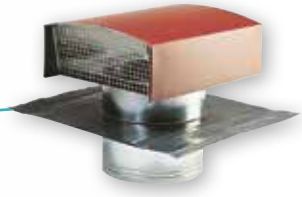
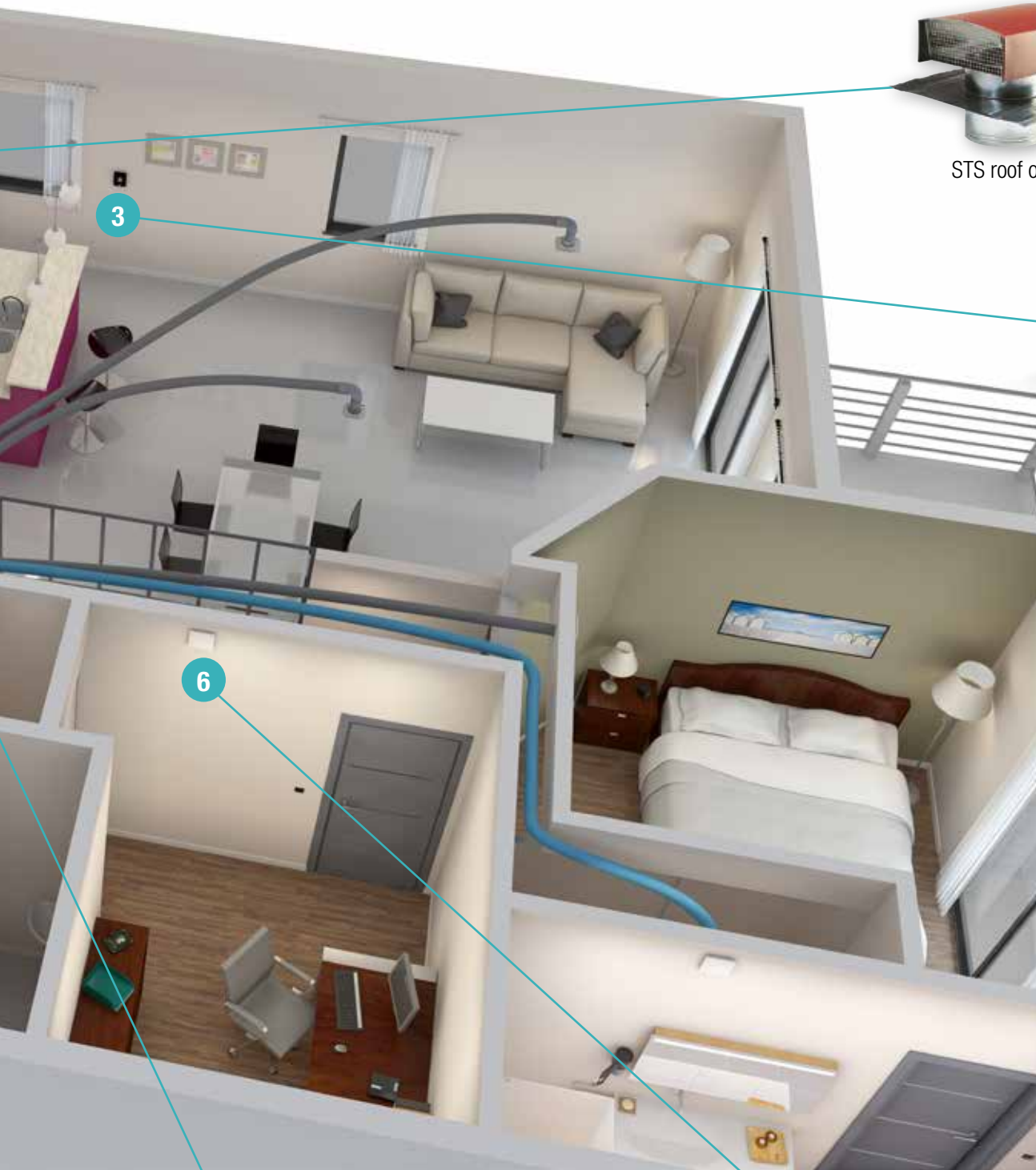
The Walter® connected sensor features 4 detectors that measure carbon dioxide (CO<sub>2</sub>), volatile organic compounds (VOC), fine particles with a diameter of or above 2.5 µm (PM2.5), temperature (T°) and humidity (H<sub>2</sub>O).



The InspirAIR® CO<sub>2</sub> remote control measures carbon dioxide (CO<sub>2</sub>).



- 1 InspirAIR® Top
- 2 InspirAIR® Distribution casing
- 3 Walter® air quality sensor
- 4 Fresh air inlet
- 5 Roof cowl
- 6 Air intake and exhaust ducting and terminals



STS roof outlet



Walter® air quality sensor

3

6



Optiflex® ducts & accessories



ColorLINE® grilles

## WALTER® AND INSPIRAIR® TOP: TWO ALLIES TO ENSURE AIR QUALITY



**walter**®

Measures and provides data on indoor air quality



**InspirAIR**® Top

Acts in real time to renew and purify the air we breathe

### More measurements

4 dedicated detectors to measure indoor air quality: CO<sub>2</sub>, PM 2.5, COV, HY and T°.

### More control

Adapts the extraction of polluted air and purifies the incoming air we breathe.

