

User's manual
(Translation of original
instructions)

EN



N420928A - Rev.02 - 05/24

AirLeaf

EEB749 - EFB749 - EGB749
EEA649 - EEB649 - EFA649 - EFB649

ECA644 - ECA647 - EWF644 - EWF647
E4T643 - E2T543 - B3V137

First of all, we would like to thank you for having chosen a device of our production.

We are sure you will be happy with it because it represents the state of the art in the technology of home air conditioning.

By following the suggestions contained in this manual, the product you have purchased will operate without problems giving you optimum room temperatures with minimum energy costs.

INNOVA S.r.l.

Conformity

Refer to the Installation Manual of the paired unit.

Markings



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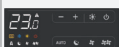
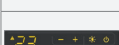
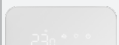
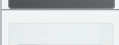
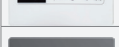
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CODING

1.1 Coding accessories

	Accessory description	Combinable products	Code
Controls on the appliance			
Control panels			
	SMART TOUCH on-board electronic control with continuously modulating thermostat. Integrated WiFi module	SL 4 pipes	EWF647II (1)
	SMART TOUCH on-board electronic control with continuously modulating thermostat. Integrated WiFi module	RS SLS SL	EWF644II (1)
	SMART TOUCH on-board electronic control with continuously modulating thermostat	SL 4 pipes	ECA647II (1)
	SMART TOUCH on-board electronic control with continuously modulating thermostat	RS SLS SL	ECA644II (1)
	SMART TOUCH on-board electronic control with 4 fixed speeds and thermostat	RS SLS SL	E4T643II (1)
	On-board electronic control with 4 fixed speeds and thermostat	SLS SL	E2T543II (1)
Speed selector			
	On-board speed selector. For connection with standard single-contact wall thermostats	SLS SL	B3V137II (1)
Wall-mounted control panels M7 series			
Control panels			
	LED electronic control panel with touch interface, wall-mounted complete with thermostat and room temperature and relative humidity probe. Bluetooth connection. Colour white	All	EGB749II
	LED electronic control panel with touch interface, wall-mounted complete with thermostat and room temperature and relative humidity probe with integrated WiFi module, InnovAPP. Cable connection. Colour white	All	EFB749II
	LED electronic control panel with touch interface, wall-mounted complete with thermostat and room temperature and relative humidity probe. Cable connection. Colour white	All	EEB749II
Wall mounted controls smart touch series			
Control panels			
	SMART TOUCH wall mounted control panel with thermostat and room temperature and relative humidity probe with integrated WiFi module, InnovAPP. Colour black	All	EFA649II (2)
	SMART TOUCH wall mounted control panel with thermostat and room temperature and relative humidity probe with integrated WiFi module, InnovAPP. Colour white	All	EFB649II (2)
	SMART TOUCH wall mounted control panel with thermostat and room temperature and relative humidity probe. Colour black	All	EEA649II

- Accessories can be installed and tested at the factory
- The control panel is connected to the device via cable. The WiFi antenna allows remote management via app.

	Accessory description	Combinable products	Code
	SMART TOUCH wall mounted control panel with thermostat and room temperature and relative humidity probe. Colour white	All	EEB649II

1. Accessories can be installed and tested at the factory
2. The control panel is connected to the device via cable. The WiFi antenna allows remote management via app.

GENERAL INFORMATION

2.1 About the manual

This manual was written to provide all the explanations for the correct management of the appliance.

 This instruction manual forms an integral part of the device and therefore must be carefully preserved and must ALWAYS travel with it, even if you transfer the device to another owner or relocate it to other premises. If the manual gets damaged or lost, download a copy from the website.

 Read this manual carefully before proceeding with any operation and follow the instructions in the individual chapters.

 The manufacturer is not responsible for damages to persons or property caused by failure to follow the instructions in this manual.

 This document is restricted in use to the terms of the law and may not be copied or transferred to third parties without the express authorization of the manufacturer.

2.1.1 Editorial pictograms

The pictograms in the next chapter provide the necessary information for correct, safe use of the machine in a rapid, unmistakable way.

Related to security

High risk warning (bold text)

- The operation described above presents a risk of serious physical injury, fatality, major damage to the appliance and/or to the environment if not carried out in compliance with safety regulations.

Low risk warning (plain text)

- The operation described above presents a risk of minor physical injury or minor damage to the appliance and/or to the environment if not carried out in compliance with safety regulations.

Prohibition (plain text)

- Refers to prohibited actions.

Important information (bold text)

- This indicates important information that must be taken into account during the operations.

In the texts

- ▶ procedures
- lists

In the control panels

- ▶ actions required
- Expected responses following an action.*

In the figures

1 The numbers indicate the individual components.

A The capital letters indicate component assemblies.

 The white numbers in black marks indicate a series of actions to be carried out in sequence.

 The black letter in white identifies an image when there are several images in the same figure.

2.1.2 Pictograms on the product

Symbols are used in some parts of the appliance:

Related to security



Caution: electrical danger

- The concerned personnel is informed to the presence of electricity and the risk of suffering an electric shock.

2.1.3 Recipients

User

Non-expert person capable of operating the product in safe conditions for people, for the product itself and the environment, interpreting an elementary diagnostic of faults and abnormal operating conditions, carrying out simple adjustment, checking and maintenance operations.

Installer

Expert person qualified to position and connect (hydraulically, electrically, etc.) the unit to the plant; this person is responsible for handling and correct installation according to the instructions provided in this manual and the national standards currently in force.

Technical Service Centre

Expert and qualified person authorised directly by the manufacturer to carry out all routine and supplementary maintenance operations, as well as every adjustment, check, repair and replacement of parts necessary during the life of the unit itself.

2.1.4 Manual organisation

The manual is divided into sections each dedicated to one or more target groups.

Coding

It addresses all recipients.

It contains the list of products and/or accessories referred to in the manual.

General information

It addresses all recipients.

It contains general information and important warnings that should be known before installing and using the appliance.

Control panels

It addresses all recipients.

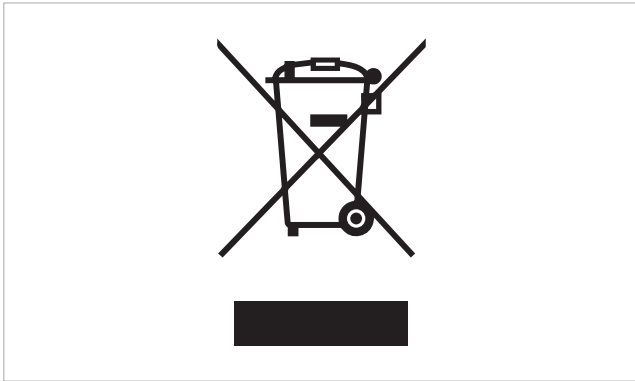
It contains section by control mode and information on the use of the main functions.

Maintenance and Troubleshooting

It addresses all recipients.

It contains specific warnings and useful information for regular maintenance work.

2.2 Disposal



The symbol on the product or its packaging indicates that the product must not be treated as normal household

waste, but must be taken to the appropriate collection point for the recycling of electrical and electronic equipment.

Proper disposal of this product avoids harm to humans and the environment and promotes the reuse of valuable raw materials.

For more detailed information about the recycling of this product, contact your local city office, your household waste disposal service or the shop where you purchased the product.

Illegal disposal of the product by the user involves the application of the administrative sanctions provided for by the regulations in force.

This provision is only valid in the EU Member States.

2.3 General warnings

- ⚠ This instruction is an integral part of the booklet of the appliance.
- ⚠ The manufacturer reserves the right to make changes to its models at any time to improve its product, without prejudice to the essential characteristics described in this manual. The manufacturer is not obliged to add such modifications to machines previously manufactured, already delivered or under construction.
- ⚠ All repair or maintenance interventions must be performed by the technical service department or by professionally qualified personnel as foreseen in this booklet. Do not modify or intervene on the appliance as this could create dangerous situations and the manufacturer will not be responsible for any damage caused.
- ⚠ Objects or structural obstacles (furniture, curtains, plants, leaves, blinds, etc.) must not obstruct the normal air flow both from the internal and from the external grids.
- ⚠ Do not put any containers on top of the appliance, especially if they contain liquids, as this could cause a short circuit or cause damage to the appliance and/or be exposed to danger of electrocution.
- ⚠ Do not lean on the appliance.
- ⚠ In the event of water leaks, turn off the appliance and disconnect the electric power supply. Call the Technical Service Centre.
- ⚠ In case of replacement of parts, use only original parts.

