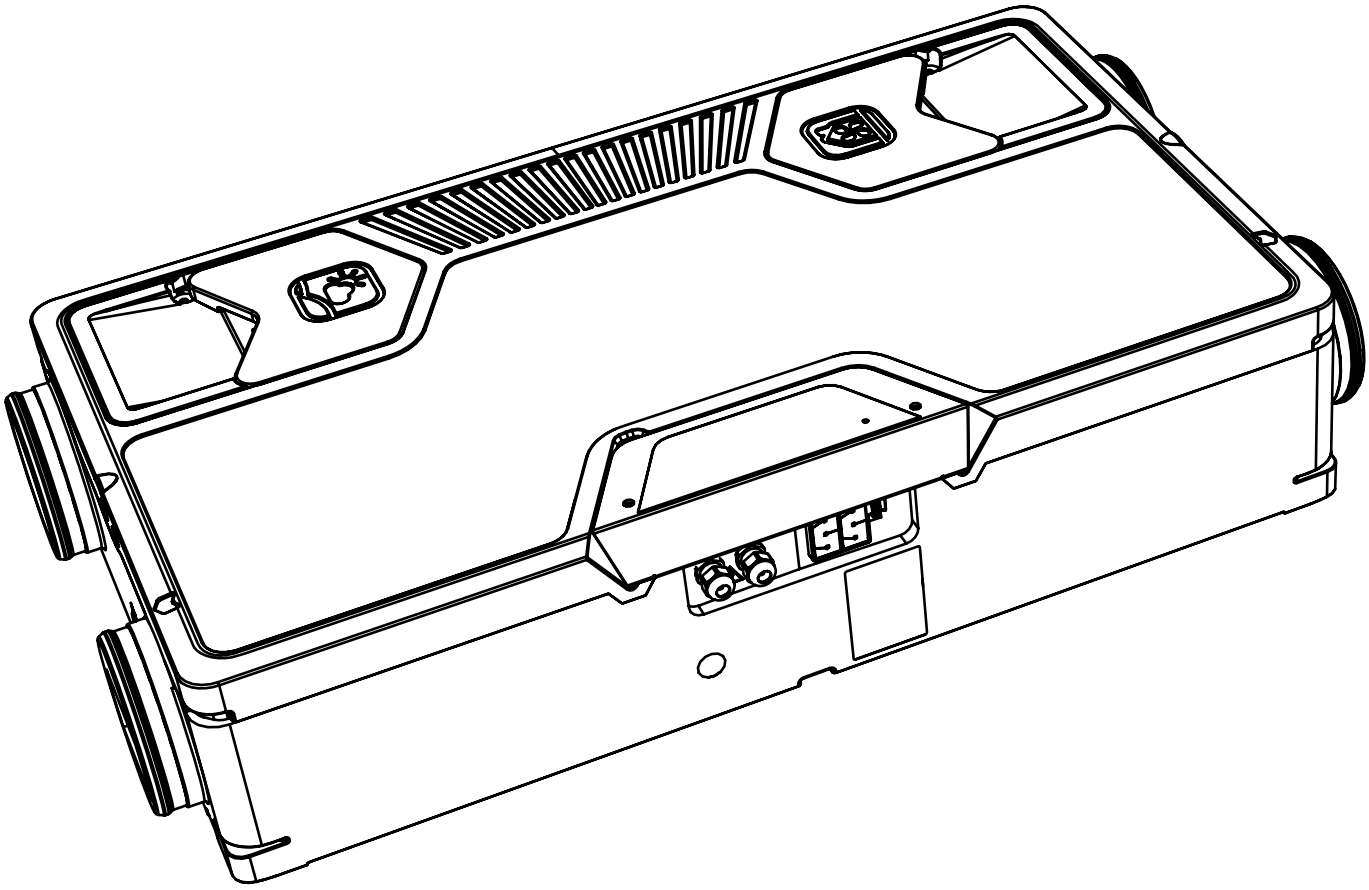
FR **Notice d'installation**
EN **Installation Instructions**
DE **Installationsanleitung**
NL **Montagehandleiding**
ES **Instrucciones de instalación**
IT **Manuale di installazione**
DA **Montagevejledning**
A文 **Other languages**



InspirAIR® Side

aldes

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1. FOREWORD

Thank you for choosing an ALDES product. We recommend that you read this document carefully and follow the instructions provided to ensure optimal operation of your equipment. Our liability as a manufacturer shall not be affected due to incorrect use of the equipment, lack of or unsuitable servicing or incorrect installation. To ensure continuous improvement in the quality of our devices, ALDES reserves the right to amend any device details published in this document at any time.

REMEMBER TO REGISTER

Register your InspirAIR® online to be sure of warranty coverage under the best possible conditions.
Note the serial number on the product, and then scan this QR Code and/or visit http://support.aldes.com

2. SAFETY INSTRUCTIONS

2.1. General instructions

Please read this document carefully before installing and activating the equipment. This document should be kept throughout the lifetime of the equipment.

Precautions and restrictions on use:

- This equipment is designed exclusively for domestic use, to provide air renewal in a dweling as part of a Mechanical Extract Ventilation system.
- Do not connect this device to a chimney outlet or to equipment such as motor-driven hoods, air conditioning, heating, clothes dryer, gas boiler or any other system that discharges air or dust.
- Do not draw in hot air at over 40°C, explosive vapours or air containing dust particles.
- Do not use the equipment in the presence of flammable substances or vapours such as alcohols, insecticides or petrol.
- The manufacturer cannot be held responsible and accepts no liability for any damage to persons or property resulting from inappropriate use.

Personal safety:

- This equipment is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or by persons lacking experience or knowledge, unless they have been given supervision or instruction concerning the use of the equipment by a person responsible for their safety. - Children should be supervised to ensure that they do not play with the equipment.

Precautions for installation and maintenance:

- The equipment must be installed in a room where the ambient temperature does not exceed 60°C. - Electrical connections must be made by a professional in accordance with the local standards in place. .
- In particular, a contact separation device with an opening distance of at least 3 mm on each pole, as well as a protective relay with a suitable current rating, must be installed in the fixed ducts (circuit breaker). The copper conductors must have a cross section of at least 1.5 mm².
- Before starting up, all the ductwork and the discharge must be connected.
- Ductwork should be secured using screwed collars, or the collars supplied with the product where applicable.
- Precautions must be taken to avoid the discharge of gases indoors from the exhaust flue of gas-operated or open-flame equipment.
- Switch off the power supply before any maintenance or cleaning operation and ensure that the box fan cannot be switched on accidentally.
- For equipment fitted with a power cable, do not use an extension lead, adapter or multiple-plug socket.
- Any damaged power lead must be replaced by the manufacturer, its after-sales service or similarly qualified persons to prevent a hazard.
- If the problem persists, contact your installer or dealer.
- Only use genuine replacement parts supplied by the manufacturer.

End of product life (WEEE):

In the event of a problem, please contact your installer or vendor. This product must not be disposed of with household waste. At the end of its life or when it is replaced, it must be deposited with a dealer or collection centre. ALDES belongs to the Ecosystem organisation (www.ecosystem.eco).

REACH regulation:

To the best of our knowledge, this item does not contain more than 0.1% of its weight of any substance on the ECHA candidate list.

Product certifications:

Certificates of product compliance with the standards in force are available from the manufacturer. If you have any installation or maintenance problems, please contact your installer or dealer.

2.2. Mechanical risks

Always connect the air ducts to the unit before plugging in the power supply. This ensures that it is impossible to touch the motors when the unit is in operation.

2.3. Electrical risks

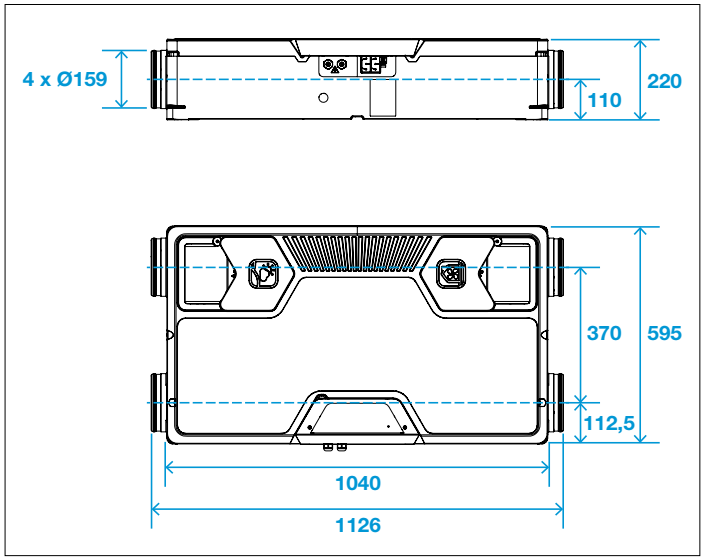
The equipment must not be switched on and left for the user to operate until all necessary electric accessories have not been connected by a skilled installer as described in the dedicated manuals..