### More purified air

Cleanses incoming air of pollen, fine particles and bacteria via its unique filtration system.

#### PRINCIPLE OF OPERATION

The Walter® and InspirAIR® Top equipped with the AldesConnect™ Box communicate with each other over the home wireless network.

Associating Walter® with InspirAIR® Top requires the use of the AldesConnect™ app.

The two products communicate with each other constantly to adapt the ventilation speed.

The AldesConnect™ app enables the user to consult the status of Walter® and InspirAIR® Top in real time.





ALDESCONNECT™

Discover the functions offered by your AldesConnect™ application:  
It is now possible to act on the quality of indoor air in total serenity...



Switch to daily mode, boost or guest depending on your needs, or activate a programmed schedule.



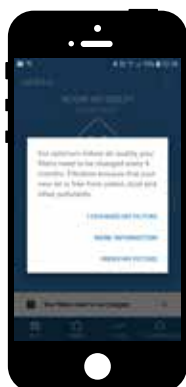
View outdoor air quality and get advice on outdoor activities.



Going on holiday? Active holiday mode and set your return date.



View the indoor air quality level by day, by week and by month.



Be informed when it's time to change filters and order them online.



Set ventilation modes hour by hour on a weekly basis.



The AldesConnect™ Box modem is delivered with InspirAIR® Top Premium. InspirAIR® Top Classic is compatible with the modem available as an accessory.

Order filters and the AldesConnect™ Box at [www.aldesconnect-filters.com](http://www.aldesconnect-filters.com)



SMART HOME INTEROPERABILITY

InspirAIR® Top includes the Modbus protocol as standard. It enables the unit to be connected to a local supervision system. InspirAIR® Top can also be integrated into a variety of home automation systems (e.g. Sowe) for ventilation control that precisely matches your needs (with AldesConnect™ Box).



**MANUAL CONTROL**

For more day-to-day comfort and control

**Ventilation modes**



**DAILY**

Daily mode corresponds to the ventilation speed required for normal air renewal throughout the home on a day-to-day basis. It has no time limit.



**BOOST**

Boost mode is used to manually activate high speed mode when required, to increase airflow in a kitchen, shower room etc.



**HOLIDAY**

Holiday mode reduces the ventilation speed to a minimum for a specified duration, thereby reducing energy use when the dwelling is unoccupied.



**GUEST**

GUEST mode puts the system at maximum airflow setting. If the indoor air is highly polluted, this airflow can evacuate pollutants more rapidly. It is time-limited to 8 hours. When this time has expired, the system automatically returns to Daily mode.

**Multiple functions**

**Summer comfort**

An automatic bypass serves to exclude the heat exchanger when you wish to inlet cool outdoor air.

**Winter comfort**

Combined with a pre heating coil accessory, the unit heats incoming air in the heat exchanger and ensures correct operation of ventilation down to outdoor temperatures of -30°C.

**Open fireplace mode**

The system generates overpressure to enable easy lighting and operation of an open fireplace.

**LIGHT SIGNAL**

InspirAIR® Top Premium is equipped with a light signal on the front panel which changes colour to inform the occupant of its operating state.