M7 SERIES CONTROLS EEB749 - EFB749 - EGB749

3.1 Interface

3.1.1 Description

M7 series LED electronic control panels with touch interface for wall installation allow:

- room temperature control
- management of the main functions of the device
- temperature and humidity measurement
- fan speed regulation

They are fitted with:

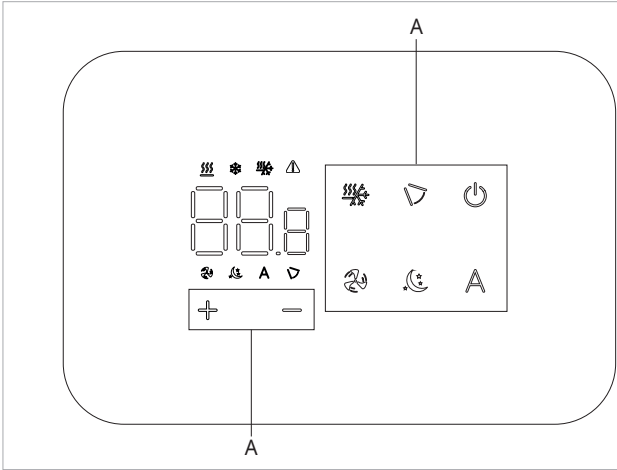
- internal memory with data saving even in case of shut-down or power outage

⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display. The maximum brightness is restored to the pressure of any key.

⚠ For wall control code EFB749, the app is available.

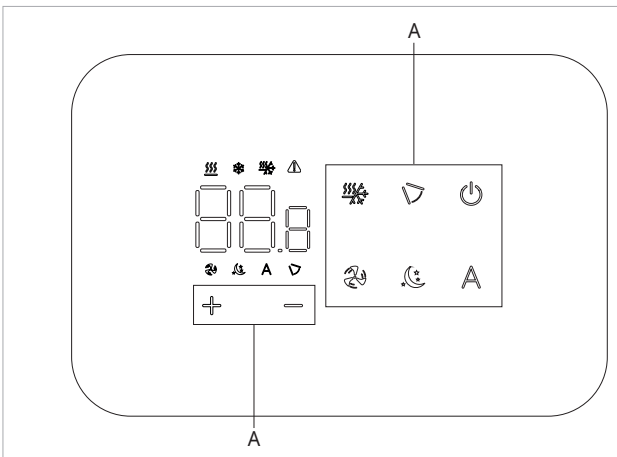
3.1.2 Display

Statuses and active alarms on display.



A	Display area
88.8	Setpoint
+	Temperature value increase function
-	Temperature value decrease function
⏻	Power / Standby
⚠	Alarm signals
🔄	Flap control function
🌀	Maximum mode
🔥❄	Heating / Cooling
❄	Cooling
🔥	Heating
⏻	Auto Mode
🌀	Minimum mode

3.1.3 Keys functions



A	Keys area
+	Increases the temperature value
-	Decreases the temperature value
⏻	This can be used to switch the unit on or off
🔄	Allows flap management
🌀	Allows the maximum ventilation speed function to be activated
🔥❄	This can be used to select the operating mode (Cooling or Heating)
⏻	Enables automatic mode
🌀	Allows activation of the minimum mode function with ventilation speed limitation

3.2 Main functions

3.2.1 General start-up

Before the activation:

- ⚠ Make sure that the remote control is connected to the mains.
- ⚠ In case of a master switch on the power supply line, switch on the system by inserting the switch.

To activate the control

- ▶ press the  key for about 2 seconds
The text  appearing on the display.
The device turns on.

3.2.2 Put in stand-by the control

To put in stand-by the control

- ▶ press the  key for about 2 seconds
The symbol  appears
The control goes out.

- ⚠ In stand-by mode the control ensures an antifreeze safety. In case of temperature <5 °C, the hot water solenoid valve outputs and boiler consent are activated automatically.

3.2.3 Set room temperature

To set-up the temperature

- ▶ operate the   keys to decrease or increase the desired value
The displayed value change.

- ⚠ The adjustment range goes from 16 °C to 28 °C, with a resolution of 0,5 °C.
- ⚠ Out of range values from 5 °C and 40 °C are allowed, except in automatic mode. These value should be set only for short periods of time.

3.2.4 Automatic season operation (Heating/Cooling)

- ⚠ Function only available for 4-pipe versions.

To access the automatic season

- ▶ press the  key for 10 seconds
The symbol  on indicates the automatic function enable.
At the same time, one of the two symbols  or  lights up to indicate the current operating mode.

- ⚠ In heating function the symbols is alight with setpoint higher than the room temperature.
- ⚠ In cooling function the symbols is alight with setpoint lower than the room temperature.
- ⚠ In the case of an incorrect setpoint, the symbol of the activated function flashes and ventilation stops until the appropriate value is reached.
- ⚠ After 15 minutes the symbol  or  flashes, error E6 appears on the display.

- ⚠ Please refer to chapter "Alarm display on wall control panel" [p. 14](#) for the list of errors shown on the display.

3.2.5 Cooling only mode

To select the Cooling operation

- ▶ press the  key for about 2 seconds
The symbol  on indicate the Cooling function enable.
The device dehumidifies and cools the room.

- ⚠ In cooling function the symbols is alight with setpoint lower than the room temperature.

3.2.6 Heating only mode

To select the Heating operation

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Heating function enable.
The device heats the room.

- ⚠ In heating function the symbols is alight with setpoint higher than the room temperature.

3.2.7 Automatic operation

To select the Automatic function

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Automatic function enable.

- ⚠ The ventilation speed is automatically adjusted between a minimum value and a maximum value based on an algorithm type PI, according to the actual distance from the room temperature set-point.

3.2.8 Minimum mode operation

To select minimum mode operation

- ▶ press the  key for about 2 seconds
The symbol  on indicates that fan operation in minimum mode.

- ⚠ In this mode the fan is set to minimum speed.

3.2.9 Maximum ventilation speed

To select the operation at the maximum ventilation speed

- ▶ press the  key for about 2 seconds
The symbol  on indicates the maximum speed function enable

- ⚠ Maximum power output is immediately obtained both in heating and cooling.
- ⚠ After reaching the desired room temperature, select a different function to increase the thermal and acoustic comfort.

3.2.10 Set the key lock

To set-up the key locking

- ▶ press both keys   for 3 seconds
The text  appearing on the display.

 All settings are inhibited by the user.

 Repeat the sequence to unlock the control.

3.3 Basic menu

To access the basic menu

- ▶ with the display off, hold down  for 10 seconds
The device turns on and  appears
- ▶ keep pressed until the indication  appears
- ▶ release the  key
The symbol  appears

To navigate in the menu

- ▶ use the icons  

To select a menu item and to confirm the changes made

- ▶ press the icon 
Confirming the change takes you to the next item.

To exit the menu

- ▶ press the icon  for 10 seconds
- ▶ or wait 30 seconds the automatic shutdown

 After 30 seconds from the last action the control goes out and the settings is memorized.

3.3.1 Menu items

ot: AIR probe offset (air probe setting)

ur: Value read by the R.H. sensor

ut: Probe Offset PT4

uS: Humidity setpoint

ui: Humidity hysteresis

CF: Scale

ub: Buzzer volume

uu: Wi-Fi reset

uP: Wi-Fi pairing

 Menu items uu and up are visible only on the command with Wi-Fi link code EFB749.

3.3.2 Set AIR probe offset

To set the air probe regulation

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
By default it is set to 0.
The setting range is from a minimum of -12.0 °C to a maximum of 12.0 °C.

3.3.3 Set probe offset RH

 Modify only after real deviations from an actual measurement with professional instrumentation have been established.

To set the RH probe regulation

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm

3.3.4 Set the humidity setpoint

To set the humidity setpoint

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
The setting range is from 20.0% to 90.0%.