3. GENERAL INFORMATION

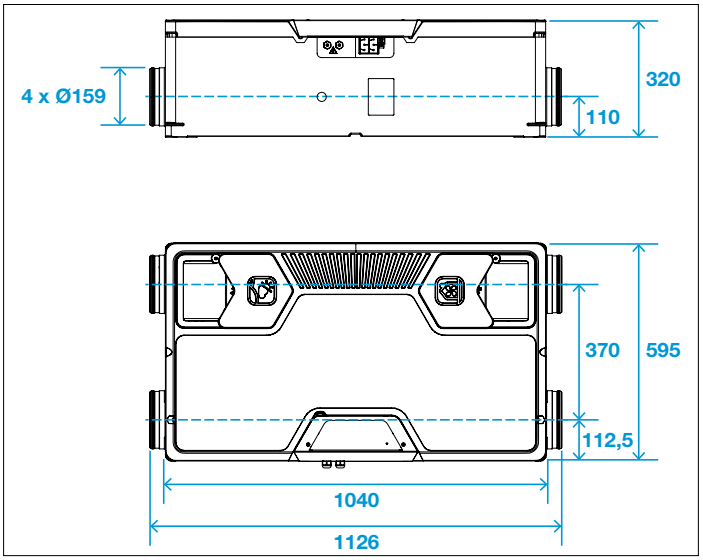
3.1. Product specifications

Weight & dimensions

Side 150 / 180 – Weight = 12 kg



Side 300 – Weight = 14 kg



	Electrical details					Ventilation applications		
Designation	**Power supply**	**Class**	**IP**	**Max. current**	**Max. power**	**Min. adjustable airflow**	**Max. adjustable airflow (max 150 Pa)**	**RPM adjustment range**
Side 150 Prima	230V +/- 10% 50/60 Hz +/- 10%	Class I	IP 22	0.7 A	60 W	40 m^3/h	150 m^3/h	20%-100%
Side 180 Classic (DHU)				1.2 A	135 W	40 m^3/h	180 m^3/h	20%-100%
Side 300 Classic (DHU)				1.8 A	240 W	60 m^3/h	300 m^3/h	20%-100%

List of accessories that can be connected to the unit

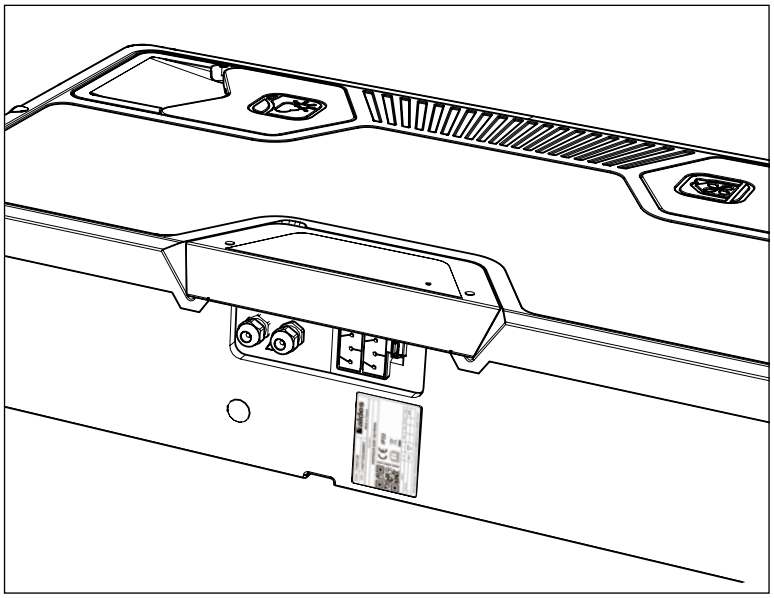
The InspirAIR® Side unit can operate with various accessories that can be connected to its electronic board:

Item	Designation	Control/supervision	Electrical power supply
11027068	INSPIRAIR V2 REMOTE CONTROL	Connected and powered by the unit - remote control connection (X4)	
11027069	INSPIRAIR V2 CO_2 REMOTE CONTROL	Connected and powered by the unit - remote control connection (X4)	
11023386	ALDES CONNECT BOX	Connected and powered by the unit - USB connection (X5)	
11026011	2-speed remote control Push button control	Connected and powered by the unit - Ibus connection (X6)	
11023225	Ext. pre-heating coil InspirAIR®	Control via IBus input	Separate power supply, 230V
11023487	Ext. post-heating coil InspirAIR®	Control via IBus input	Separate power supply, 230V
11023489	VEX40T FIRE-DAMPERS KIT (DK)	Control via IBus input	Separate power supply, 230V

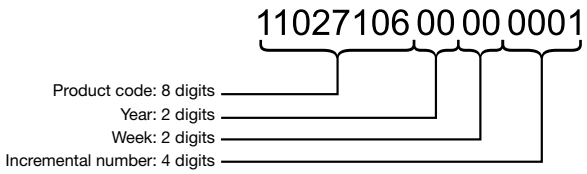
Identification plate

Each model has its own identification plate, stating its performance, certifications and labels. Here is a typical example:





Serial number



The product serial number can be found:
- on the box
- on the product (located under the electronic board case near the terminal block)
- via Aldes Configurator and in the remote control Information menu > Product ID

4. INSTALLATION INSTRUCTIONS

4.1. Transport/Unpacking

On receipt of the product, verify its condition and record any comments for the attention of the delivery company on the delivery slip. The delivery includes at least:
- The unit and a ceiling fastening system
- Documentation
- For "Kits": a siphon suitable for the unit and the appropriate InspirAIR® Side remote control

⚠ **Important:** the product packaging must be recycled by the installer.

The permissible storage and transport temperature is between -20°C and +60°C.

4.2. Product environment

The product and ductwork must be installed in a heated room to ensure optimum thermal performance and to prevent condensation forming in areas designed to drain properly.
Here are the consequences for the product and the ventilation network depending on the installation room type:

Type of room	Room temperature range over the year	Impact on unit operation
Heated, insulated room inside the dweling	+15°C – +25°C	**Optimum installation:** Guaranteed thermal performance Easy access for regular filter changes
Insulated attic/garage	+10°C – +35°C	**Satisfying installation:** Reduced thermal performance More restrictive access for regular filter changes
Uninsulated attic/garage	-10° – +50°C	**Correct installation:** Limited performance. More restrictive access for regular filter changes.

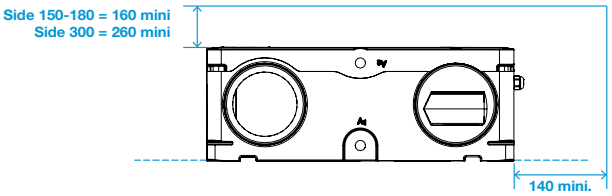
The system must not be placed in a room where there is a risk of explosion due to gas, fumes or dust. PPlease provide an adapted condensate drainage connection compatible with the siphon sold with the unit.

Installing the unit in areas with high humidity is not recommended. The electrical installation must be suitable for the maximum power of the unit (see point 3.1.).
The location and fastening must ensure at least a basic level of maintenance access

4.3. Installation plans

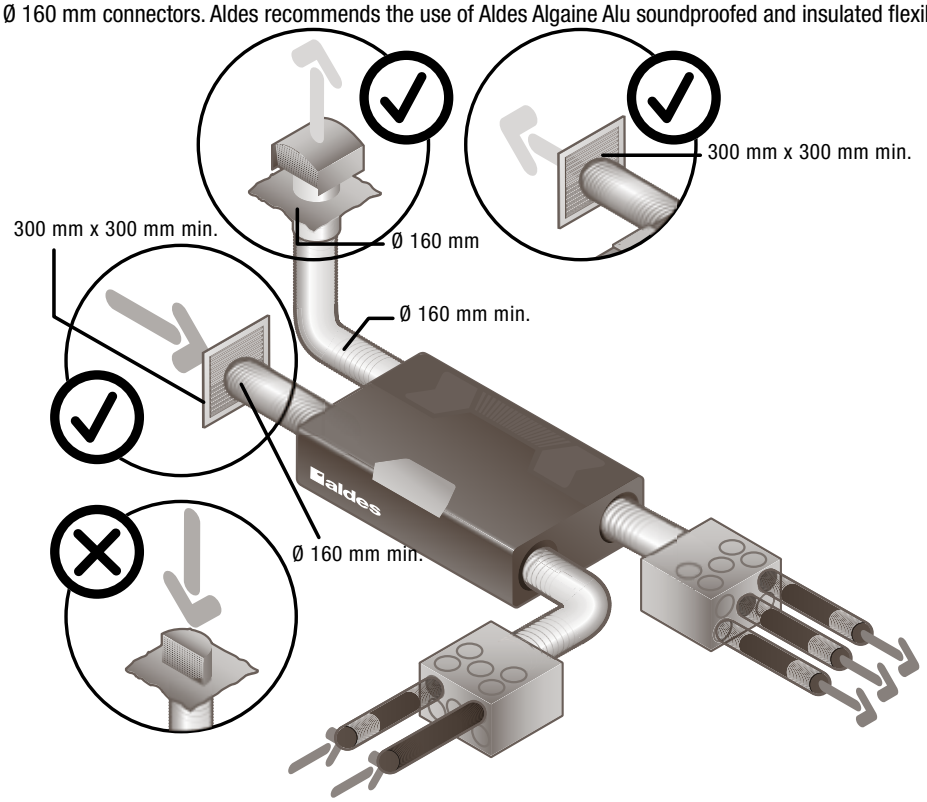
Ensure there is space around the installation as follows:

140 mm min. on the electrical connection side
160 mm min. above the cover for Side 150-180
260 mm min. above the cover for Side 30
If mounted in a suspended ceiling, an access hatch is required to ensure there is space above the cover.



4.4. Air connections

The unit is designed with 4 Ø 160 mm connectors. Aldes recommends the use of Aldes Algaine Alu soundproofed and insulated flexible ducts.