Air quality is good



Air quality is deteriorating

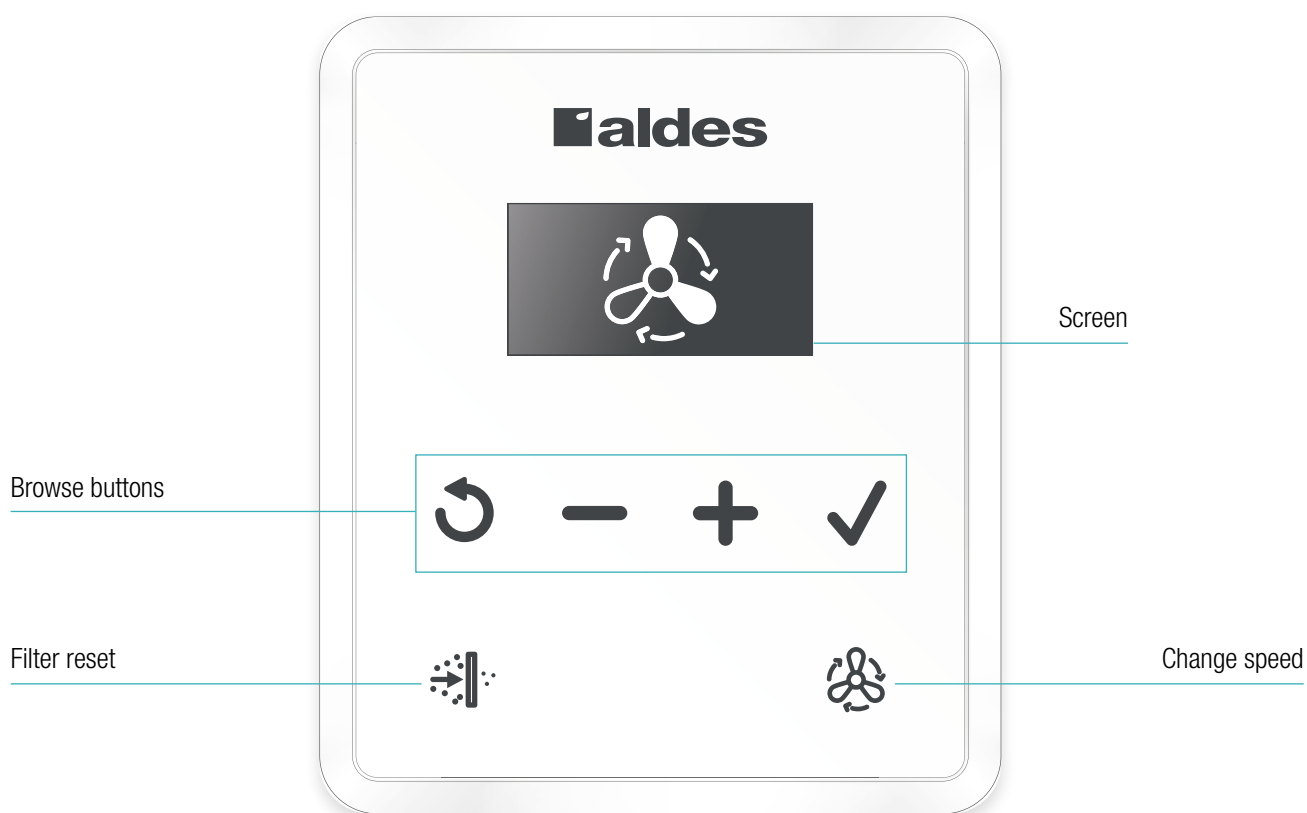


Filter replacement alert



Major malfunction signal

## REMOTE CONTROL



## New remote control with elegant design

- Sold as an accessory, available in 2 versions (with or without CO<sub>2</sub> sensor)
- Dimensions: 92.5 x 110 x 26 mm
- 6 buttons and 2 LED lights for easy browsing and clear indications
- 2 user profiles:

## USER

- Opt for automatic control of your ventilation according to air quality measured by a built-in high-precision 0-5000 ppm CO<sub>2</sub> sensor (CO<sub>2</sub> version remote control)
- Select the unit ventilation speed (Holiday, Daily, Boost or Guest)
- Reset filter timer after changing filters
- Configure a “weekly schedule” to reduce or increase ventilation according to the day and hour

## INSTALLER

(password protected) / (Non-exhaustive list)

- Select the control mode: constant airflow or constant speed (self-balanced control)
- Adjust airflow (m<sup>3</sup>/h or l/s) or speed (%) depending on the control mode selected
- Adjust an imbalance (air supply / exhaust)
- Select a duration for each specific control mode (Holiday / Boost / Guest)
- Access unit operation states during maintenance operations
- Install software updates via the USB port

Further information available in the remote control manual.

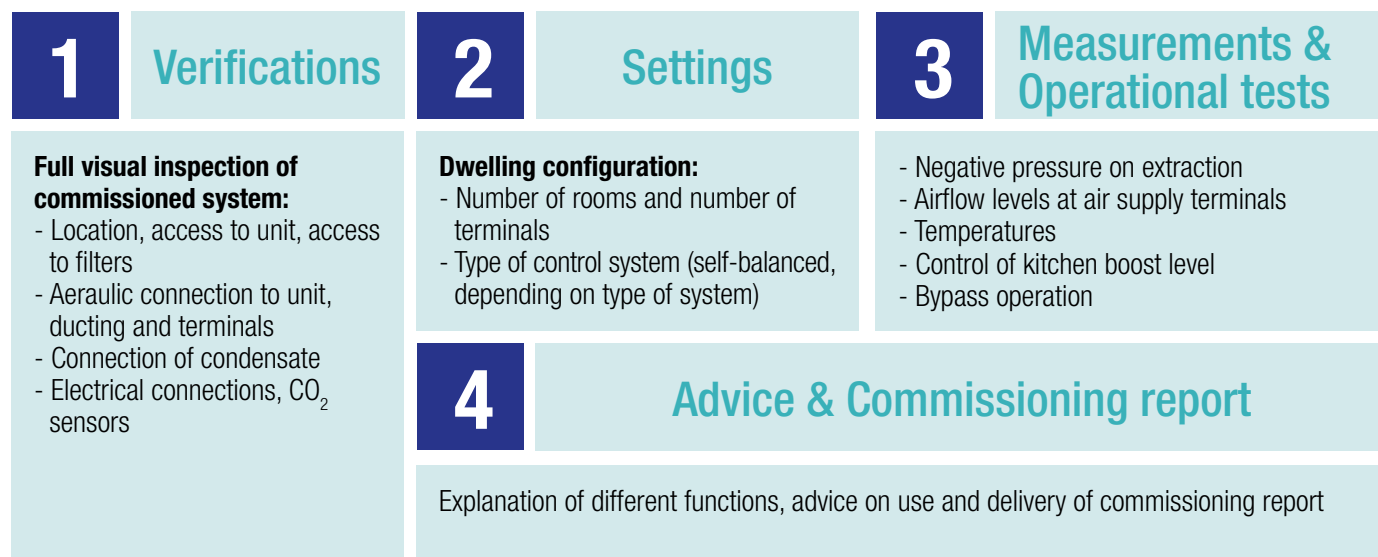




## ALDES SERVICES

The Aldes Service team supports installers with Commissioning packages for InspirAIR® units and the associated ventilation network.

The intervention is divided into 4 key phases:



The +

Your warranty starts on the actual date of commissioning by Aldes!