3.3.5 Setting the humidity hysteresis

To set the humidity hysteresis

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
The setting range is from 1 (min) to 30 (max).

3.3.6 Scale

To change the temperature unit of measure

- ▶ select 
- ▶ press  to change settings
- ▶ select °C o °F
- ▶ press  to confirm
By default the temperature unit of measure is °C.

3.3.7 Adjusting buzzer volume

To change the volume

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm
The volume setting range is from 00 (min) to 03 (max).

⚠ The volume changes after confirm the modification.

Wi-Fi reset

To reset the Wi-Fi credentials and return the device to its original configuration

- ▶ select uu
- ▶ press  to change settings
- ▶ use the   icons in sequence
Appear no.
- ▶ press 
- Cr appears to reset Wi-Fi credentials.*
- ▶ press  to confirm
- Credentials have been reset.*

⚠ The function is only available for wall controls with Wi-Fi connection code EFB749.

Activate Wi-Fi

To activate Wi-Fi

- ▶ select up
- ▶ press  to change settings
- ▶ use the   icons in sequence
Appear no.
- ▶ press 
- St appears to enable Wi-Fi pairing.*
- ▶ press  to confirm

⚠ The device remains visible on the App for the first 15 minutes after the device is switched on.

⚠ The function is only available for wall controls with Wi-Fi connection code EFB749.

3.4 Warnings

3.4.1 Long period shut-down

For seasonal shutdowns or for long periods:

- ▶ disable the device
- ▶ set the main system switch to Off

⚠ The antifreeze function is not on.

3.4.2 In case of control blockage

⚠ This procedure should only be carried out in the event that the control locks and no longer responds to commands.

In case of control blockage

- ▶ press both keys  and  for 10 seconds
*□ appears on the display accompanied by a beep.
The control was reset.*

3.4.3 Alarm display on wall control panel

⚠ In the event of an alarm, the device still maintains active functions.

⚠ The symbol  is displayed on the wall control panel to indicate alarms.

⚠ To access the Setup menu, it is necessary to access the Basic menu. See section "Basic menu" [p. 13](#).

To visualise errors on the wall control panel

- ▶ access the basic menu
- ▶ press 
- Appears .*
- ▶ press 
- Appears .*
- ▶ press  to access the menu
- Then the number assigned to the fancoil appears and then the error is displayed.*

Displayed alarms

- ▶ E2 Faulty internal fan motor or disconnected
None of the modes can be activated.

- ▶ E3 Water temperature probe H2/T2 disconnected or failure
None of the modes can be activated.
- ▶ E5 H4/T3 heating water probe disconnected or faulty
None of the modes can be activated.
- ▶ E6 Incorrect water temperature with automatic season function setting
The fancoil is performing heating and cooling functions incorrectly. None of the unit's functions can be activated.
- ▶ E8 Communication error
Communication error between the wall control panel and the fancoil.
- ▶ h2o Incorrect water temperature
*In heating mode, the water temperature is below 30 °C.
In cooling mode, the water temperature is above 20 °C.*

⚠ Error E8 is displayed without the error display procedure on the wall control panel.

3.4.4 Reset filter cleaner alarm

The flashing  symbol indicates that filter cleaning is required.

After the filters have been replaced, it is necessary to reset the filter hour count.

- ▶ press  for about 8 seconds
The  symbol disappears.

SMART TOUCH REMOTE CONTROLS EEA649 - EEB649 - EFA649 - EFB649

4.1 Interface

4.1.1 Description

Smart Touch wall control panels with thermostat and room temperature and relative humidity probe are electronic thermostats with the possibility of control over several appliances with electronic remote control.

Allow:

- room temperature control
- management of the main functions of the device

They are fitted with:

- temperature probe

- internal memory with data saving even in case of shut-down or power outage

- ⚠ The control can control up to a maximum of 30 units.
- ⚠ The room temperature probe ensures an antifreeze safety even when the control is in stand-by
- ⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display. The maximum brightness is restored to the pressure of any key.
- ⚠ Any faults of the connected individual terminals are not indicated by the wall panel.

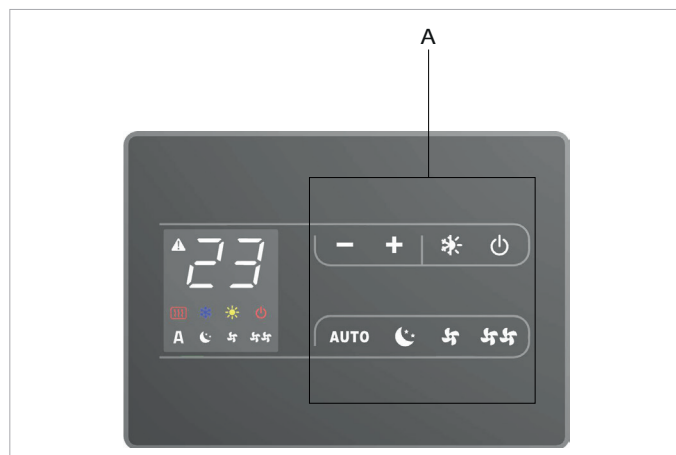
4.1.2 Display

Statuses and active alarms on display.



A	Display area
A	Automatic function active
	Silent function active
	Maximum ventilation speed active
	Night function active
	Heating function on
	Cooling function on
	Alarm active with fixed icon
	Supervision active with flashing icon and CP contact closed
	The appliance is in stand-by mode
	Resistance enabled indication

4.1.3 Keys functions



A	Keys area
+	Up key
-	Down key
	This can be used to select the operating mode (Cooling or Heating)
AUTO	Enables Automatic function
	Consente di attivare la funzione Notturmo con limitazione della velocità di ventilazione e variazione automatica della temperatura
	Enables Maximum ventilation speed function
	This can be used to switch the unit on or off
	Enables the Silent function with ventilation speed limitation to a low maximum value

4.2 Main functions

4.2.1 General start-up

Before the activation:

- ⚠ Make sure that the remote control is connected to the mains.
- ⚠ In case of a master switch on the power supply line, switch on the system by inserting the switch.

To activate the control

- ▶ press the key
The symbol lights up.

4.2.2 Operating mode set-up

to switch the operating mode

- ▶ press the key for about 2 seconds
The symbol on indicates the Heating function enable
The symbol on indicate the Cooling function enable

- ⚠ In heating function the symbols is alight with setpoint higher than the room temperature.
- ⚠ In cooling function the symbols is alight with setpoint lower than the room temperature.
- ⚠ In the case of an incorrect setpoint, the symbol of the activated function flashes and ventilation stops until the appropriate value is reached.

4 pipes versions

In 4-pipe versions, with automatic Cooling/Heating regulation active, the simultaneous switching on of the symbols indicates that the set-point has been reached.

4.2.3 Put in stand-by the control

To put in stand-by the control

- ▶ press the key for about 2 seconds
The control goes out.

- ⚠ In stand-by mode the control ensures an antifreeze safety. In case of temperature $< 5^{\circ}\text{C}$, the hot water solenoid valve outputs and boiler consent are activated automatically.

4.2.4 Set room temperature

To set-up the temperature

- ▶ operate the **- +** keys to decrease or increase the desired value
The displayed value change.

- ⚠ The adjustment range goes from 16°C to 28°C , with a resolution of $0,5^{\circ}\text{C}$.
- ⚠ Out of range values from 5°C and 40°C are allowed, except in automatic mode. These value should be set only for short periods of time.

4.2.5 Automatic operation

To select the Automatic function

- ▶ press the **AUTO** key for about 2 seconds
The symbol **A** on indicates the Automatic function enable.

- ⚠ The ventilation speed is automatically adjusted between a minimum value and a maximum value based on an algorithm type PI, according to the actual distance from the room temperature set-point.

4.2.6 Silent operation

To select the Silent operation

- ▶ press the key for about 2 seconds
The symbol on indicates the Silent function enable

- ⚠ The ventilation speed is limited at a more reduced maximum value.

4.2.7 Night function

To select the Night function

- ▶ press the  key for about 2 seconds
The symbol  on indicate the Night function enable.