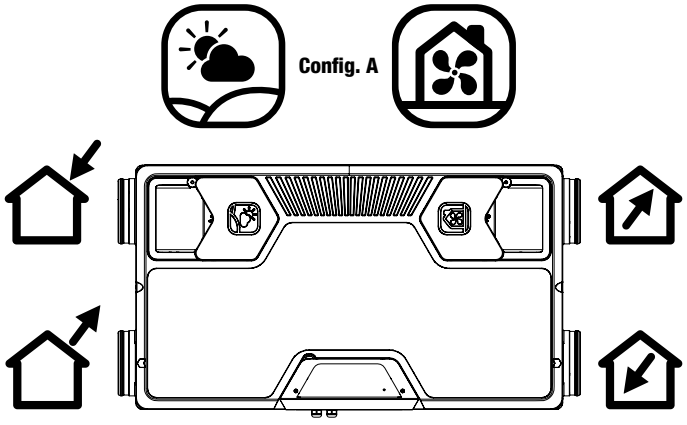
4.5. Recommendations for implementing networks

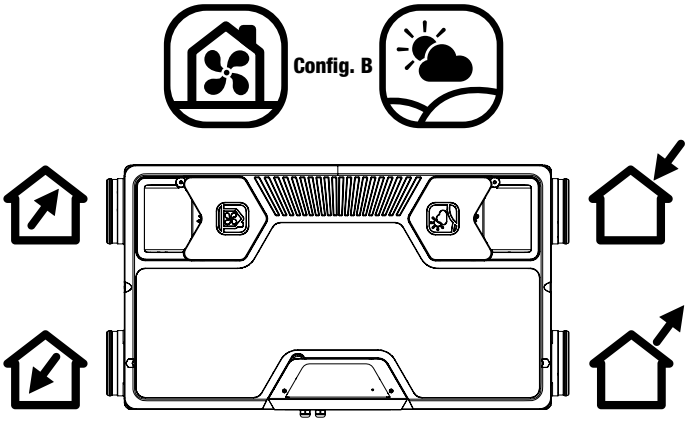
Before starting up your InspirAIR, make sure that all the components of the ventilation network are correctly installed and connected:
- the fresh air intake must be correctly connected via an insulated duct to a suitable grille (do not use fresh air intakes with insect screens)
- the ducts to the air supply and exhaust box fans must be insulated and correctly installed
- the supply and exhaust grilles must be properly connected
- exhaust airflow regulators must be installed and the right way round
- the air exhaust must be connected via an insulated duct to the outside via a suitable roof cowl.
- insulated flexible ducts must be tightly stretched, with large-radius bends if necessary
- unused connectors on the box fans must be sealed off properly
- the condensate connection must be fitted with a suitable siphon

4.6. Air flow direction

The installer can choose the flow direction of the machine during commissioning.

The product is supplied by default in configuration A.





To physically switch to configuration B:
- when commissioning, select configuration B
- physically invert the filters and filter plugs
- connect the condensate on the corresponding side

4.7. Electrical connections

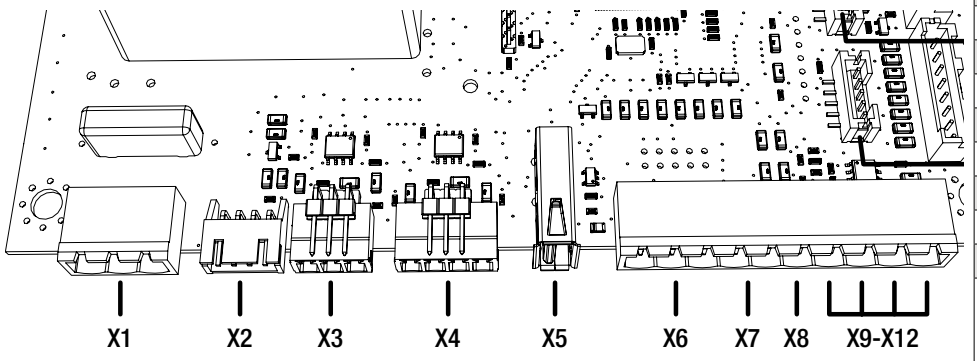
The unit is supplied pre-wired with 1.7 m of 3AWG18 cable. A 4th wire with fastone connector is included to ensure connection to the ground on the board. Aldes does not recommend changing the wire, but rather using a junction box and a second cable if the standard length is not sufficient.

Aldes recommends that the product (or its plug) has its own circuit breaker on the home's electrical panel.

For the InspirAIR® remote control, the cable to be used (not supplied) must be 4x0.22-0.5 mm^2. Maximum length: 20.0 meters. Marked connector are supplied on InspirAIR® Top board. The wiring diagram details the connections between the product and its accessories.

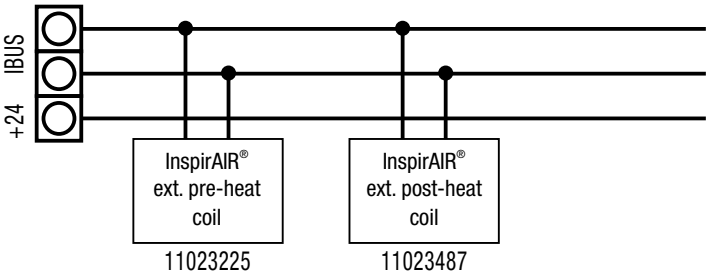
4.8. Electronic connections

View of the client connections on the electronic board:

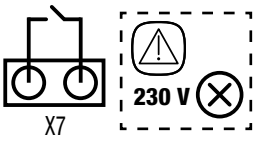


Marker	Function
X1	230V power supply
X2	Internal preheat relay control
X3	Modbus client connection
X4	Remote control connection
X5	USB connection
X6	IBus connection
X7	Push-button connection
X8	Dry contact/NO by default
X9-X12	0-10V inputs/outputs X9: Analogue input 0 X10: Analogue input 1 X11: Not functional X12: ⏚

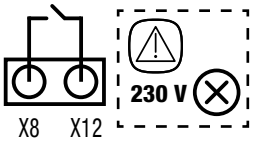
IBus connection:



Push-button connection:



Dry contact / NO by default:

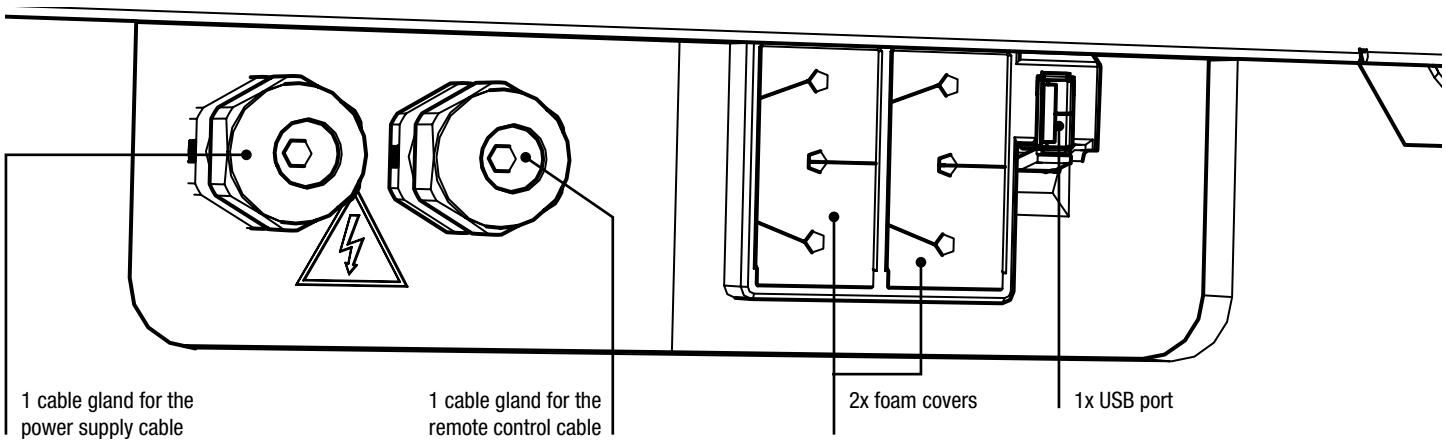


Using the USB port

A USB connection to the unit may be required to:
- connect the Aldes Connect Box
- download a product software update
- upload the product history

No other uses are possible

Case side view



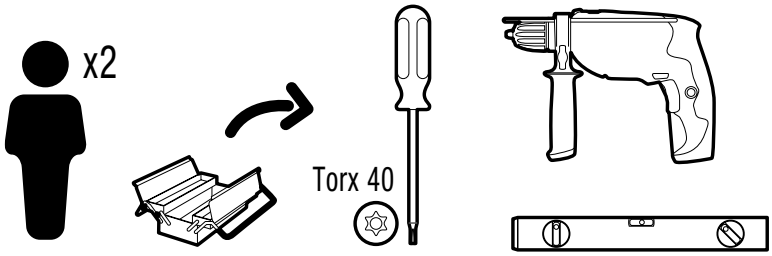
The foam covers allow the other cables (Modbus client, 0-10V and IBus inputs) to pass through

5. INSTALLATION

The product can be installed on the ceiling or the floor.

Caution: The condensate connection must be planned in advance to determine the best position and direction of flow for the product.

The fastening anchors must be suitable for the supporting wall and designed to withstand a load of 120 kg.



5.1. Ceiling installation

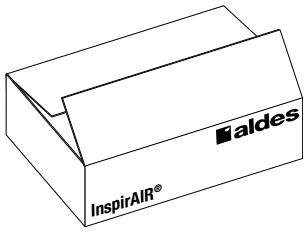
Possible by 1 person with the ceiling fixation accessory 11027073 - Kit quick fix InspirAIR® Side.

2 peoples recommended for the product installation with the standard strips delivered with the unit.

Assembly stage

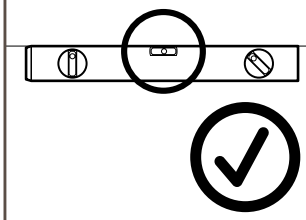
Ceiling mounting, basic system, 2 technicians recommended.

1.



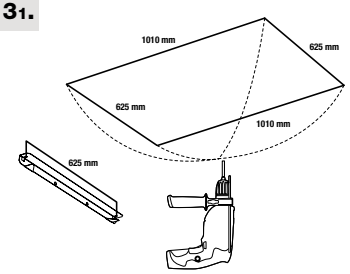
Unpack the product

2.



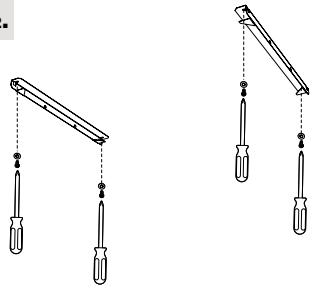
Check that the supporting surface is horizontal

3₁.