Range of services*	Product reference concerned	Reference code
<b>HRV system commissioning travel included</b>	InspirAIR® Top 300 Classic & Premium	11199015
<b>Commissioning of additional unit</b>	InspirAIR® Top 450 Classic & Premium	11199016
<b>HRV commissioning follow-up inspection</b>	InspirAIR® Top 300 & 450 Premium ERV	11199008

(1) Update in semester 2 2020

(2) Commissioning service for heat recovery ventilation (transport included).

(3) Addition of a Commissioning service done at the same location, on the same day as the first HRV, 5 additional for 1 main maximum (transport included).

(4) Additional visit if Commissioning was impossible during the first intervention (transport included).

ALDES BUSINESS DIGITAL TOOLS

TRADE TOOLS



**Conceptor Ventilation<sup>(1)</sup>** helps in the design and aerologic dimensioning of your ventilation networks (exhaust or heat recovery) in single family dwellings or multi-occupancy buildings. It calculates duct diameters according to the exhaust airflow generated by the fan and pressure losses.



**Selector poWair<sup>(1)</sup>** helps to select the right fan unit (exhaust or heat recovery) and the associated ducting for single family dwellings or multi-occupancy buildings in light of applicable regulations. It also serves to calculate fan consumption based on the pressure losses of each project.



**Aldes Configurator<sup>(2)</sup>** supports the installer through the installation, configuration, commissioning and maintenance of InspirAIR® and the complete ventilation network. It allows to save configurations and generate work reports, to provide proof of quality and traceability.

Download the Aldes softwares directly here: <https://services.aldes.com/logiciels>

BIM OBJECT DOWNLOAD PLATFORM

Aldes CAD Library

Enjoy free and direct access (no user account required) to our library of smart 3D objects and easily locate Aldes product objects in REVIT™ native format as well as DWG 3D and DXF 2D formats compatible with many CAD solutions. Aldes CAD Library, the platform that supports your BIM project design for the sustainable construction and outfitting of buildings.

Visit [cad.aldes.com](http://cad.aldes.com)

ALDES TRAINING

aldes formation		Installation	Maintenance
Heat recovery CMEV	Title	Heat recovery ventilation In new and refurbished individual housing	Heat recovery ventilation maintenance in individual housing
	Duration	2 days	2 days
	Fields of application		
	Audience	Installers, design offices, design managers	Maintenance provider technicians

Check the Aldes training catalogue and schedule on [www.services.aldes.com](http://www.services.aldes.com) in the “Aldes training” section or send us an email: [aldes.formation@aldes.com](mailto:aldes.formation@aldes.com), by phone: +33 (0)442 327 766



(1) Software available on PC - Update during semester 2 2020

(2) Software available on PC (via USB connection to InspirAIR™) or app - Available during semester 2 2020

## EXPLODED VIEW

## InspirAIR® Top



- A** Light signal
- B** 4 Ø160 aeraulic connections
- C** Easy-access to high-efficiency motors
- D** Filter cap to be removed without any tool
- E** Adaptable air filters
- F** High-efficiency heat exchanger
- G** 100 % automatic bypass

## RANGE DESCRIPTION

- 2 airflow settings (300 m³/h and 450 m³/h)
- 2 finitions (Classic and Premium)
- 2 control modes (constant flow and constant speed)
- 2 references with enthalpic exchanger

## PROJECT TYPES





- Single-family dwellings and multi-occupancy housing
- New buildings and major refurbishments

## RANGE AND REFERENCES

### INSPIRAIR® TOP

Description	Reference	Energy class
<b>InspirAIR®</b> Top 300 Classic	11023473	A
<b>InspirAIR®</b> Top 300 Premium	11023474	A
<b>InspirAIR®</b> Top 300 Premium ERV	11023477	A
<b>InspirAIR®</b> Top 450 Classic	11023475	A
<b>InspirAIR®</b> Top 450 Premium	11023476	A
<b>InspirAIR®</b> Top 450 Premium ERV	11023478	B

## SCOPE OF SUPPLY

	 CLASSIC	 PREMIUM
Wall mounting cradle	Included	Included
Ø 160 connector for aeraulic connection	Included	Included
Electrical power cable (1.5 m - 2 x 1 mm²)	Not included	Not included
Water trap kit	Not included*	Not included*
AldesConnect™ modem	Not included*	Included
<b>InspirAIR®</b> CO <sub>2</sub> remote control	Not included*	Not included*
<b>InspirAIR®</b> remote control	Not included*	Not included*

\* Available as accessories

## STANDARDS AND REGULATIONS

## NF 205 AUTO CERTIFICATION



Article	Designation	Area of employment (m³/h)		Thermic efficiency	Weighted electrical power (W/Th/C)
		Min	Max		
11023474	<b>InspirAIR® Top 300 Premium</b>	60 (T2)	210 (T5 et + jusqu'à 4 sanitaires)	96.0 %	69.1
11023476	<b>InspirAIR® Top 450 Premium</b>	90 (T3)	240 (T5 et + jusqu'à 5 sanitaires)	94.0 %	83.5