- ⚠ The ventilation speed is limited at a very low value.
- ⚠ The set temperature is automatically changed:
 - in Heating mode, decreases by - 1 °C after one hour and by another - 1 °C after two hours
 - in Cooling mode, increases by 1 °C after one hour and by another + 1 °C after two hours

4.2.8 Maximum ventilation speed

To select the operation at the maximum ventilation speed

- ▶ press the  key for about 2 seconds
The symbol  on indicates the maximum speed function enable

- ⚠ Maximum power output is immediately obtained both in heating and cooling.
- ⚠ After reaching the desired room temperature, select a different function to increase the thermal and acoustic comfort.

4.2.9 Set the key lock

To set-up the key locking

- ▶ press both keys   for 10 seconds
The text  appearing on the display.

- ⚠ All settings are inhibited by the user.
- ⚠ Repeat the sequence to unlock the control.

4.2.10 Brightness reduction

To reduce the display brightness

- ▶ with the display off, press the  key for 5 seconds
The text  appearing on the display.
- ▶ press the  key to decrease the value
- ▶ wait 20 seconds
The brightness is reduced.

- ⚠ After 20 seconds from the last action the panel brightness will be reduced to increase the comfort during night use. On the display will appear only the room temperature.

4.2.11 Deactivation

To deactivate the display

- ▶ press the key  for about 2 seconds
All the light signals go off.

- ⚠ In stand-by mode, the control guarantees antifreeze protection.

4.2.12 Room temperature probe offset adjustment

To adjust the room temperature probe offset

- ▶ from display off, press the  key for about 5 seconds
Access to the variation menu of the AIR probe offset displayed on the display.
- ▶ press the   keys to edit
The displayed value change.

- ⚠ Since the room temperature probe is located at the bottom of the unit, it is possible that in some cases the measurement may differ from the actual temperature.
- ⚠ Use this adjustment carefully.
- ⚠ This adjustment must be carried out only after having found actual deviations from the room temperature using a reliable tool.
- ⚠ Adjust the value in a range of - 9/+ 12, at variations of 0.1 °C.
- ⚠ After 20 seconds from the last action the control goes out and the settings is memorized.

4.2.13 WiFi network On, Off and Reset

⚠ Setting only valid for EFA649 - EFB649 controls.

To activate the WiFi network

- ▶ from the display on, press the  key for about 10 seconds
The text "On" appearing on the display.
- ▶ do not touch any keys for another 10 seconds
The WiFi network is active and remains visible and usable with the last configured name.

To reset and restore the WiFi network to its original configuration

- ▶ from the display on, press the  key for about 10 seconds
The text "On" appearing on the display.
- ▶ press again the  key
The text "rSt" appearing on the display.
- ▶ do not touch any keys for another 10 seconds, switch off and on the power supply of the control.
WiFi network is reset.

To turn off the WiFi network

- ▶ from the display on, press the  key for about 10 seconds
The text "On" appearing on the display.
- ▶ press again the  key again until "OFF" appears
The text "OFF" appearing on the display.
- ▶ do not touch any keys for another 10 seconds
The WiFi network is turned off and will not be displayed on your smartphone or tablet.

4.3 Warnings

4.3.1 Long period shut-down

For seasonal shutdowns or for long periods:

- ▶ disable the device
- ▶ set the main system switch to Off

⚠ The antifreeze function is not on.

4.3.2 Visualization of alarms on display

Displayed alarms

- ▶ ⚠ E1 Room temperature probe disconnected or faulty
None of the modes can be activated.
- ▶ ⚠ E2 Fault or connection of a remote double room sensor on one of the fan coil units
None of the modes can be activated.
- ▶ ⚠ E3 Humidity probe disconnected or faulty
None of the modes can be activated.
- ▶ ⚠ E4 Air quality probe disconnected or faulty
None of the modes can be activated.

ON-BOARD CONTROL ECA644 - ECA647 - EWF644 - EWF647

5.1 Interface

⚠ The controls can only be installed on the versions AirLeaf SL, AirLeaf SLS, AirLeaf RS.

5.1.1 Description

The on-board electronic controls with continuously modulating thermostat allow:

- room temperature control
- management of the main functions of the device

They are fitted with:

- internal memory with data saving even in case of shut-down or power outage

Through the water temperature probe (10 kΩ) positioned in the compartment on the unit's coil, the functions can be regulated:

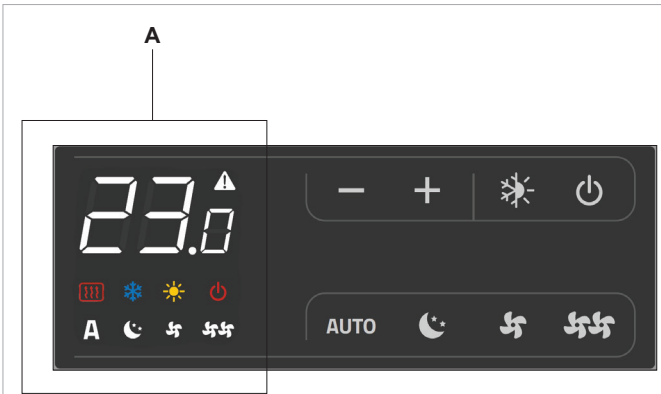
- minimum temperature in heating mode (30 °C)
- maximum temperature in cooling mode (20 °C)

⚠ The room temperature probe ensures an antifreeze safety even when the control is in stand-by

⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display. The maximum brightness is restored to the pressure of any key.

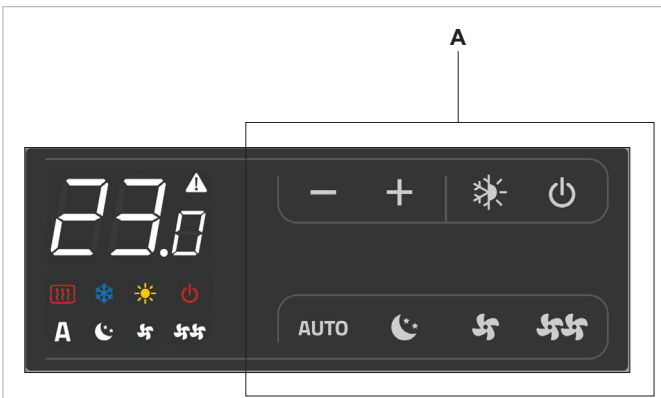
5.1.2 Display

Statuses and active alarms on display.



A	Display area
A	Automatic function active
	Silent function active
	Maximum ventilation speed active
	Night function active
	Heating function on
	Cooling function on
	Alarm active with fixed icon
	Supervision active with flashing icon and CP contact closed
	The appliance is in stand-by mode
	Resistance enabled indication

5.1.3 Keys functions



A	Keys area
+	Up key
-	Down key
	This can be used to select the operating mode (Cooling or Heating)
AUTO	Enables Automatic function
	Consente di attivare la funzione Notturno con limitazione della velocità di ventilazione e variazione automatica della temperatura
	Enables Maximum ventilation speed function
	This can be used to switch the unit on or off
	Enables the Silent function with ventilation speed limitation to a low maximum value

5.2 Main functions

5.2.1 General start-up

Before the activation:

- ⚠ Make sure that the remote control is connected to the mains.
- ⚠ In case of a master switch on the power supply line, switch on the system by inserting the switch.

To activate the control

- ▶ press the  key
The symbol  lights up.

5.2.2 Operating mode set-up

to switch the operating mode

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Heating function enable
The symbol  on indicate the Cooling function enable

- ⚠ In heating function the symbols is alight with setpoint higher than the room temperature.
- ⚠ In cooling function the symbols is alight with setpoint lower than the room temperature.
- ⚠ In the case of an incorrect setpoint, the symbol of the activated function flashes and ventilation stops until the appropriate value is reached.

If the printed circuit board detects the water temperature probe correctly, start-up takes place under normal conditions.

- ⚠ The printed circuit board provides for operation without a water probe. In this case, the fan stop thresholds are ignored.

4 pipes versions

In 4-pipe versions, with automatic Cooling/Heating regulation active, the simultaneous switching on of the   symbols indicates that the set-point has been reached.

5.2.3 Put in stand-by the control

To put in stand-by the control

- ▶ press the  key for about 2 seconds
The control goes out.

- ⚠ In stand-by mode the control ensures an antifreeze safety. In case of temperature <5 °C, the hot water solenoid valve outputs and boiler consent are activated automatically.

