aspira

1. GENERAL

In order to ensure the "drainage" of moisture that is naturally created inside homes, the unit must run continuously at least at reduced speed (speed 1). If the ventilation unit is switched off, condensation may occur inside the unit and inside the building with possible moisture damage.
Commissioning of the unit and any changes to the factory settings may only be carried out by qualified personnel (authorised installer).

2. PANEL DESCRIPTION

The unit is fully manually controlled by the user via the wall-mounted touch control.
The remote control includes an air quality and humidity sensor for automatic air flow control.
Sensors interact to regulate air flow and ensure comfort in terms of humidity and indoor air quality of the room.
With WIFI control, it is possible to control the unit via a dedicated APP to monitor and set the status of sensors and machine operation from mobile devices locally and remotely via the cloud.

Humidity sensor   Air quality sensor   WIFI module (optional)

3. DIP SWITCH SETTINGS

At the top of the board are 4 dip switches for the various operating configurations of the unit.
It is essential to set the dip switches correctly; the indications for the various operating modes are repeated below.
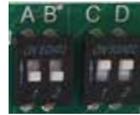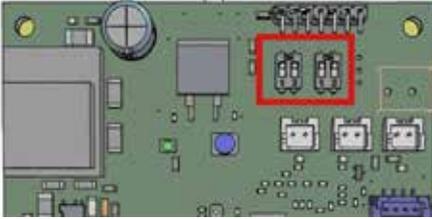
OFF OFF   ON ON
(default)

The combination of these Dip Switches decides the operation of the humidity and air quality sensors.

	ON OFF Room humidity control	OFF ON Room quality control
DIP SWITCH C-D	ON ON (default) Active room humidity and air quality controls The maximum of the two calculated values is used;	

4. OPERATION

The unit is fully manually controlled by the user via the wall-mounted touch control.
The remote control includes an air quality and humidity sensor for automatic air flow control.

Below are the buttons on the main screen:

	Switches the keyboard unit on / off		Summer/winter selection button
	Temperature set change button		Operation button Nominal speed and sensor
	Ventilation speed selection buttons: Silent / nominal / maximum		ALARM signalling

SWITCHING THE UNIT ON AND OFF

The unit can be enabled and disabled via the On / Off button on the display.

DISPLAYING HUMIDITY AND IAQ

A long press (3 sec) of the central fan button immediately shows the measured humidity.

Pressing the same button again for 3 seconds switches to the IAQ value.

Wait 10 seconds without pressing any buttons to automatically exit this menu and return to the main menu.

FAN SPEED MODIFICATION AND BOOSTER FUNCTION

The display contains buttons for selecting the desired speed of the unit. The actual fan speed change occurs after 1 second each time the speed is selected.

There are three selectable speeds: Night (minimum speed) / nominal (medium speed) / maximum (maximum speed).

Booster control, which becomes a priority above any speed, is managed via the digital contact.

NOMINAL SPEED FUNCTION - AUTO FUNCTION

When the auto button is pressed, the unit will operate according to the demand setting of the humidity and air quality sensors according to the dip switch settings made during start-up of the unit.

If the sensors are set the logics will be as follows:

Humidity sensor:
- In winter, the flow rate regulation increases as the humidity rises. In this way, the room humidity is controlled in order to have the correct humidity in the room.
- In summer, the regulation is reversed and the flow rate decreases as the indoor humidity increases; this is because in summer, the absolute humidity outside contributes to the increase in the relative humidity inside.

IAQ air quality sensor:
In both seasons, the unit detects the air quality index; this numerical value ranges from 0 (very good air quality) to 5 (very bad air quality). The sensor ranges are:
- 0 to 1.99: Excellent air quality
- 2 to 2.99: Good air quality
- 3 to 3.99: Average air quality;
  exposure to these values for more than 12 months is not recommended
- 4 to 4.99: Poor air quality;
  exposure to these values for more than 1 month is not recommended
- 5: Unacceptable air quality; Exposure to these values is not recommended

The recommended default setting value is 2.5.

Modification of this parameter is only available in the installer menu, accessible by authorised personnel.

SEASON CHANGE

The change of season must be made from the keyboard.

Press and hold the season change button for at least 3 seconds to change the season status.

This must be done in order to activate the correct logic: in winter the antifreeze function and in summer the bypass function.

Symbol logic: SUN - WINTER   SNOWFLAKE - SUMMER

KEY LOCK

Simultaneously pressing the + and - buttons for 3 seconds activates the local locking of all buttons, which is confirmed by the display of bL. All settings are inhibited to the user and bL appears when any button is pressed. Repeating the sequence will unlock the keys.

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CONTROL UNIT BRIGHTNESS ADJUSTMENT

With the panel switched off, press and hold the + button for 5 seconds until 01 appears. Use the - button to set the value to 00 and wait 20 seconds for verification of the correct setting.