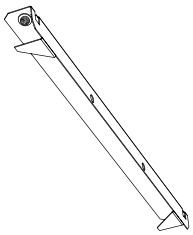
Drill the holes using the template

3₂.



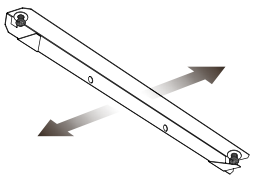
Install the fastening strips

3₃.



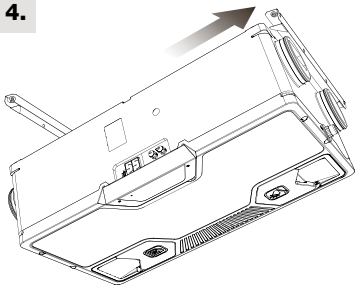
Tighten one strip completely in a fixed position, leaving the second one able to move

3₄.



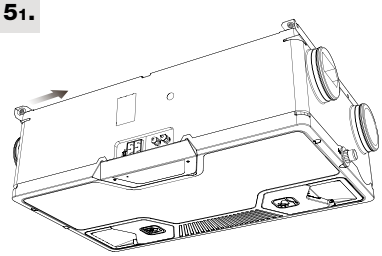
Slide the movable strip outwards

4.



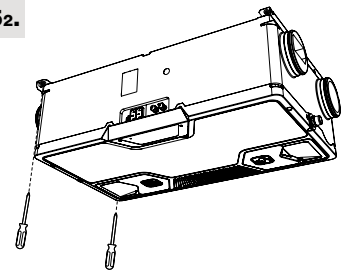
Engage the product in the fixed strip

5₁.



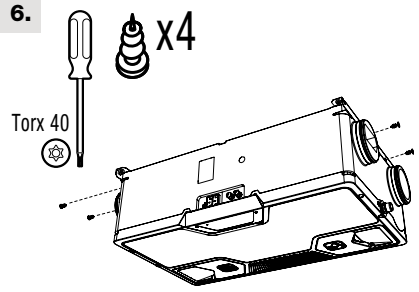
Slide the movable strip into position

5₂.



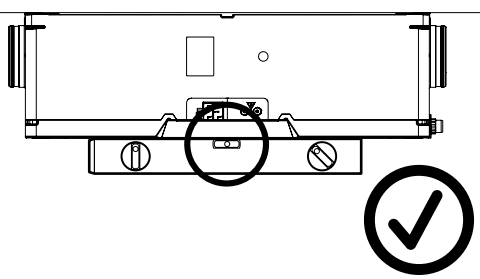
Make sure the strip is in the correct position and tighten the screws

6.



Fit the PPE screws on both sides

7.

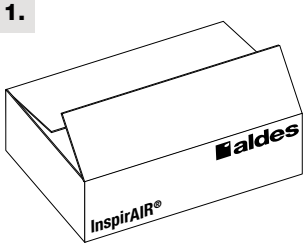


Make sure the product is level (adjust with washers if necessary)

Easy mounting kit available as an accessory under reference 11027073

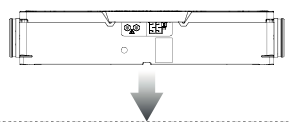
5.2. Floor installation

1.



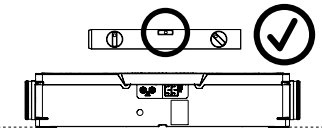
Unpack the product

2.



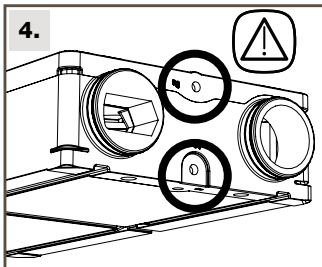
Place it on the floor

3.



Check that the unit is level

4.



Check that the condensate connections can be made

5.3. Condensate connection

Positioning the condensate drainage connection

The installer must choose the most suitable connection solution for the application and the airflow direction chosen (A or B):

⚠ **Important:** if you make a mistake when installing the screw connection, Aldes supplies a foam patch to plug the wrong hole from the outside.

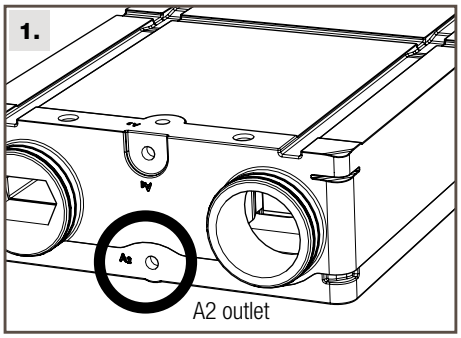
⚠ **Important:** Aldes recommends using the flat siphon supplied in the vertical position

Choosing the most suitable outlet

5.3.1. Config A

On the ceiling

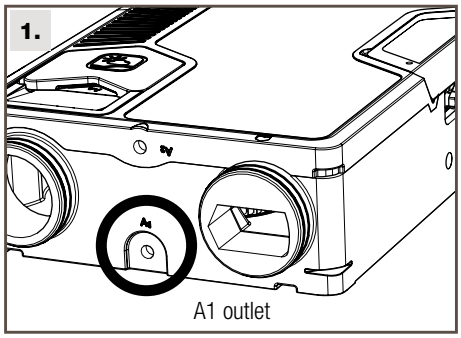
1.



A2 outlet

Directly on the floor

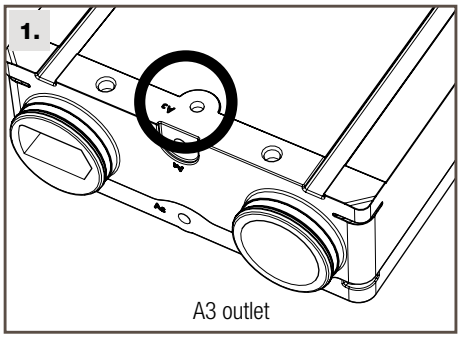
1.



A1 outlet

On the floor on a stand or other support

1.

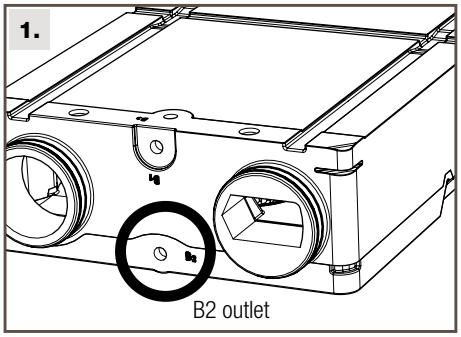


A3 outlet

5.3.2. Config B

On the ceiling

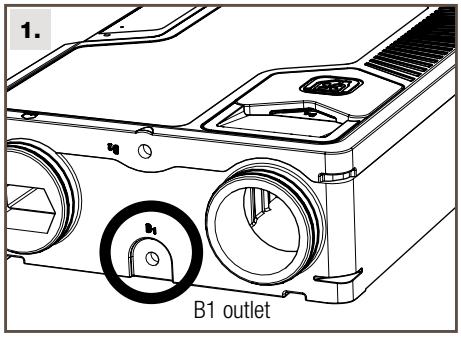
1.



B2 outlet

Directly on the floor

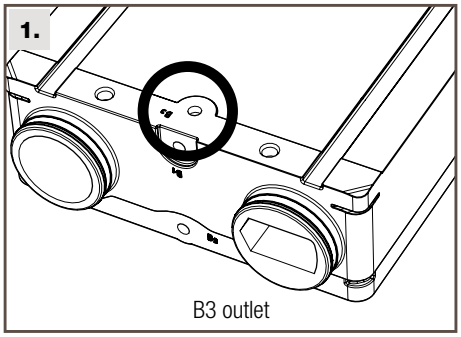
1.



B1 outlet

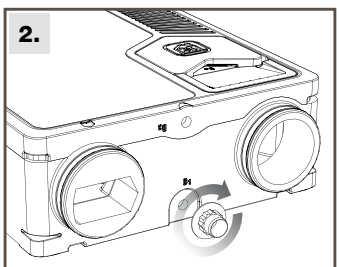
On the floor on a stand or other support

1.



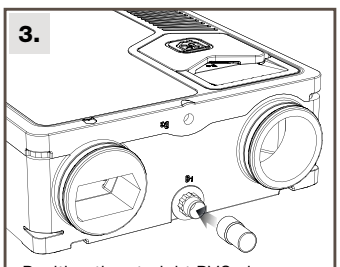
B3 outlet

2.



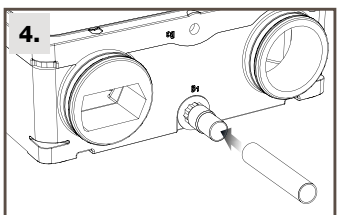
Screw in the connector until the seal is compressed

3.



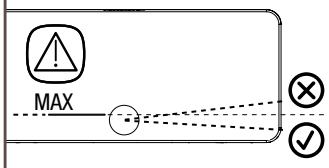
Position the straight PVC sleeve with the seal supplied with the siphon without gluing

4.