5.2.4 Set room temperature

To set-up the temperature

- ▶ operate the   keys to decrease or increase the desired value
The displayed value change.

- ⚠ The adjustment range goes from 16 °C to 28 °C, with a resolution of 0,5 °C.

- ⚠ Out of range values from 5 °C and 40 °C are allowed, except in automatic mode. These value should be set only for short periods of time.

5.2.5 Automatic operation

To select the Automatic function

- ▶ press the **AUTO** key for about 2 seconds
The symbol  on indicates the Automatic function enable.

- ⚠ The ventilation speed is automatically adjusted between a minimum value and a maximum value based on an algorithm type PI, according to the actual distance from the room temperature set-point.

5.2.6 Silent operation

To select the Silent operation

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Silent function enable.

- ⚠ The ventilation speed is limited at a more reduced maximum value.

5.2.7 Night function

To select the Night function

- ▶ press the  key for about 2 seconds
The symbol  on indicate the Night function enable.

- ⚠ The ventilation speed is limited at a very low value.
- ⚠ The set temperature is automatically changed:
 - in Heating mode, decreases by - 1 °C after one hour and by another - 1 °C after two hours
 - in Cooling mode, increases by 1 °C after one hour and by another + 1 °C after two hours

5.2.8 Maximum ventilation speed

To select the operation at the maximum ventilation speed

- ▶ press the  key for about 2 seconds
The symbol  on indicates the maximum speed function enable

- ⚠ Maximum power output is immediately obtained both in heating and cooling.
- ⚠ After reaching the desired room temperature, select a different function to increase the thermal and acoustic comfort.

5.2.9 Set the key lock

To set-up the key locking

- ▶ press both keys   for 10 seconds
The text  appearing on the display.

- ⚠ All settings are inhibited by the user.

⚠ Repeat the sequence to unlock the control.

5.2.10 Brightness reduction

To reduce the display brightness

- ▶ with the display off, press the **+** key for 5 seconds
The text "Br" appearing on the display.
- ▶ press the **-** key to decrease the value
- ▶ wait 20 seconds
The brightness is reduced.

⚠ After 20 seconds from the last action the panel brightness will be reduced to increase the comfort during night use. On the display will appear only the room temperature.

5.2.11 Deactivation

To deactivate the display

- ▶ press the key **⏻** for about 2 seconds
All the light signals go off.

⚠ In stand-by mode, the control guarantees antifreeze protection.

5.2.12 Room temperature probe offset adjustment

To adjust the room temperature probe offset

- ▶ from display off, press the **-** key for about 5 seconds
Access to the variation menu of the AIR probe offset displayed on the display.
- ▶ press the **-** **+** keys to edit
The displayed value change.

⚠ Since the room temperature probe is located at the bottom of the unit, it is possible that in some cases the measurement may differ from the actual temperature.

⚠ Use this adjustment carefully.

⚠ This adjustment must be carried out only after having found actual deviations from the room temperature using a reliable tool.

⚠ Adjust the measured value in a range of - 9/+ 12 K, with variations of 0.1 °C.

⚠ After 20 seconds from the last action the control goes out and the settings is memorized.

5.2.13 WiFi network On, Off and Reset

⚠ Setting only valid for EWF644 - EWF647 controls.

To activate the WiFi network

- ▶ from the display on, press the **WiFi** key for about 10 seconds
The text "On" appearing on the display.
- ▶ do not touch any keys for another 10 seconds
The WiFi network is active and remains visible and usable with the last configured name.

To reset and restore the WiFi network to its original configuration

- ▶ from the display on, press the **WiFi** key for about 10 seconds
The text "On" appearing on the display.
- ▶ press again the **WiFi** key
The text "rSt" appearing on the display.
- ▶ do not touch any keys for another 10 seconds, switch off and on the power supply of the control.
WiFi network is reset.

To turn off the WiFi network

- ▶ from the display on, press the **WiFi** key for about 10 seconds
The text "On" appearing on the display.
- ▶ press again the **WiFi** key again until "OFF" appears
The text "OFF" appearing on the display.
- ▶ do not touch any keys for another 10 seconds
The WiFi network is turned off and will not be displayed on your smartphone or tablet.

5.3 Warnings

5.3.1 Long period shut-down

For seasonal shutdowns or for long periods:

- ▶ disable the device
- ▶ set the main system switch to Off

⚠ The antifreeze function is not on.

5.3.2 Visualization of alarms on display

Displayed alarms

- ⚠ E1 Room temperature probe disconnected or faulty
None of the modes can be activated.
- ▶ ⚠ E2 Failed internal fan motor (e.g. jamming due to foreign objects or failure of the rotation sensor)
None of the modes can be activated.

- ▶ ⚠ E3 Water temperature probe H2 alarm not suitable, temporary stop of the ventilation until the temperature reaches an appropriate value
- ▶ ⚠ E5 Water temperature probe H4 alarm not suitable, temporary stop of the ventilation until the temperature reaches an appropriate value. Only for ECA647 - EWF647 (4-pipe versions)
- ▶ ☀ ❄ Incorrect set-point. The symbol of the activated function flashes and ventilation stops until the appropriate value is reached.

⚠ Check that the probe is correctly positioned in the compartment on the coil.

⚠ The printed circuit board provides for operation without a water probe. In this case, the fan stop thresholds are ignored.

ON-BOARD CONTROL E4T643

6.1 Interface

⚠ The control can only be installed on the view versions AirLeaf SL, AirLeaf SLS, AirLeaf RS.

6.1.1 Description

The SMART TOUCH on-unit electronic control with 4 fixed speeds and thermostat allows:

- room temperature control
- management of the main functions of the device

The electronic control on-board the unit is equipped with:

- internal memory with data saving even in case of shut-down or power outage

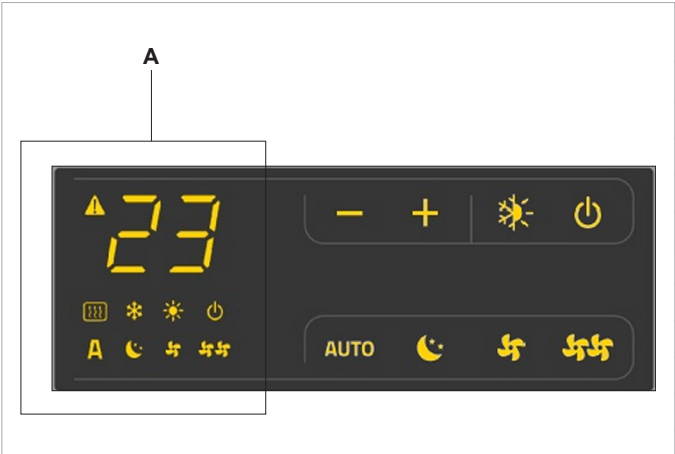
Through the water temperature probe (10 kΩ) positioned in the compartment on the unit's coil, the functions can be regulated:

- minimum temperature in heating mode (30 °C)
- maximum temperature in cooling mode (20 °C)

- ⚠ The room temperature probe ensures an antifreeze safety even when the control is in stand-by
- ⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display. The maximum brightness is restored to the pressure of any key.

6.1.2 Display

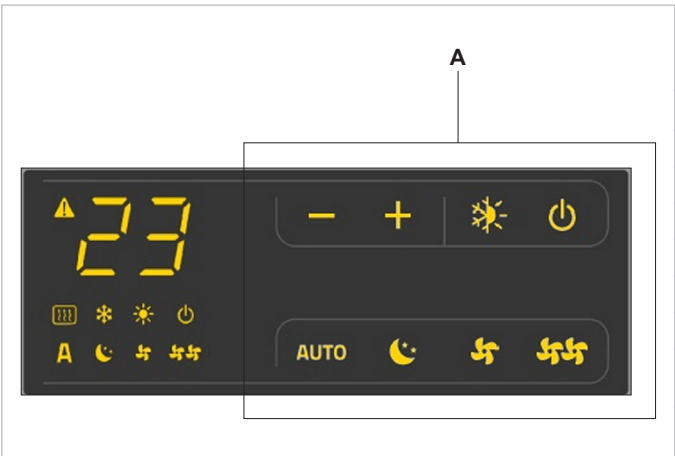
Statuses and active alarms on display.