## PASSIV HAUS CERTIFICATION



Article	Designation	Area of employment (m³/h)		Thermic efficiency	SPI (W/m²/h)
		Min	Max		
11023473	<b>InspirAIR® Top 300 Classic</b>	86	254	86.0 %	0.24
11023474	<b>InspirAIR® Top 300 Premium</b>	86	254	87.0 %	0.27
11023475	<b>InspirAIR® Top 450 Classic</b>	107	362	86.0 %	0.33
11023476	<b>InspirAIR® Top 450 Premium</b>	107	362	87.0 %	0.37

## PEB CERTIFICATION



Article	Designation	180 m³/h	230 m³/h	280 m³/h	330 m³/h
11023473	<b>InspirAIR® Top 300 Classic</b>	87.0 %	85.0 %	84.0 %	83.0 %
11023474	<b>InspirAIR® Top 300 Premium</b>	87.0 %	86.0 %	85.0 %	85.0 %

Article	Designation	260 m³/h	320 m³/h	400 m³/h	470 m³/h
11023475	<b>InspirAIR® Top 450 Classic</b>	84.0 %	83.0 %	81.0 %	79.0 %
11023476	<b>InspirAIR® Top 450 Premium</b>	88.0 %	86.0 %	84.0 %	83.0 %

Article	Designation	Max employment area	P elec Fan (W)
11023473	<b>InspirAIR® Top 300 Classic</b>	332 m³/h @ 196 Pa	67
11023474	<b>InspirAIR® Top 300 Premium</b>	330 m³/h @ 200 Pa	73,8
11023475	<b>InspirAIR® Top 450 Classic</b>	473 m³/h @ 190 Pa	128,4
11023476	<b>InspirAIR® Top 450 Premium</b>	475 m³/h @ 190 Pa	146,5

ACCESSORIES

Description	Reference
Connected air quality sensor <b>Walter®</b>	11023470
<b>InspirAIR®</b> CO <sub>2</sub> remote control	11023480
<b>InspirAIR®</b> remote control	11023479
AldesConnect™ Box	11023386
CO <sub>2</sub> sensor	11017090
230V / 24V power supply for CO2 sensor	11017180
2 speed remote control wired	11026011
<b>InspirAIR®</b> Top condensate kit	11023483
<b>InspirAIR®</b> Top floor mounting kit	11023484
<b>InspirAIR®</b> Top ceiling manifold	11023485
OCTA 160 sealed sound attenuator	11094633
<b>InspirAIR®</b> external preheating coil	11023225
<b>InspirAIR®</b> Top internal preheating coil	11023486
<b>InspirAIR®</b> Top external post-heating coil	11023487




CONSUMABLES

Description	Reference
<b>InspirAIR®</b> Top dust filter	11023490
<b>InspirAIR®</b> Top pollen filter	11023491
<b>InspirAIR®</b> Top particle filter	11023492
<b>InspirAIR®</b> Top fine particle filter	11023493
<b>InspirAIR®</b> Top bacteria filter	11023494
<b>InspirAIR®</b> Top particle + VOC filter	11023495






## MAIN FEATURES

## INSPIRAIR® TOP RANGE

	InspirAIR® Top 300 Classic 	InspirAIR® Top 300 Premium 	InspirAIR® Top 300 Premium ERV 
<b>Indoor air quality &amp; filtration</b>			
<b>Compatibility with Walter®</b>	With modem accessory	Standard	Standard
<b>Air supply filters (incoming)*</b>	Coarse 65 % with 48 mm fold	ePM10 50 % with 48 mm fold	ePM10 50 % with 48 mm fold
<b>Exhaust filter (outgoing)*</b>	Coarse 65 % flat	Coarse 65 % flat	Coarse 65 % flat
<b>Custom filter recommendations</b>	With modem accessory	Yes	Yes
<b>Radon mode</b>	Yes	Yes	Yes
<b>Humidity recovery</b>	No	No	Yes
<b>Performance</b>			
<b>Maximum airflow</b>	330 m³/h @ 200 Pa	331 m³/h @ 200 Pa	332 m³/h @ 200 Pa
<b>ErP - SPI (W/m³/h)</b>	0.17	0.20	0.20
<b>Thermic efficiency following EN 13141-7 Conditions : 7°C</b>	94% @ 60 m³/h 88% @ 240 m³/h 87% @ 345 m³/h	94% @ 60 m³/h 90% @ 240 m³/h 89% @ 345 m³/h	Heat alone following EN308 91% @ 100 m³/h 89% @ 150 m³/h 86% @200 m³/h
<b>Acoustic – radiated sound level</b>	125 m³/h @ 60 Pa 43,4 dB(A) 220 m³/h @ 50 Pa 50,5 dB(A)	125 m³/h @ 60 Pa 39,9 dB(A) 220 m³/h @ 50 Pa 46,1 dB(A)	125 m³/h @ 60 Pa 38,9 dB(A) 220 m³/h @ 50 Pa 45 dB(A)
<b>Certifications</b>			
<b>NF Auto</b>	No	Yes	No
<b>PassivHaus</b>	Yes	Yes	Yes
<b>PEB</b>	Yes	Yes	Yes
<b>Dimensions</b>			
<b>Dimensions: L x H x D (mm)</b>	1088 x 560 x 560	1088 x 560 x 560	1088 x 560 x 560
<b>Weight (kg)</b>	28,0 kg	41,0 kg	41,0 kg
<b>Design</b>			
<b>Light signal</b>	Non	Yes	Yes
<b>Side panels on unit</b>	Non	Yes	Yes
<b>Control</b>			
<b>Constant airflow with 4 possible speed settings</b>	Yes	Yes	Yes
<b>Constant speed with 4 possible speed settings</b>	Yes	Yes	Yes
<b>Summer/Winter comfort - automatic bypass</b>	Yes	Yes	Yes
<b>Internal preheating coil 1,0 kW</b>	Accessory	Accessory	Accessory
<b>External preheating coil 1,5 kW</b>	Accessory	Accessory	Accessory
<b>External post- heating coil 300 W</b>	Accessory	Accessory	Accessory
<b>Connectivity</b>			
<b>Modbus</b>	Standard	Standard	Standard
<b>AldesConnect™</b>	With modem accessory	Standard	Standard
<b>0-10 V inputs/outputs</b>	2 x inputs / 1 x output	2 x inputs / 1 x output	2 x inputs / 1 x output
<b>On/off contact</b>	Yes	Yes	Yes
<b>Aldes Configurator</b>	Yes	Yes	Yes
<b>Installation &amp; Maintenance</b>			
<b>Easy reversal of airflows</b>	Yes	Yes	Yes
<b>Wall mounting kit</b>	Yes	Yes	Yes
<b>Floor installation feet</b>	Accessory	Accessory	Accessory
<b>Connectors for aeraulic connections</b>	D160 included in PPE	D160 included in PPE	D160 included in PPE
<b>Easy frontal access to all critical components</b>	Yes	Yes	Yes