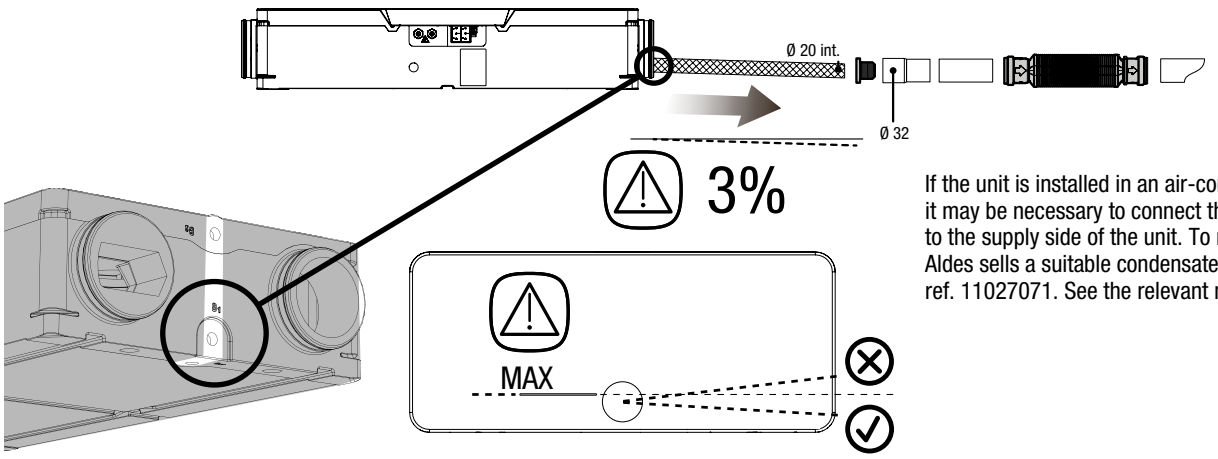


Connect the DN32 drain pipe. For ceiling mounting, use flexible ductwork so that the cover can be easily removed

5.



Ensure that the slope of the drain complies with local standards (3% minimum recommended)



If the unit is installed in an air-conditioned house, it may be necessary to connect the condensate drain to the supply side of the unit. To make this possible, Aldes sells a suitable condensate drainage kit ref. 11027071. See the relevant manual.

6. START-UP AND SETTINGS

6.1. Before starting the unit

When installation is complete, check that:
- The filters are fitted correctly.
- The unit is installed in accordance with the instructions.
- The equipment is correctly wired.
- Sound attenuators have been fitted to any ductwork requiring them
- All ductwork is adequately insulated and installed in accordance with local rules and regulations.

6.2. Start-up

Connect the unit's power cable or reconnect its circuit breaker. The product must be configured via one of these two interfaces:
- the Aldes InspirAIR® remote control, which includes a commissioning assistant for the first start-up.
- the Aldes Configurator software (for professionals only)

⚠ The unit's motors cannot be started until commissioning has been successfully completed.

6.3. Commissioning assistant

No.	Menu		Function
1	Language		Allows you to customise the remote control language for the user and the installer
2	Product profile		Allows the unit's behaviour to be adapted to the country where it is installed: 01(FR) -02(DK) -03(Others)
3	Orientation		Used to adjust the orientation of the unit
4	Config A	Config B	If the unit remains in A, no specific action is required. For B, follow these steps
5		Plugs and filters	Reverse the filters and plugs
6		Filters reversed	Confirm correct filter change
7	Condensate connection		Used to confirm that the condensate connection has been made (only for non-ERV units)
8	Control mode		Used to select the unit's control mode (see details on next page)
9	Flow assistant		Used to set the value of each ventilation level (L0- Holiday / L1- Daily / L2-Push-button - kitchen hood / L3-Boost)
10	Accessories assistant		Used to configure whether specific accessories are present. Optional menu

6.4. Menu structure of the InspirAIR® remote control

The INFORMATION menu can be accessed without a password. It is used to display the unit's key parameters without being able to modify them. It enables the installer to check the unit's settings and operation. The user can easily use it to communicate information remotely to the installer if the unit does not seem to be operating correctly, and to carry out an initial remote diagnosis.

Menu	Sub-menu	Contents
INFORMATION 	Settings	Displays the current settings without changing them: - control type - setting for each speed - post-heating temperature
	Filter timer	Displays but does not allow modifications: - the duration of the standard filter timer - the number of days remaining before the filter change warning
	Errors	Displays activated error codes if the remote control LED is on
	Product ID	Displays but does not allow modifications: - the item number of the unit - the associated serial number - the version of the unit and remote control software installed
	Accessories	Displays which accessory is connected to the unit and confirms that it is operating correctly: - CO_2 remote control > PPM value - preheating or post-heating coils - fire dampers - dry contact

The MY SETTINGS menu is dedicated to the user and can be accessed without a password. It can be used to adjust the ventilation on a daily basis and run simple actions.

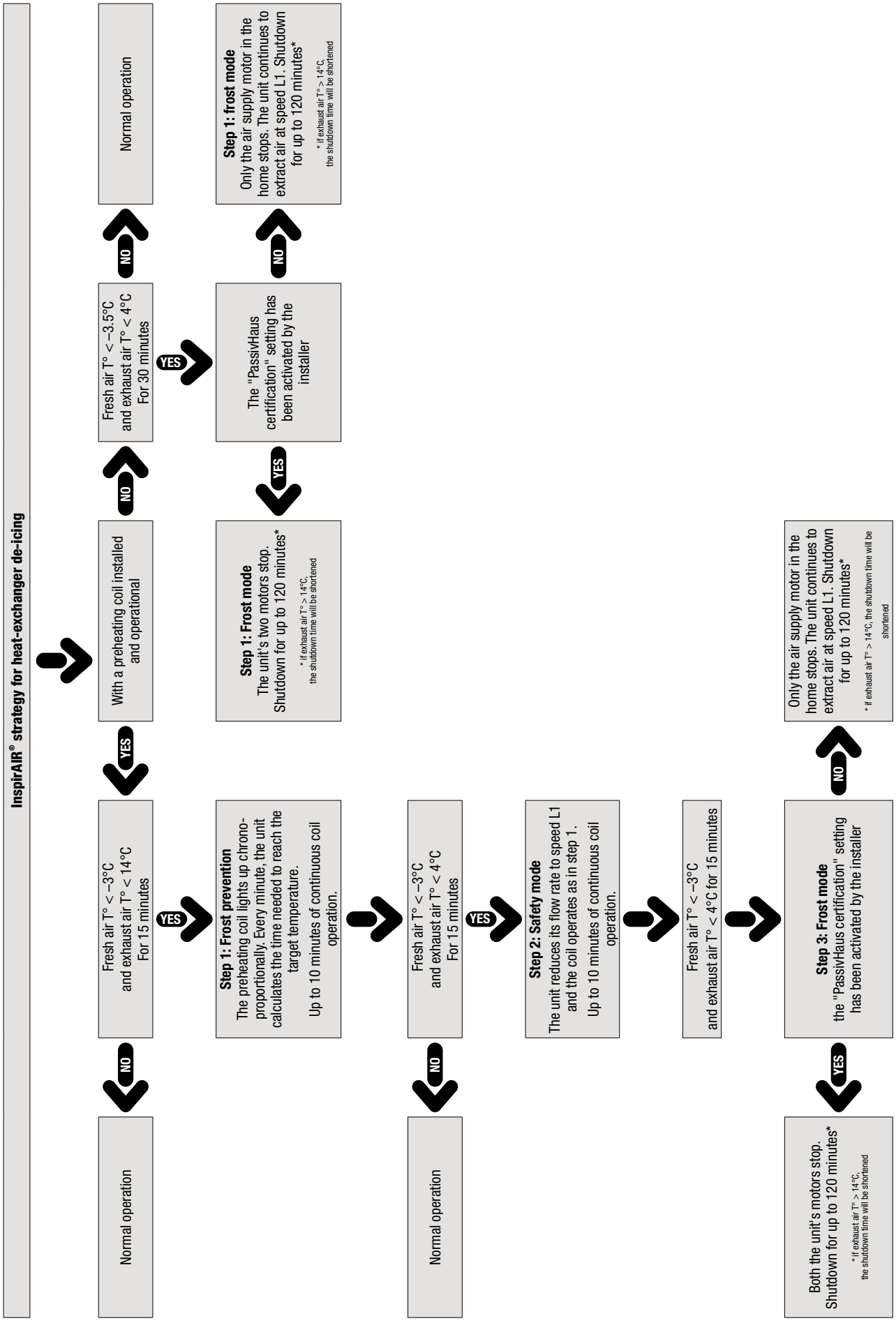
Menu	Sub-menu	Contents
MY SETTINGS 	Date and time	Sets the date and time if you are using weekly programming
	Light signal	Chooses the interval of the LED on the product and on the remote control: - change of colour according to air quality - interval in proportion to fan speed - off
	Filter timer	Chooses the duration of the timer filter based on the characteristics of the dweling, its location and the occupants' expectations. Possible values range from 6 to 12 months
	Weekly program	Runs a quick dweling ventilation program (see user guide)
	Sensors	Temporarily or permanently activates or deactivates indoor air quality sensing to automatically control ventilation
	Post-heating temperature	Sets the supply air temperature to between 16 and 23 degrees when an InspirAIR post-heating coil is connected
	Season	
	Bypass	Activates the bypass to limit heating of the supply air, in summer for example. The bypass will be deactivated after 4 months without any further action in this menu to ensure it does not remain active in winter
	Open fireplace	Activates the overpressure ventilation operation for 2 hours to make it easier to start a fire in an open fireplace.
	Languages	Chooses the language for the remote control

The INSTALLER menu is reserved for qualified installers and can be accessed using the password 0405. It provides access to all the unit's settings, accessories and operating and maintenance data.