The diagram shows a rectangular control panel with a digital display showing '23' and a small alarm icon. Below the display are several icons: a battery level indicator, a snowflake (cooling), a sun (heating), a power button, and a row of four fan speed icons. At the bottom, there are more icons: 'A' (alarm), a moon (super silent), two fan speed icons, and a row of four fan speed icons. The panel is labeled 'A' at the top.

A	Display area
A	Automatic function active
⚡	Minimum ventilation speed active
⚡⚡	Maximum ventilation speed active
🌙	Super Silent function active
☀	Heating function on
❄	Cooling function on
⚠	Alarm active with fixed icon
⚠	Supervision active with flashing icon
🔌	The appliance is in stand-by mode
🔋	Resistance enabled indication

6.1.3 Keys functions



The diagram shows the same control panel as in 6.1.2, but with a box highlighting the keys area labeled 'A'. This area includes the '+' and '-' keys, the sun and snowflake mode keys, the power key, the 'AUTO' key, the moon key, the two fan speed keys, and the four fan speed keys.

A	Keys area
+	Up key
-	Down key
☀/❄	This can be used to select the operating mode (Cooling or Heating)
AUTO	Enables Automatic function
🌙	Enables Super Silent function
⚡⚡	Enables Maximum ventilation speed function
🔌	This can be used to switch the unit on or off
⚡	Enables the Minimum ventilation speed function with ventilation speed limitation to a low value

6.2 Main functions

6.2.1 General start-up

Before the activation:

- ⚠ Make sure that the remote control is connected to the mains.
- ⚠ In case of a master switch on the power supply line, switch on the system by inserting the switch.

To activate the control

- ▶ press the  key
The symbol  lights up.

6.2.2 Operating mode set-up

to switch the operating mode

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Heating function enable
The symbol  on indicate the Cooling function enable

- ⚠ In heating function the symbols is alight with setpoint higher than the room temperature.
- ⚠ In cooling function the symbols is alight with setpoint lower than the room temperature.
- ⚠ In the case of an incorrect setpoint, the symbol of the activated function flashes and ventilation stops until the appropriate value is reached.

If the printed circuit board detects the water temperature probe correctly, start-up takes place under normal conditions.

- ⚠ The printed circuit board provides for operation without a water probe. In this case, the fan stop thresholds are ignored.

4 pipes versions

In 4-pipe versions, with automatic Cooling/Heating regulation active, the simultaneous switching on of the   symbols indicates that the set-point has been reached.

6.2.3 Put in stand-by the control

To put in stand-by the control

- ▶ press the  key for about 2 seconds
The control goes out.

- ⚠ In stand-by mode the control ensures an antifreeze safety. In case of temperature <5 °C, the hot water solenoid valve outputs and boiler consent are activated automatically.

6.2.4 Set room temperature

To set-up the temperature

- ▶ operate the   keys to decrease or increase the desired value
The displayed value change.

- ⚠ The adjustment range goes from 16 °C to 28 °C, with a resolution of 0,5 °C.

- ⚠ Out of range values from 5 °C and 40 °C are allowed, except in automatic mode. These value should be set only for short periods of time.

6.2.5 Automatic operation

To select the Automatic function

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Automatic function enable.

- ⚠ In automatic mode the fan performs a 'step' regulation as the room temperature approaches the set-point.

6.2.6 Minimum speed ventilation function

To select the operation at the Minimum ventilation speed

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Minimum speed function enable.

- ⚠ The ventilation speed is limited at a more reduced maximum value.

6.2.7 Super Silent Function

To select Super Silent function

- ▶ press the  key for about 2 seconds
The symbol  on indicates that the Super Silent function is activated.

When the Super Silent function is selected, it is activated:

- strong dehumidification in cooling mode
- radiant-only operation (with fan off, solenoid valve and in the RS version active micro-fans) in heating mode

6.2.8 Maximum ventilation speed

To select the operation at the Maximum ventilation speed

- ▶ press the  key for about 2 seconds
The symbol  on indicates the maximum speed function enable

- ⚠ Maximum power output is immediately obtained both in heating and cooling.
- ⚠ After reaching the desired room temperature, select a different function to increase the thermal and acoustic comfort.

6.2.9 Set the key lock

To set-up the key locking

- ▶ press both keys   for 10 seconds
The text  appearing on the display.

- ⚠ All settings are inhibited by the user.
- ⚠ Repeat the sequence to unlock the control.

6.2.10 Brightness reduction

To reduce the display brightness

- ▶ with the display off, press the **+** key for 5 seconds
The text  appearing on the display.
- ▶ press the **-** key to decrease the value
- ▶ wait 20 seconds
The brightness is reduced.

⚠ After 20 seconds from the last action the panel brightness will be reduced to increase the comfort during night use. On the display will appear only the room temperature.

6.2.11 Deactivation

To deactivate the display

- ▶ press the key  for about 2 seconds
All the light signals go off.

⚠ In stand-by mode, the control guarantees antifreeze protection.

6.2.12 Room temperature probe offset adjustment

To adjust the room temperature probe offset

- ▶ from display off, press the **-** key for about 5 seconds
Access to the variation menu of the AIR probe offset displayed on the display.
- ▶ press the **-** **+** keys to edit
The displayed value change.

⚠ Since the room temperature probe is located at the bottom of the unit, it is possible that in some cases the measurement may differ from the actual temperature.

⚠ Use this adjustment carefully.

⚠ This adjustment must be carried out only after having found actual deviations from the room temperature using a reliable tool.

⚠ Adjust the measured value in a range of - 9/+ 12 K, with variations of 0.1 °C.

⚠ After 20 seconds from the last action the control goes out and the settings is memorized.

6.3 Warnings

6.3.1 Long period shut-down

For seasonal shutdowns or for long periods:

- ▶ disable the device
- ▶ set the main system switch to Off

⚠ The antifreeze function is not on.

6.3.2 Visualization of alarms on display

- ▶ ⚠ E1 Faulty room temperature probe
None of the modes can be activated.
- ▶ ⚠ E2 Motor alarm (for example, jamming due to foreign bodies or fault of the rotation sensor)
- ▶ ⚠ E3 Water temperature probe H2 alarm not suitable, temporary stop of the ventilation until the temperature reaches an appropriate value

⚠ Make sure the probe installed is 10 kΩ.

ON-UNIT CONTROL E2T543

7.1 Interface

⚠ The control can only be installed on the view versions AirLeaf SL, AirLeaf SLS, AirLeaf RS.

7.1.1 Description

The electronic control on the unit with 4 fixed speeds and thermostat allows:

- room temperature control
- management of the main functions of the device

It is fitted with:

- internal memory with data saving even in case of shut-down or power outage

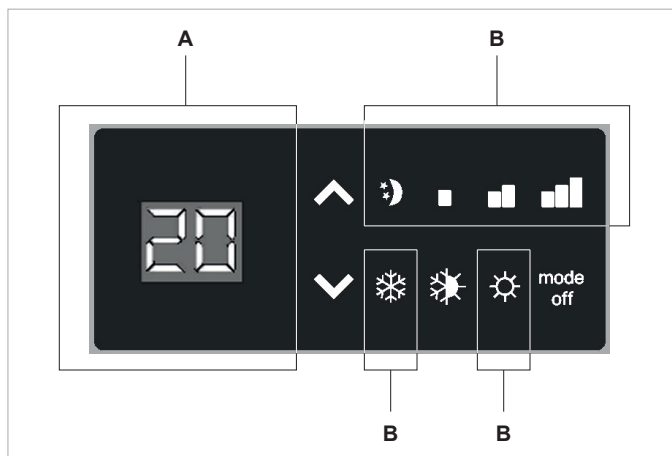
Through the water temperature probe (10 kΩ) positioned in the compartment on the unit's coil, the functions can be regulated:

- minimum temperature in heating mode (30 °C)
- maximum temperature in cooling mode (20 °C)

⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display. The maximum brightness is restored to the pressure of any key.