\* As per ISO 16890

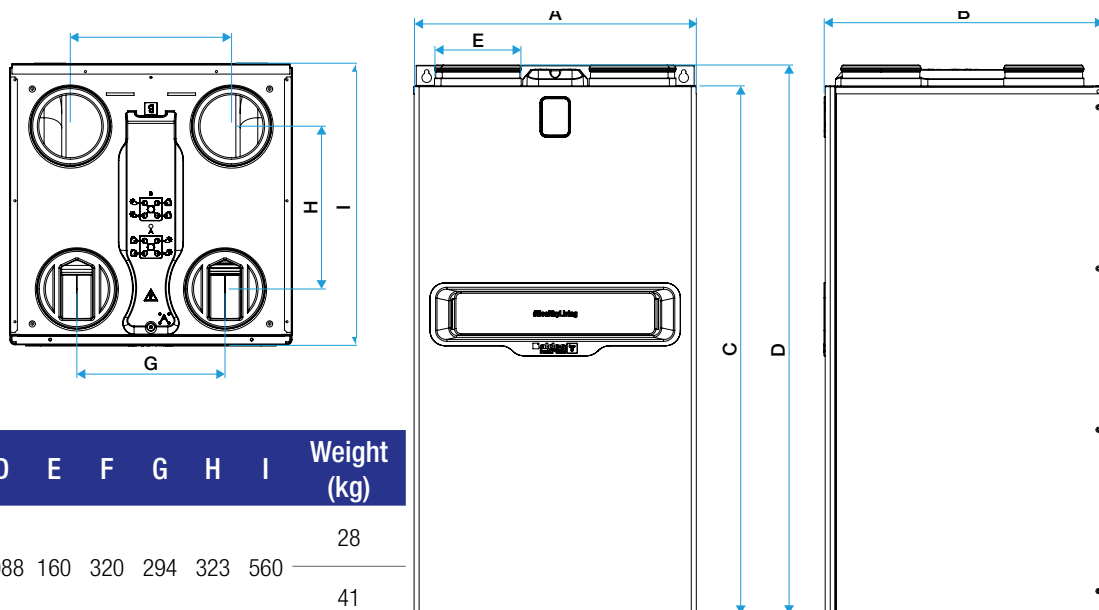


InspirAIR® Top 450 Classic	InspirAIR® Top 450 Premium	InspirAIR® Top 450 Premium ERV
		
With modem accessory	Standard	Standard
Coarse 65 % with 48 mm fold	ePM10 50 % with 48 mm fold	ePM10 50 % with 48 mm fold
Coarse 65 % with 48 mm fold	Coarse 65 % with 48 mm fold	Coarse 65 % flat
With modem accessory	Yes	Yes
Yes	Yes	Yes
No	No	Yes
470 m³/h @ 200 Pa	470 m³/h @ 200 Pa	470 m³/h @ 200 Pa
0.25	0.29	0.30
93% @ 90 m³/h 87% @ 329 m³/h 87% @ 470 m³/h	94% @ 60 m³/h 89% @ 240 m³/h 89% @ 345 m³/h	Heat alone following EN308 86% @ 200 m³/h 81% @ 300 m³/h 76% @ 400 m³/h
125 m³/h @ 65 Pa 42,6 dB(A) 315 m³/h @ 50 Pa 56,8 dB(A)	125 m³/h @ 65 Pa 42,7 dB(A) 315 m³/h @ 50 Pa 53,3 dB(A)	125 m³/h @ 65 Pa 41,1 dB(A) 315 m³/h @ 50 Pa 52,8 dB(A)
No	Yes	No
Yes	Yes	Yes
Yes	Yes	Yes
1088 x 560 x 560	1088 x 560 x 560	1088 x 560 x 560
28,0 kg	41,0 kg	41,0 kg
Non	Yes	Yes
Non	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Accessory	Accessory	Accessory
Accessory	Accessory	Accessory
Accessory	Accessory	Accessory
Standard	Standard	Standard
With modem accessory	Standard	Standard
2 x inputs / 1 x output	2 x inputs / 1 x output	2 x inputs / 1 x output
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Accessory	Accessory	Accessory
D160 included in PPE	D160 included in PPE	D160 included in PPE
Yes	Yes	Yes