TEMPERATURE SET POINT ADJUSTMENT FOR POST BATTERY CONTROL

The temperature set point is set by pressing the + and - buttons.

The panel always shows the detected temperature; when one of the two buttons next to it is pressed, the set temperature set point is immediately shown and it is possible to change the set temperature value.

AUTO AIR FLOW HUMIDITY SET POINT ADJUSTMENT

The humidity set point is set by long press (3sec) of the central fan button.

The panel immediately shows the humidity; by pressing the + and - buttons, it will be possible to change the Set humidity value.

Wait 10 seconds without pressing any buttons to automatically exit this menu and return to the main menu.

5   ALARMS

In case of any problems or failures, take note of any error code appearing on the electronic control unit or remote control screen, take note of the model and the serial number of the unit you possess (data provided on the identification plate attached on the side of the unit) and contact the installer.

5.1   PROBLEMS WITHOUT ANY INDICATION OF THE ERROR ON THE DISPLAY

PROBLEM	CAUSE	REMEDIES
The fans are not on	Power is not connected	Check for power supply on the fan
	The fan speed control device is not working	Check the fan speed control device
	Incorrect electrical connections	Check that the fan is not overheated and in thermal protection
	The fans are under thermal protection	
Insufficient air flow or useful pressure	Clogged filters	Clean the filters
	Insufficient rotation speed	Increase the rotation speed
	Clogged pipes or exchanger	Clean the pipes or exchanger
Insufficient exchanger efficiency	Clogged exchanger fins	Clean the exchanger surfaces
Excessive vibration and noise	Incorrect unit installation	Check the unit's brackets and fixings
	Incorrect pipe installation	Check pipe brackets and fixings
	Imbalance of fan impeller	Check the status of the fan impellers
Water leaking from the unit	Clogged condensate discharge	Clean the condensate discharge
	Incorrectly installed trap	Check whether the trap is installed correctly
Difficult start-up	Power supply voltage too low	Check that the power supply voltage is not below 10% of the rating plate's rated voltage
	Insufficient motor torque	Power the unit with the dampers partially closed so as to reduce the motor's starting torque. If it starts up correctly, replace the motor with a more powerful one.

6.2 ALARM SIGNALLING

A list of all alarms managed by the application follows.
The presence of an alarm has two display modes:
*   an error code on the control display;
*   a LED on the electronic board showing a flashing sequence with the type of alarm present.
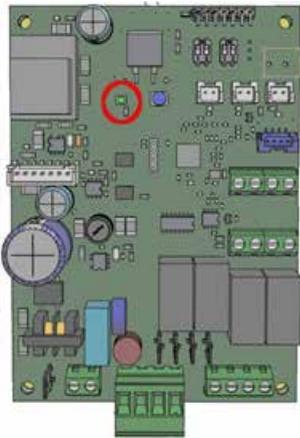
1 UNIT BOARD ALARM SIGNALLING LED

2 CONTROL UNIT ALARM SIGNALLING

6.3   DISPLAY ALARMS

Below is the table of unit malfunctions signalled by the remote display or by the flashing of the LED on the board.

CODE	DESCRIPTION	CAUSE	SOLUTION	BOARD FLASHES
E1	AIR recovery probe alarm	Probe breakage or failure to read	Check probe connection or replace probe	1 flash – off 3 seconds
	Fan alarm	Faulty fan connector or no feedback signal	Check the connection of the fan connector to the board Replace fan control cable	2 flashes – off 3 seconds
	Exhaust probe H2 alarm	Probe breakage or failure to read	Check probe connection or replace probe	3 flashes – off 3 seconds
	Outdoor air probe H4 alarm	Probe breakage or failure to read	Check probe connection or replace probe	5 flashes – off 3 seconds
	Connection with remote display alarm	Remote display connection error	Check electrical connections Check that A and B are not reversed Verify correct insertion of the display connection board on the main board	Led Off
	Remote display communication alarm	No communication between display and card for at least 300 seconds.	Check the status of the filter and press and hold the on-off button to reset the signal; Check that A and B are not reversed Verify correct insertion of the display connection board on the main board	6 flashes – off 3 seconds

7.   DISPOSAL

⚠ ATTENTION:
Important information for the environmentally sound disposal of the device.

The symbol of the crossed-out wheeled bin indicates that the products must be collected and disposed of separately from household waste at the end of its useful life.
The user must, therefore, either return the end-of-life equipment to the appropriate separate collection centres for electronic and electrotechnical waste or return it to the dealer when purchasing new equipment of an equivalent type, on a one-for-one basis. Appropriate separate collection for subsequent recycling, treatment and environmentally sound disposal of discarded equipment helps to avoid possible negative effects on the environment and health and promotes the recycling of materials from which the equipment is made. Illegal disposal of the product by the user entails application of the administrative sanctions set out in Legislative Decree No 22/1997" (Article 50 et seq. of Legislative Decree No 22/1997).

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