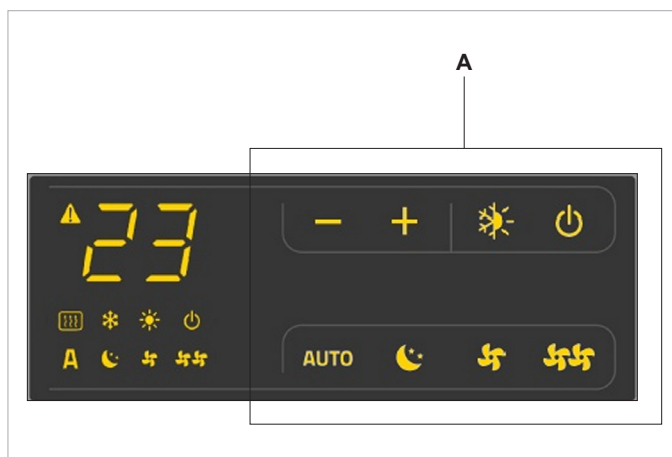
7.1.2 Display

Statuses and active alarms on display.



A	Display area
B	Led area
■	Minimum speed active
■ ■	Medium speed active
■ ■ ■	Maximum speed active
★ ☾	Super Silent function active
☀	Heating function on
❄	Cooling function on

7.1.3 Keys functions



A	Keys area
▲	Up key
▼	Down key
☀ ❄	This can be used to select the operating mode (Cooling or Heating)
mode off	Allows you to switch the unit on or off and select operating modes

7.2 Main functions

7.2.1 General start-up

Before the activation:

- ⚠ Make sure that the remote control is connected to the mains.
- ⚠ In case of a master switch on the power supply line, switch on the system by inserting the switch.

To activate the control

- ▶ press the  key
The control turns on.
The text  appearing on the display.

7.2.2 Operating mode set-up

to switch the operating mode

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Heating function enable
The symbol  on indicate the Cooling function enable

- ⚠ In heating function the symbols is alight with setpoint higher than the room temperature.
- ⚠ In cooling function the symbols is alight with setpoint lower than the room temperature.
- ⚠ In the case of an incorrect setpoint, the symbol of the activated function flashes and ventilation stops until the appropriate value is reached.

7.2.3 Put in stand-by the control

To put in stand-by the control

- ▶ press the  key for about 2 seconds
The control goes out.

7.2.4 Set room temperature

To set-up the temperature

- ▶ operate the   keys to decrease or increase the desired value
The displayed value change.

- ⚠ The temperature adjustment range is from 15 to 30°C, with a resolution of 0.5°C.
- ⚠ Off-scale values of 5°C (Lo) and 40°C (Hi) are possible, except in automatic mode. Only set these values for short periods.

7.2.5 Setting the ventilation speed

To select the fan speed control

- ▶ press the key  on indicates the Silent function enable
The symbol  on indicates the Silent function enable

- ⚠ The ventilation speed is limited at a more reduced maximum value.

- ▶ press the  key for about 2 seconds
The symbol  on indicates the Heating function enable
The symbol  on indicate the Cooling function enable

- ⚠ In heating function the symbols is alight with setpoint higher than the room temperature.
- ⚠ In cooling function the symbols is alight with setpoint lower than the room temperature.

7.2.6 Set the key lock

To set-up the key locking

- ▶ press both keys   for 10 seconds
The text  appearing on the display.

- ⚠ All settings are inhibited by the user.
- ⚠ Repeat the sequence to unlock the control.

7.2.7 Brightness reduction

To reduce the display brightness

- ▶ press the  key for 10 seconds
The text  appearing on the display.

To restore normal display brightness

- ▶ press the  key for 10 seconds
The text  appearing on the display.

- ⚠ After 20 seconds from the last action the panel brightness will be reduced to increase the comfort during night use. On the display will appear only the room temperature.

7.2.8 Deactivation

To deactivate the display

- ▶ press the key  for about 2 seconds
All the light signals go off.

- ⚠ In stand-by mode, the control guarantees antifreeze protection.

7.3 Warnings

7.3.1 Long period shut-down

For seasonal shutdowns or for long periods:

- ▶ disable the device
- ▶ set the main system switch to Off

7.3.2 Visualization of alarms on display

E1 and flashing of all LEDs Room temperature probe disconnected or faulty (automatic reset alarm)

None of the modes can be activated.

- ▶ E2 and flashing of LEDs ☀ ❄ Motor alarm (e.g., jamming due to foreign matter or rotation sensor failure) (automatic reset alarm)
- ▶ E3 and flashing of LEDs * 📶 Failure of water temperature detection probe located in the main battery
- ▶ Flashing of LED ☀ Water temperature alarm, water demand not met (<30 °C in heating). Temporary stop of ventilation until the appropriate value is reached
- ▶ Flashing of LED ❄ Water temperature alarm, water demand not met (>20 °C in cooling). Temporary stop of ventilation until the appropriate value is reached

⚠ Check that the probe is correctly positioned in the compartment on the coil.

⚠ The printed circuit board provides for operation without a water probe. In this case, the fan stop thresholds are ignored.

SPEED SELECTOR B3V137

8.1 Interface

⚠ The control can only be installed on the view versions AirLeaf SL, AirLeaf SLS, AirLeaf RS.

8.1.1 Description

The on-board speed selector allows:

- management of the main functions of the device

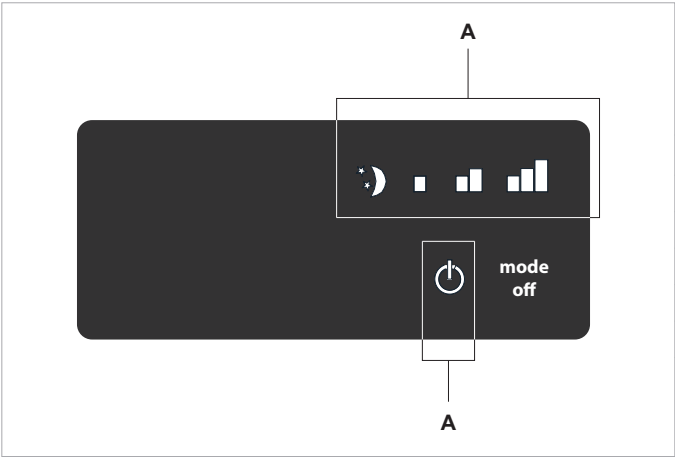
It is fitted with:

- internal memory with data saving even in case of shut-down or power outage

⚠ After 20 seconds after the last action the panel brightness is reduced, only the room temperature is seen on the display. The maximum brightness is restored to the pressure of any key.

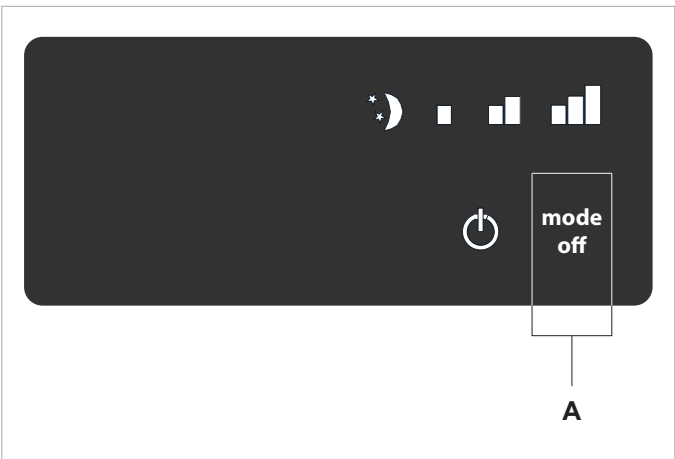
8.1.2 Display

Statuses and active alarms on display.



A	Led area
	Minimum speed active
	Medium speed active
	Maximum speed active
	Super Silent function active
	The appliance is in stand-by mode with a fixed icon
	Open TA contact with flashing icon

8.1.3 Keys functions



A	Keys area
mode off	Allows you to switch the unit on or off and select operating modes

8.2 Main functions

8.2.1 General start-up

Before the activation:

- ⚠ Make sure that the remote control is connected to the mains and to a room thermostat with a single 230 V ac contact.
- ⚠ In case of a master switch on the power supply line, switch on the system by inserting the switch.

To activate the control

- ▶ press the  key
The control turns on.

8.2.2 Put in stand-by the control

To put in stand-by the control

- ▶ press the  key for about 2 seconds
The control goes out.