DIMENSIONS AND WEIGHT

INSPIRAIR® TOP



Description	A	B	C	D	E	F	G	H	I	Weight (kg)
InspirAIR® Top Classic	560	560	1045	1088	160	320	294	323	560	28
InspirAIR® Top Premium										41

Dimensions in mm

ELECTRICAL DETAILS

Model	Power supply	IP rating	Max. current	Max. power
InspirAIR® Top 300	230V - 50/60 Hz single-phase	IP22, Class I	1.8 A	240 W
InspirAIR® Top 450	230V - 50/60 Hz single-phase	IP22, Class I	2.5 A	350 W

AERAILIC CONNECTION



InspirAIR® Top is designed for easy inversion of airflows on site.



The unit is delivered in configuration A. To switch to B, simply reverse the filters, confirm the change in the remote control and connect the condensate to the corresponding side.

**The change takes less than 5 minutes!**

	Air supply (indoors)		Extract air (indoors)
	Exhaust air (outdoor)		Fresh air (outdoor)



## ACOUSTIC PERFORMANCE

Unit alone (as per NF EN ISO 3741 02-2012 and NF EN ISO 5135 07-1999)

## INSPIRAIR® TOP 300 CLASSIC

Airflow Qv (m³/h)	Pressure $\Delta P_{st}$ (Pa)	Power consumption (W)	Product sound power level (Lw dB(A))	Sound pressure level Lw dB(A)	
				Extract	Supply
125	65	24	43,4	33,8	49,1
126	100	31	46,7	33,9	51,3
162	100	40	48,2	37	55,5
220	50	53	50,5	36,6	54,6
250	50	69	52,5	39,8	57,8

## INSPIRAIR® TOP 300 PREMIUM

Airflow Qv (m³/h)	Pressure $\Delta P_{st}$ (Pa)	Power consumption (W)	Product sound power level (Lw dB(A))	Sound pressure level Lw dB(A)	
				Extract	Supply
125	65	20	39,9	34,5	53,1
126	100	26	43,4	35,5	54,4
162	100	35	43,3	38,1	58,6
220	50	43	46,1	37,9	57,7
250	50	68	47,4	41,2	60,6

## INSPIRAIR® TOP 300 PREMIUM ERV

Airflow Qv (m³/h)	Pressure $\Delta P_{st}$ (Pa)	Power consumption (W)	Product sound power level (Lw dB(A))	Sound pressure level Lw dB(A)	
				Extract	Supply
125	65	20	38,9	33,1	52,8
126	100	27	43,7	34,6	54,3
162	100	33	46,9	38,2	58,2
220	50	40	45	37,6	57,3
250	50	52	47,4	40,9	60,2

## INSPIRAIR® TOP 450 CLASSIC

Airflow Qv (m³/h)	Pressure $\Delta P_{st}$ (Pa)	Power consumption (W)	Product sound power level (Lw dB(A))	Sound pressure level Lw dB(A)	
				Extract	Supply
125	65	22	42,6	38,5	59,6
315	50	111	56,8	43,8	63,4

## INSPIRAIR® TOP 450 PREMIUM

Airflow Qv (m³/h)	Pressure $\Delta P_{st}$ (Pa)	Power consumption (W)	Product sound power level (Lw dB(A))	Sound pressure level Lw dB(A)	
				Extract	Supply
125	65	27	42,7	40	60,6
315	50	93	53,3	44,8	65,4

## INSPIRAIR® TOP 450 PREMIUM ERV

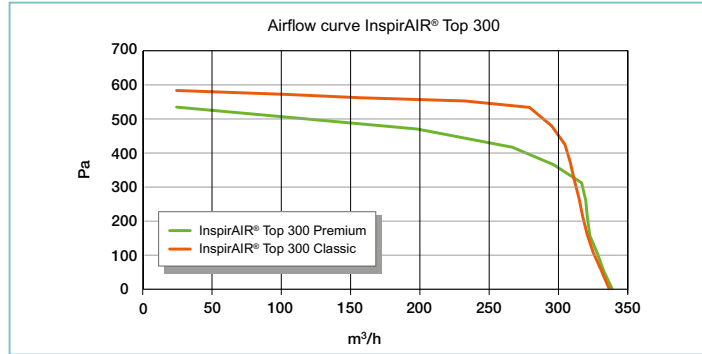
Airflow Qv (m³/h)	Pressure $\Delta P_{st}$ (Pa)	Power consumption (W)	Product sound power level (Lw dB(A))	Sound pressure level Lw dB(A)	
				Extract	Supply
125	65	29	41,1	41	60,1
315	50	95	52,8	45	65,4