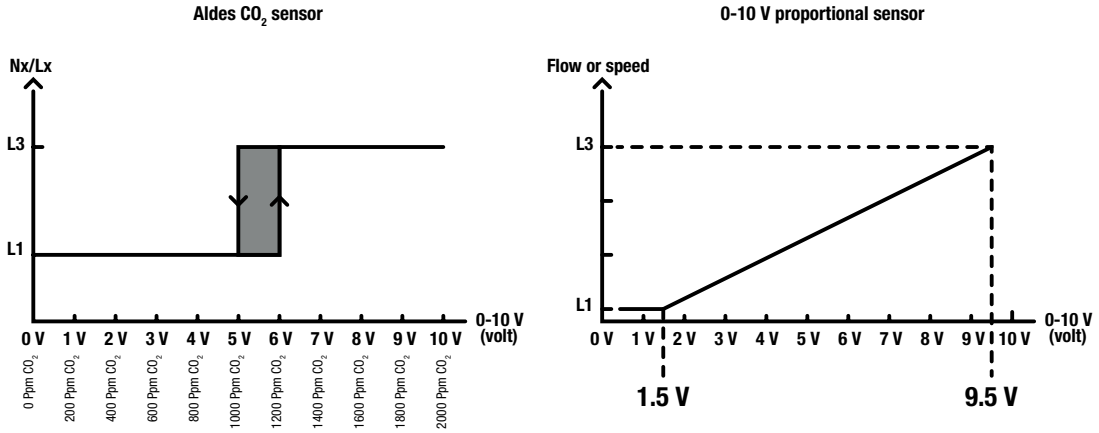
Menu	Sub-menu	Contents
INSTALLER 	**Ventilation settings**	
	Control mode	Selects the product control mode.
	Set level	Configures each of the 4 ventilation levels: L0- Holiday / L1- Daily / L2- Push-button / L3- Boost. This setting, available for countries outside France, is in m3/h, % or Pa depending on the control system
	Quick set-up FR	Launches a flow calculation assistant based on French regulation NF 205 Auto. Based on the characteristics of the dweling, the unit sets the flow rates for each ventilation level automatically. This assistant is not recommended for use outside France
	Time setting	Used to customise the operation times for speeds L0, L2 and L3.
	Quick adjustment	Allows the flow rates measured at the outlets to be corrected by up to 10%. This is only available for the "self-balanced" control mode and on speeds L1 and L2
	Other settings	
	Product profile	Allows the unit's behaviour to be adapted to the country where it is installed: 01(FR) -02(DK) -03(Others)
	Bypass settings	Used to set the trigger temperatures
	Radon mode	Allows rapid adjustment of a favourable imbalance of 15% between supply and exhaust, permanently and for all speeds, based on the recommendations on ventilation in the event of a risk that Radon may be present. This action can only be activated in constant flow control mode.
	Open fire	Enables the user to use the remote control menu to initiate an imbalance of +15% of supply air compared with extract air for 2 hours, the time it takes for an open fire to burn most efficiently.
	Filter timer	Allows the duration of the filter timer to be adjusted based on the characteristics of the dweling, its location or the occupants' expectations. Possible values range from 6 to 12 months.
	Certification	Specifies the type of dweling and whether it has PassivHaus certification. If so, the unit will adapt its defrosting strategy accordingly (no cut-out of the supply motor allowed). Aldes recommends the "Non PassivHaus" configuration if possible.
	Bypass	Allows the user to manually activate the unit's bypass. Aldes recommends not allowing this option, unless the installation is fitted with geothermal equipment (ground-coupled heat exchanger).
	Modbus	Used to customise the unit's communication settings (see 7.5): - slave address no. (between 1 and 99) - baud rate - parity
	Units	Allows you to customise the units: °C, m^3/h, etc.
	Accessories	
	Sensors	Used to set the parameters for the various 0-10V sensors (see diagram) and to activate or deactivate the humidity sensor if present.
	Heating coils	Used to declare pre-heating and post-heating coils
	Fire dampers	Allows you to set the number of dampers and their test frequency, as well as start a test
	Dry contact	Used to set the status of the unit's dry contact. Factory setting: NO (Normally Open). Other possible value: NC (Normally Closed).
	X7 settings	Selects the behaviour of the unit when input X7 is activated: 1) push-button = 30 minutes at L2 or 2) kitchen hood = L2 as long as the signal is active
	Maintenance	
	Restart commissioning	Used to restart the commissioning assistant, as for when the unit was first started up. This is not a factory reset, and the values already entered will still be available. To perform a factory reset, use the dedicated action.
	Factory reset	Used to restart the unit with its factory settings. The unit will have to be commissioned again.
	Actual values	Allows the various key values of the unit in operation (flow setpoints, motor voltages, sensor temperatures) to be examined in real time for quick maintenance diagnostics.

6.5. Unit behaviour

Frost protection strategy.



0-10V sensor control



Bypass operation

The InspirAIR® Side bypass is controlled 100% automatically by the unit based on the season recorded by the unit and the air temperatures inside and outside the dwelling. When bypass mode is activated, 2 shutters are activated to allow the flows not to cross in the exchanger, one flow passing in the lower half of the exchanger, while the other flow passes in the upper part. This innovative technical solution makes it possible to avoid preheating the air which will be blown into the dwelling.

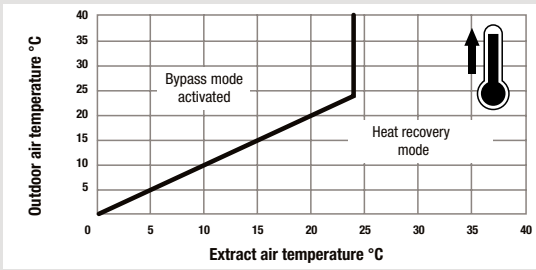
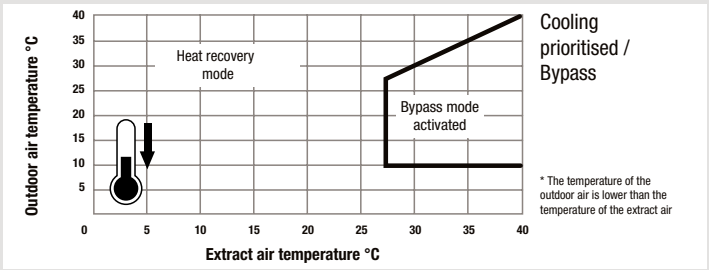
Season detection

The unit records the current season (summer or winter) by checking the outdoor air temperature every hour every day.

- If the average T° is > 19°C or if T max. is > 28°C and T min. > 7°, it is summer.
- If the average T° is < 19°C, or if the maximum T° is < 28°C, it is winter.

The season is recorded 24 hours after the unit is commissioned.

Depending on the season, the unit will give priority to heating the air in the heating element in winter and cooling in summer as follows:

Winter mode	Summer mode
Bypass activation at 24°C adjustable in the installer menu on the remote control	Bypass activation at 27°C adjustable in the installer menu on the remote control
	

Humidity control (DHU models)

The unit has a built-in relative humidity sensor on the flow of air extracted from the dweling. An increase in ventilation level L3 is triggered if the humidity value of this air suddenly rises (increase in the RH variance index of more than 8 points (not %). The humidity value is checked every minute. In constant airflow mode, the speed change will be gradual – over up to 5 minutes – so as not to disturb the end users in the house.

This accelerated ventilation level continues as long as the relative humidity value remains higher than the original value, or for a maximum time of 60 minutes. After this period, the equipment will return to the previous active speed (set manually, automatically or according to a weekly program).

If the humidity is still high after 60 minutes of boost, the boost is reactivated for a maximum of 60 more minutes, to reduce the RH. This function can be disabled on the remote control.

Manual bypass activation

Starting with software version 1.30, the InspirAIR® Side and Top will be compatible with the use of a ground-coupled heat exchanger on the outdoor air inlet to the unit.

If the installer activates the "Bypass" mode in the remote control installer menu, the dwelingowner will be able to confirm the current season on the remote control and the unit will bypass the exchanger in the summer.

6.6. InspirAIR® Modbus parameters and table

Communication baud rate	Data	Parity bit	Stop	Register type	Access codes	Type	Server address
9600*, 19200, 38400, 57600 115200	8 (fixed – cannot be changed)	**NONE***, ODD, EVEN	**1***, 2	Holding (4x)	03: "Read" register 16: "Write" register	RS485	2 as standard Customisable from 1 to 99 with Aldes Configurator

*Default value

The InspirAIR V2 remote control is essential to be able to adjust the Modbus parameters.
Use this QR code to find the complete Modbus table for interacting with our product:

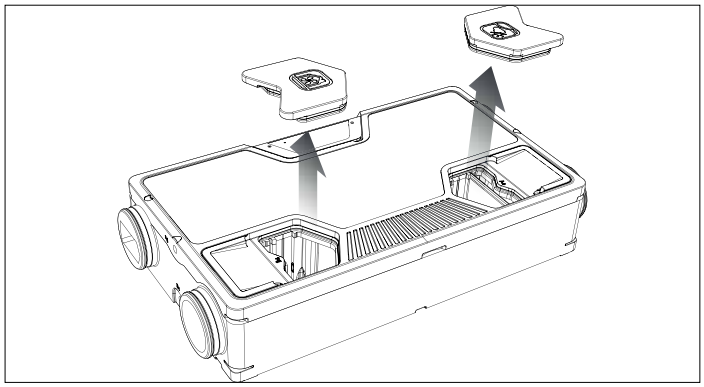
7. MAINTENANCE

Do not attempt to repair your equipment yourself.

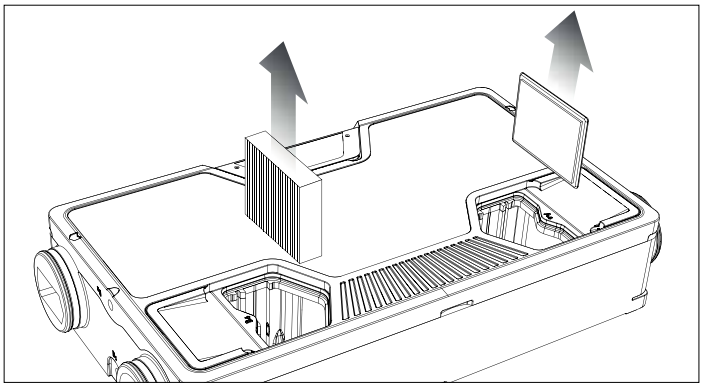
- This equipment contains no user-serviceable parts.
- Removing any of the covers may expose you to dangerous electrical voltages.
- Switching off the power supply is not enough to protect you from possible electric shocks (capacitors).
- Switch off the power supply if any abnormal noises, odours or smoke come from the equipment and contact your installer.
- Switch off the power supply to the equipment before cleaning.
- Do not use aggressive cleaning fluids or solvents to clean the equipment.
- Do not use a pressure washer to clean the grilles. You risk damaging the air exchanger and allowing water to enter the electrical circuits.

7.1. Filter maintenance – Action authorised for private individuals

Once every 6 months (adjustable between 6 and 12 months), the remote control warns the user to service the filter. Whether the operation actually needs to be performed depends on the indoor and outdoor ambient conditions. Clean the filters with a vacuum. Press the dedicated button for 1 second to reset the filter timer. Replace the filters every year.



Open the filter cover



Remove filters and replace with new ones

Original equipment filters

Here are the filters installed as original equipment in the various models of InspirAIR Top:

Model	Filter for supply air to dweling (side A)	Filter for extract air from the dweling (side B)
Side 150 Prima	"Dust" filter – Coarse 65% (ex-G4)	"Dust" filter – Coarse 65% (ex-G4)
Side 180 Classic	EPM10 50% "Particulate" filter (ex-M5)	"Dust" filter – Coarse 65% (ex-G4)
Side 300 Classic	EPM10 50% "Particulate" filter (ex-M5)	"Dust" filter – Coarse 65% (ex-G4)

Filter references

"Original equipment filter kits" are available to make it easier to buy replacement filters. For each existing InspirAIR Side model, they include 1x supply filter and 1x exhaust filter for the dweling:

Item	Designation	For supply to the dweling	For exhaust from the dweling
11027055	INSPIRAIR SIDE 150 PRIMA FILTER KIT	"Dust" filter – Coarse 65% (ex-G4)	"Dust" filter – Coarse 65% (ex-G4)
11027056	INSPIRAIR SIDE 180 CLASSIC FILTER KIT	EPM10 50% "Particulate" filter (ex-M5)	"Dust" filter – Coarse 65% (ex-G4)
11027058	INSPIRAIR SIDE 300 CLASSIC FILTER KIT	EPM10 50% "Particulate" filter (ex-M5)	"Dust" filter – Coarse 65% (ex-G4)

High-quality filters available as accessories

As the experts in indoor air quality, Aldes offers a range of filters with different levels of efficiency

	Item	Designation	Filtration level
Side 150-180	**11027060***	INSPIRAIR SIDE 150-180 Fine Particle Filter	ePM10 > 85% / ePM1 50%
	11027061*	INSPIRAIR SIDE 150-180 Bacteria Filter	ePM1 80%
	11027062*	INSPIRAIR SIDE 150-180 VOC Filter	ePM10 > 85% / ePM1 50%

Side 300	**11027064***	INSPIRAIR SIDE 300 Fine Particle Filter	ePM10 > 85% / ePM1 50%
	11027065*	INSPIRAIR SIDE 300 Bacteria Filter	ePM1 80%
	11027066*	INSPIRAIR SIDE 300 VOC Filter	ePM10 > 85% / ePM1 50%

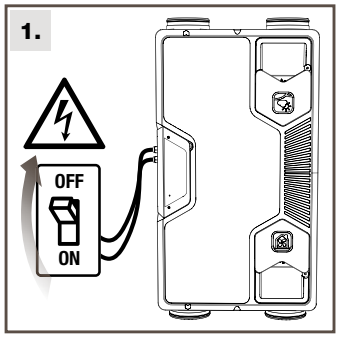
*In order to guarantee their lifespan, Aldes includes the filter in question, plus a dust "pre-filter" to be fitted above the main filter to extend its lifespan, in the following references.

7.2. Cleaning the exchanger – Action reserved for professionals

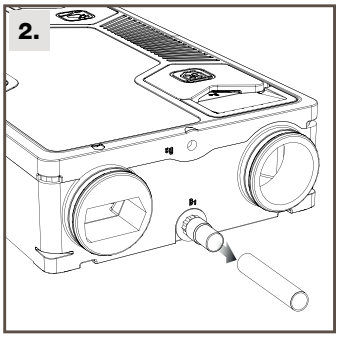
Clean the exchanger every 2 years with a vacuum. Whether the operation actually needs to be performed depends on the indoor and outdoor ambient conditions and the frequency of filter cleaning.

The exchanger does not need to be removed to clean it properly.

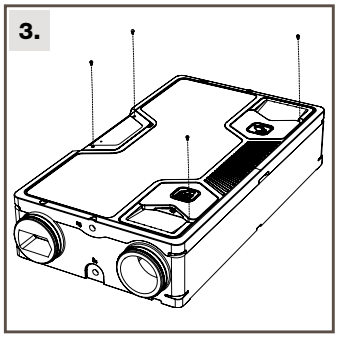
Estimated time required for this operation: less than 20 minutes.



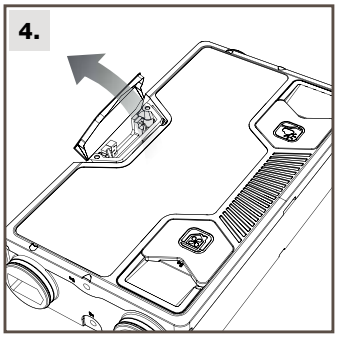
Disconnect the power supply to the product



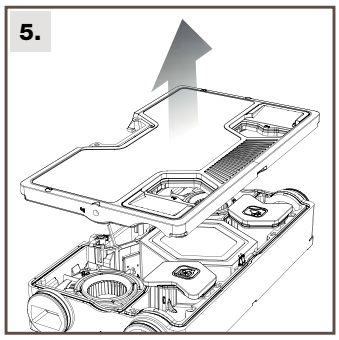
If installed in ceiling position > disconnect condensate



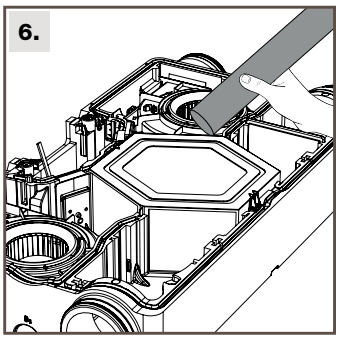
Unscrew the 4 screws holding the cover in place



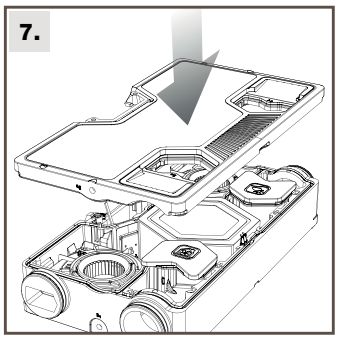
Open the electronic board case



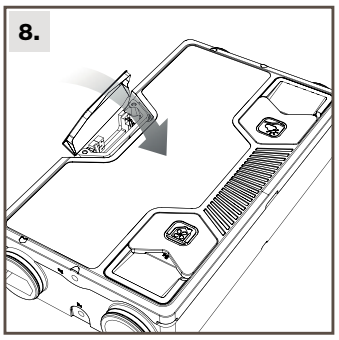
Remove the product cover



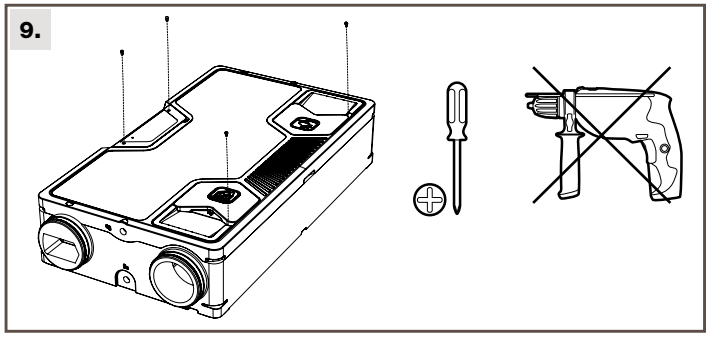
Clean the exchanger with a vacuum



Replace the cover, pressing firmly all the way round and then in the centre of the cover

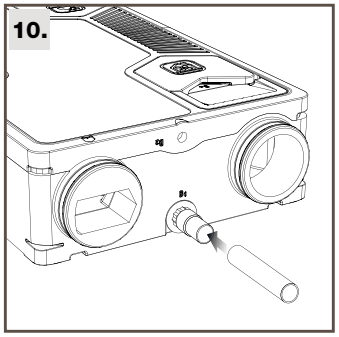


Close and screw in the electronic board case

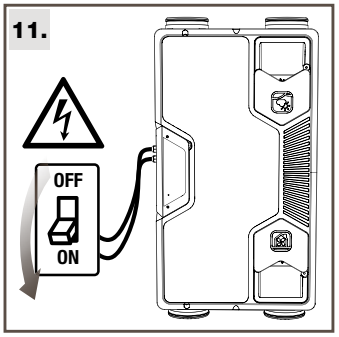


Tighten the 4 cover screws

Do not tighten these screws with a powered screwdriver.
A manual screwdriver is required to avoid damaging the product inserts.