**AIRFLOW CURVES (AIRFLOW / PRESSURE)**

**INSPIRAIR® TOP 300 CLASSIC / PREMIUM**

**Filter configuration 300 Classic:** air supply: "Pollen" (Coarse 65 %) / exhaust: Dust (Coarse 65 %)

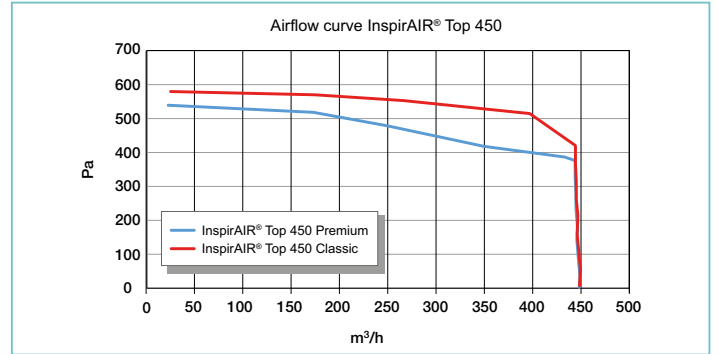
**Filter configuration 300 Premium:** air supply: "Particles" (ePM10 50 %) / exhaust: Dust (Coarse 65 %)



**INSPIRAIR® TOP 450 CLASSIC / PREMIUM**

**Filter configuration 450 Classic:** air supply: "Pollen" (Coarse 65 %) / exhaust: "Pollen" (Coarse 65 %)

**Filter configuration 450 Premium:** air supply: "Particles" (ePM10 50 %) / exhaust: "Pollen" (Coarse 65 %)



**THERMAL EFFICIENCY**

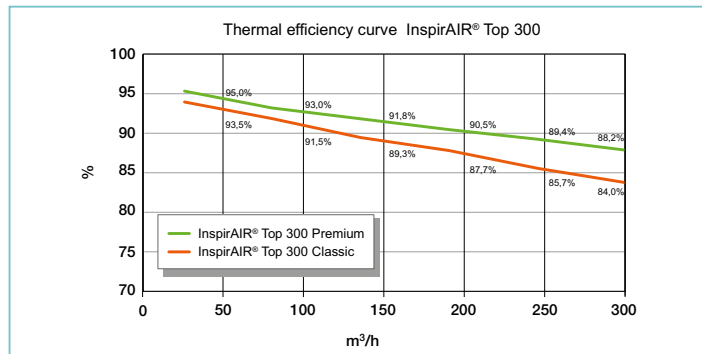
**INSPIRAIR® TOP**

Exchanger alone as per EN 308 (Source: supplier data)

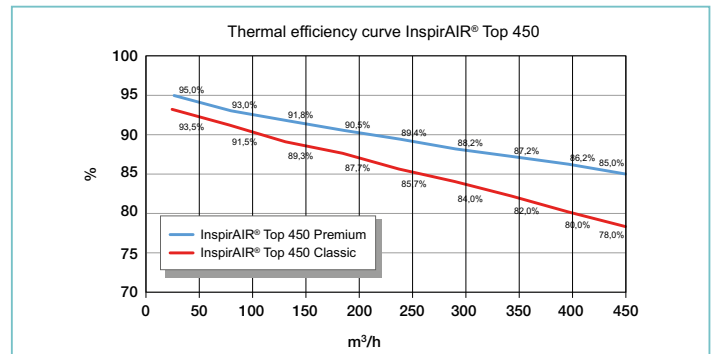
Test conditions:

- Outdoor air = dry air at 5°C, HR < 20 %
- Indoor air = dry air at 25°C, HR < 20 %

**INSPIRAIR® TOP 300 CLASSIC / PREMIUM**



**INSPIRAIR® TOP 450 CLASSIC / PREMIUM**



Thermic efficiency following EN 13141-7 - Conditions : 7°C

Article	Designation	60 m³/h	240 m³/h	345 m³/h
11023473	InspirAIR® Top 300 Classic	94.5 %	88.0 %	87.0 %
11023474	InspirAIR® Top 300 Premium	94.0 %	90.0 %	89.0 %
Article	Designation	90 m³/h	329 m³/h	470 m³/h
11023475	InspirAIR® Top 450 Classic	93.0 %	87.5 %	87.0 %
11023476	InspirAIR® Top 450 Premium	94.0 %	89.0 %	89.0 %

Thermic efficiency following EN 13141-7 - Conditions : 2°C

Article	Designation	60 m³/h	240 m³/h	345 m³/h
11023473	InspirAIR® Top 300 Classic	91.0 %	91.0 %	89.0 %
11023474	InspirAIR® Top 300 Premium	91.0 %	92.0 %	89.5 %
Article	Designation	90 m³/h	329 m³/h	470 m³/h
11023475	InspirAIR® Top 450 Classic	88.0 %	88.0 %	87.0 %
11023476	InspirAIR® Top 450 Premium	89.0 %	89.0 %	89.0 %





# #HealthyLiving\*

Because air is not just for us to breathe but it also helps us live a healthier life, Aldes commits to taking care of the health of each building occupant.

Our skills in air management enables us to help design indoor living spaces that are smart and caring. Where we live, work and have fun, Aldes watches over our well-being through innovative solutions that improve indoor air quality.

High-performance solutions that respect the environment, enabling the renewal and purification of indoor air, heating it, cooling it, and providing domestic hot water.

More than just a movement, **#HealthyLiving** embodies our principles of being caring and responsible, as well as our pioneering spirit.



For more information about **InspirAIR® Top**,  
contact your Aldes advisor,  
visit [aldes.com](http://aldes.com) or find us at:



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