Reconnect the condensate drain



Switch the unit back on

7.3. Other maintenance operations

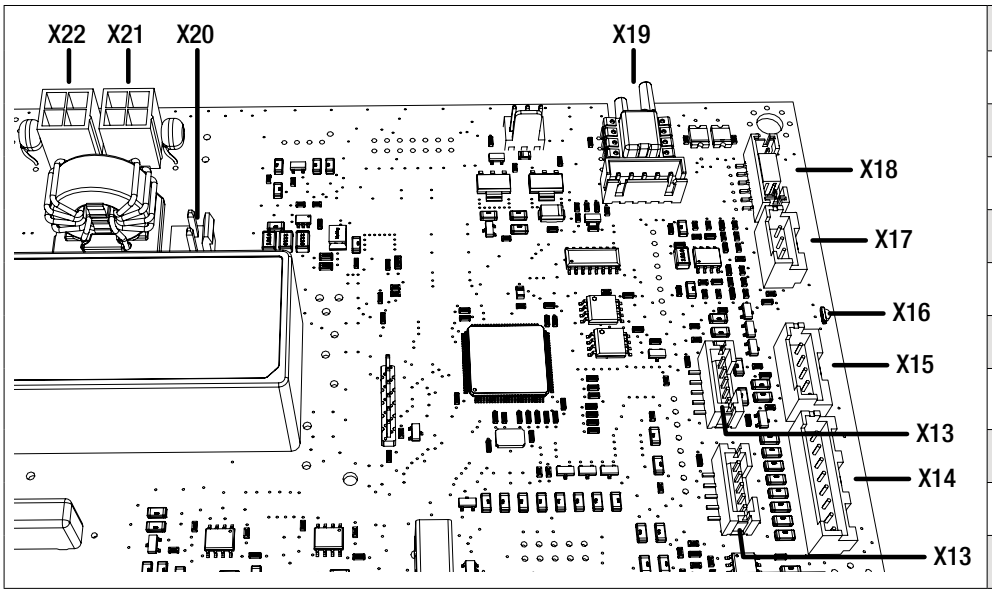
The Aldes document “Maintenance Guide” describes the following maintenance operations:
- changing the electronic board
- changing the motors
- changing the temperature sensors

7.4. Product malfunction

No.	Diagnosis	Remedy
49	Product ID missing	Enter the product ID
50	Product not configured	Check that the product has been configured (at least selecting the control mode and A/B)
70	Roof fan dry contact activated	Check the status of the dry contact
72	RH sensor fault	Check that its value is consistent with the product's other sensors
76	HMI CO2 sensor fault	Replace the remote control
81	No BCA detected	- Check the wiring of the BCA Bus port - Check that the resistance of the supply sensor is consistent (below)
83	BCA preheats ext – Resistor does not heat up	Check that the values of the relevant temperature sensors increase
85	BCA post-heating operation	Check that the installation is correct
90	Fire damper test NOK	Check that the fire damper test is OK
91	Fire damper activated	Check the status of the flap blade positions
182	Extract fan motor disconnected or motor out of order error	- Refer to the fault flowchart for alarm 182/183 (see after-sales service guide) - Switch off the power supply for 30 minutes, then switch it on again - Check the motor wiring
183	Supply fan motor disconnected or motor out of order error	
239	Air exhaust temp. sensor fault	- Check the sensor location - Check that the resistance of the sensor is consistent
240	Outdoor temp. sensor fault	
241	Air supply temp. sensor fault	
243	Tbca ext fault	
251	MEV temperature sensor	

All these error numbers disappear once the fault has been rectified. If you have any problems, please consult your dealer.

7.5. Detailed diagram of the electronic board



Marker	Function
X13	RH sensors
X14	Temperature sensors
X15	0-10V left motor control
X16	Light signal (LED)
X17	0-10V right motor control
X18	Bypass
X19	Pressure sensor (depending on version)
X20	Self
X21	Right motor power supply
X22	Left motor power supply

7.6. List of spare parts

Visit the Aldes website https://www.aldes.fr/documentations-services/pieces-de-rechange

8. WARRANTY

8.1. General terms and conditions

Please refer to the general terms and conditions of sale at www aldes.fr. The system must be installed by a qualified professional in compliance with best practices, the standards in force and the recommendations in our instructions. The system must be used normally and regularly serviced by a specialist.

8.2. Duration of warranty

The product comes with a 3-year parts warranty (excluding labour). The warranty takes effect from the date of purchase of the product, as shown on the invoice.

8.3. Warranty exclusions

This warranty does not cover any failure of the installation due to non-compliance with the manufacturer's recommendations, including the absence of a siphon, non-compliance with the standards and regulations in force, or lack of maintenance

9. ERP SHEET






Supplier brand	Aldes InspirAIR®			
Designation	Side 150 Prima	Side 180 Classic	Side 180 Classic DHU	Side 180 Classic ERV DHU
References	11027130	11027131 11027137	11027132	11027133
Energy class – Average climate	A	A	A	A
Average climate – SEC – Specific energy consumption (kWh/(m^2 year)	-36,94	-35,84	-38,80	-37,58
Cold climate – SEC – Specific energy consumption (kWh/(m^2 year)	-74,15	-73,06	-76,66	-75,44
Warm climate – SEC – Specific energy consumption (kWh/(m^2 year)	-12,98	-11,89	-14,48	-13,26
Declared type	RVU	RVU	RVU	RVU
Type of airflow	Bidirectional ventilation unit	Bidirectional ventilation unit	Bidirectional ventilation unit	Bidirectional ventilation unit
Type of motor installed or planned	4/ Variable speed	4/ Variable speed	4/ Variable speed	4/ Variable speed
Type of heat recovery system	Récupération	Récupération	Récupération	Récupération
Thermal output of heat recovery (%)	87	87	87	79
Maximum URV airflow (m^3/h)	150	180	180	180
Electric power absorbed at Qmax (W)	52	65	65	75
LwA - Acoustic power level (dB)	47,1	50,9	50,9	53,7
Reference airflow (m^3/s)	0,029	0,035	0,035	0,035
Difference in reference pressure (Pa)	50	50	50	50
SPI (W/(m^3/h))	0,23	0,26	0,26	0,32
Control factor (%)	1	1	0,85	0,85
Type of control system	Manual control	Manual control	Central demand control	Central demand control
Maximum declared internal leakage rate under negative pressure for BVU (%)	3,1	2,2	2,2	2,5
Maximum declared internal leakage rate under positive pressure for BVU (%)	3,3	2	2	2,3
Maximum declared external leakage rate under negative pressure for UVU and BVU (%)	4,3	3,3	3,3	2,8
Maximum declared external leakage rate under positive pressure for UVU and BVU (%)	4,5	4,5	4,5	4,6
Mixing rate for standalone heat recovery units without branch connections (%)	NA	NA	NA	NA
Position of visual alarm	cf. notice	cf. notice	cf. notice	cf. notice
Description of visual alarm	cf. notice	cf. notice	cf. notice	cf. notice
Regular replacement of filters to ensure unit performance and energy efficiency	cf. notice	cf. notice	cf. notice	cf. notice
Instructions for installation of fresh air inlets	NA	NA	NA	NA
Sensitivity of airflow to pressure variations at +20 Pa	NA	NA	NA	NA
Sensitivity of airflow to pressure variations at –20 Pa	NA	NA	NA	NA
Indoor/outdoor sealing (m^3/h)	NA	NA	NA	NA
Annual electricity consumption – AEC (kWh electricity/year)	304	348	257	305
Average climate – AHS – Annual heating saving (kWh primary energy/year)	4454	4454	4521	4521
Cold climate – AHS – Annual heating saving (kWh primary energy/year)	8714	8714	8845	8845
Warm climate – AHS – Annual heating saving (kWh primary energy/year)	2014	2014	2045	2045

			
Supplier brand	Aldes InspirAIR®		
Designation	Side 300 Classic	Side 300 Classic DHU	Side 300 Classic ERV DHU
References	11027134 11027138	11027135	11027136
Energy class – Average climate	A	A	A
Average climate – SEC – Specific energy consumption (kWh/(m² year)	-36,46	-39,25	-38,20
Cold climate – SEC – Specific energy consumption (kWh/(m² year)	-73,68	-77,10	-76,06
Warm climate – SEC – Specific energy consumption (kWh/(m² year)	-12,51	-14,93	-13,88
Declared type			
Type of airflow	Bidirectional ventilation unit	Bidirectional ventilation unit	Bidirectional ventilation unit
Type of motor installed or planned	4/ Variable speed	4/ Variable speed	4/ Variable speed
Type of heat recovery system	Récupération	Récupération	Récupération
Thermal output of heat recovery (%)	86	86	79
Maximum URV airflow (m³/h)	300	300	300
Electric power absorbed at Qmax (W)	135	135	160
LwA - Acoustic power level (dB)	51,2	51,2	53,1
Reference airflow (m³/s)	0,058	0,058	0,058
Difference in reference pressure (Pa)	50	50	50
SPI (W/(m³/h))	0,24	0,24	0,29
Control factor (%)	1	0,85	0,85
Type of control system	Manual control	Central demand control	Central demand control
Maximum declared internal leakage rate under negative pressure for BVU (%)	1,7	1,7	1,3
Maximum declared internal leakage rate under positive pressure for BVU (%)	1,7	1,7	1,2
Maximum declared external leakage rate under negative pressure for UVU and BVU (%)	2,1	2,1	1,5
Maximum declared external leakage rate under positive pressure for UVU and BVU (%)	2,4	2,4	1,5
Mixing rate for standalone heat recovery units without branch connections (%)	NA	NA	NA
Position of visual alarm	cf. notice	cf. notice	cf. notice
Description of visual alarm	cf. notice	cf. notice	cf. notice
Regular replacement of filters to ensure unit performance and energy efficiency	cf. notice	cf. notice	cf. notice
Instructions for installation of fresh air inlets	NA	NA	NA
Sensitivity of airflow to pressure variations at +20 Pa	NA	NA	NA
Sensitivity of airflow to pressure variations at –20 Pa	NA	NA	NA
Indoor/outdoor sealing (m³/h)	NA	NA	NA
Annual electricity consumption – AEC (kWh electricity/year)	323	239	280
Average climate – AHS – Annual heating saving (kWh primary energy/year)	4454	4521	4521
Cold climate – AHS – Annual heating saving (kWh primary energy/year)	8714	8845	8845
Warm climate – AHS – Annual heating saving (kWh primary energy/year)	2014	2045	2045

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Séparez les éléments avant de trier
Separate elements before sorting

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20, boulevard Irène Joliot-Curie
69694 Vénissieux Cedex - France