8.2.3 Setting the ventilation speed

To select the fan speed control

- ▶ press the key 
The symbol  on indicates that the Super Silent function is activated.
The  icon lit up indicates the minimum speed activated.
The  icon lit up indicates the average speed activated.
The  icon lit up indicates the maximum speed function activated.

By setting the maximum speed, the maximum output power is immediately obtained in both heating and cooling mode.

- ⚠ After reaching the desired room temperature, select a different function to increase the thermal and acoustic comfort.

8.2.4 Deactivation

To deactivate the display

- ▶ press the key  for about 2 seconds
All the light signals go off.

8.3 Warnings

8.3.1 Long period shut-down

For seasonal shutdowns or for long periods:

- ▶ disable the device
- ▶ set the main system switch to Off

8.3.2 Visualization of alarms on display

- ▶ Led  flashing TERM contact open
- ▶ Led  lit steadily TERM contact closed
- ▶ Led  lit steadily Super Silent function active (400 rpm)
- ▶ Led  lit steadily Minimum active speed (680 rpm)
- ▶ Led  lit steadily Average speed active (1100 rpm)
- ▶ Led  lit steadily Maximum active speed (1500 rpm)

MAINTENANCE

Routine maintenance is essential to keep the device always efficient, safe and reliable over time.

10.1 Preliminary warnings

Before each cleaning and maintenance intervention:

- ▶ disconnect the device from the power mains by turning the system master switch to "OFF"
- ▶ wait for the components to cool down in order to avoid any burns
- ⊖ Carrying out any technical or cleaning work before disconnecting the unit from the power supply is forbidden.
- ⚠ Make sure that there is no voltage before operating.
- ⚠ After completing the maintenance work, must be restored the original condition.

⚠ Warnings:

- Do not lean or sit on the fancoil to avoid damaging the appliance.
- Do not manually move the horizontal louver of the air outlet. Always use the remote control to do this operation.
- If water leaks from the device, you must switch it off immediately and disconnect the power supply. Then, call the nearest customer service centre.
- The device must not be installed in rooms where there are explosive gases or where there are conditions of humidity and temperature out of the limits defined in the installation manual.
- Clean the filter regularly.

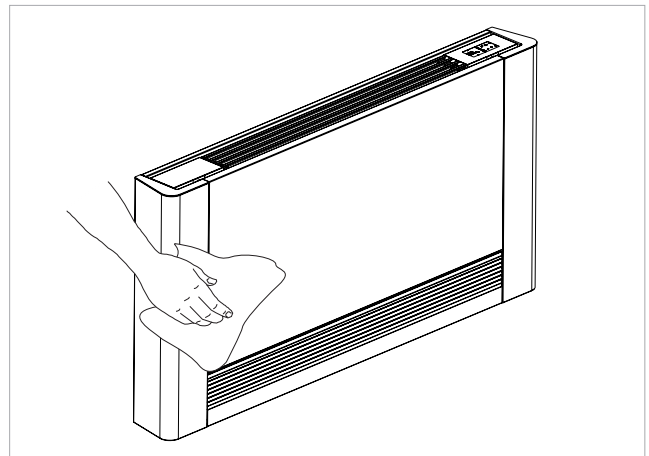
10.2 Routine maintenance

- ⚠ Routine maintenance is essential to keep the device always efficient, safe and reliable over time.
- Carry out cleaning:
- every six months

Before each cleaning and maintenance intervention:

- ▶ disconnect the device from the power mains by turning the system master switch to "OFF"
- ⚠ Wait for the components to cool down in order to avoid any burns.
- ⚠ After completing the maintenance work, must be restored the original condition.
- ⊖ It is forbidden to open the access doors and carry out any technical or cleaning intervention, before having disconnect the device from the mains supply by placing the main switch of the system on "OFF".

10.2.1 External cleaning



Clean the external surfaces using a soft cloth dampened with water.

- ⚠ Do not use abrasive sponges or abrasive or corrosive detergents as you might damage the painted surface.
- ⚠ Disconnect the unit from the power supply before each cleaning and maintenance intervention by setting the main power supply switch to off.

10.2.2 Air intake filter cleaning

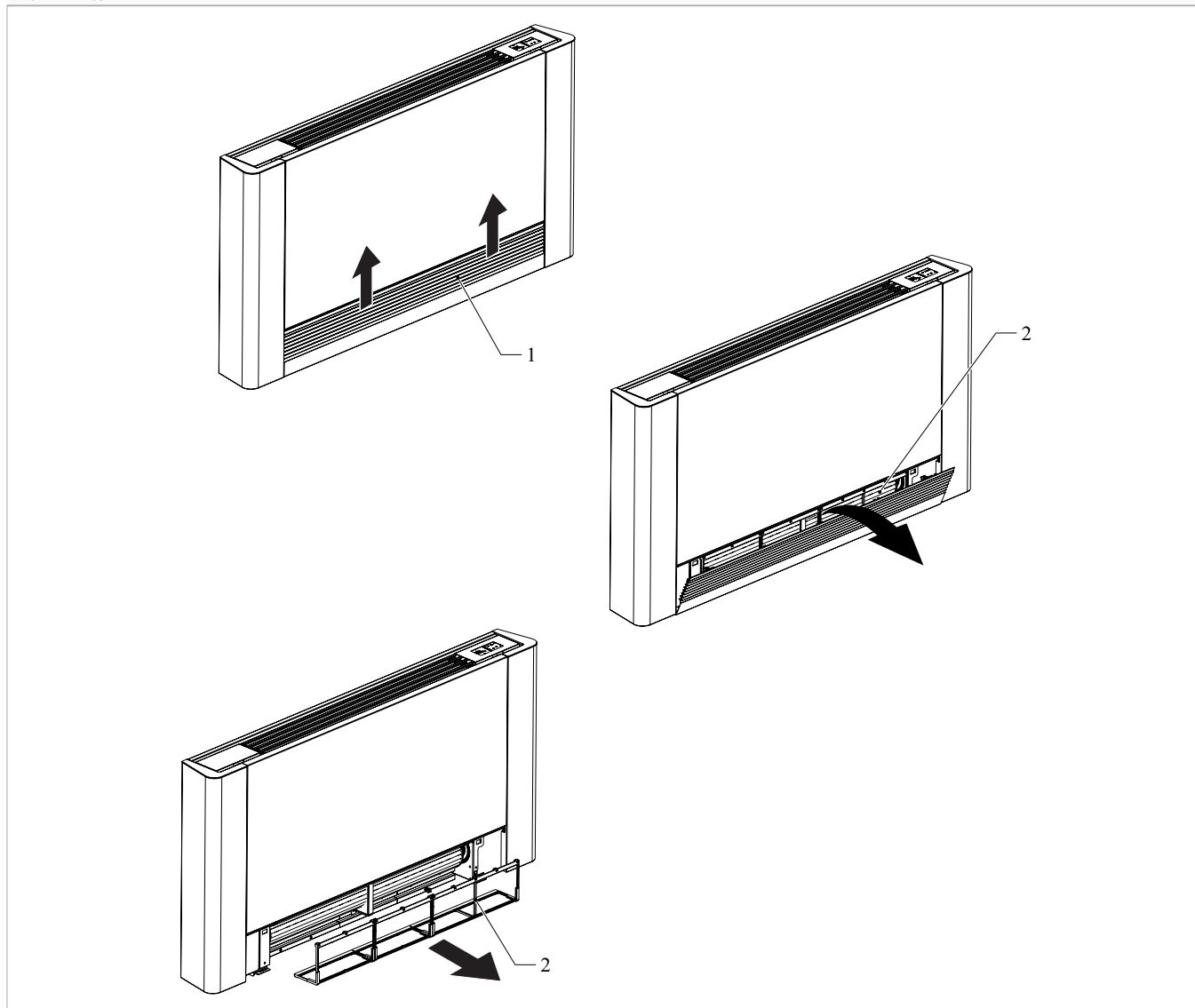
Cleaning the filter must be carried out:

- after prolonged operation, considered the concentration of impurities in the air
- when you plan to restart the system after prolonged disuse

Filter extraction

Version with finned intake grill

1. Air intake grill with fins
2. Filter

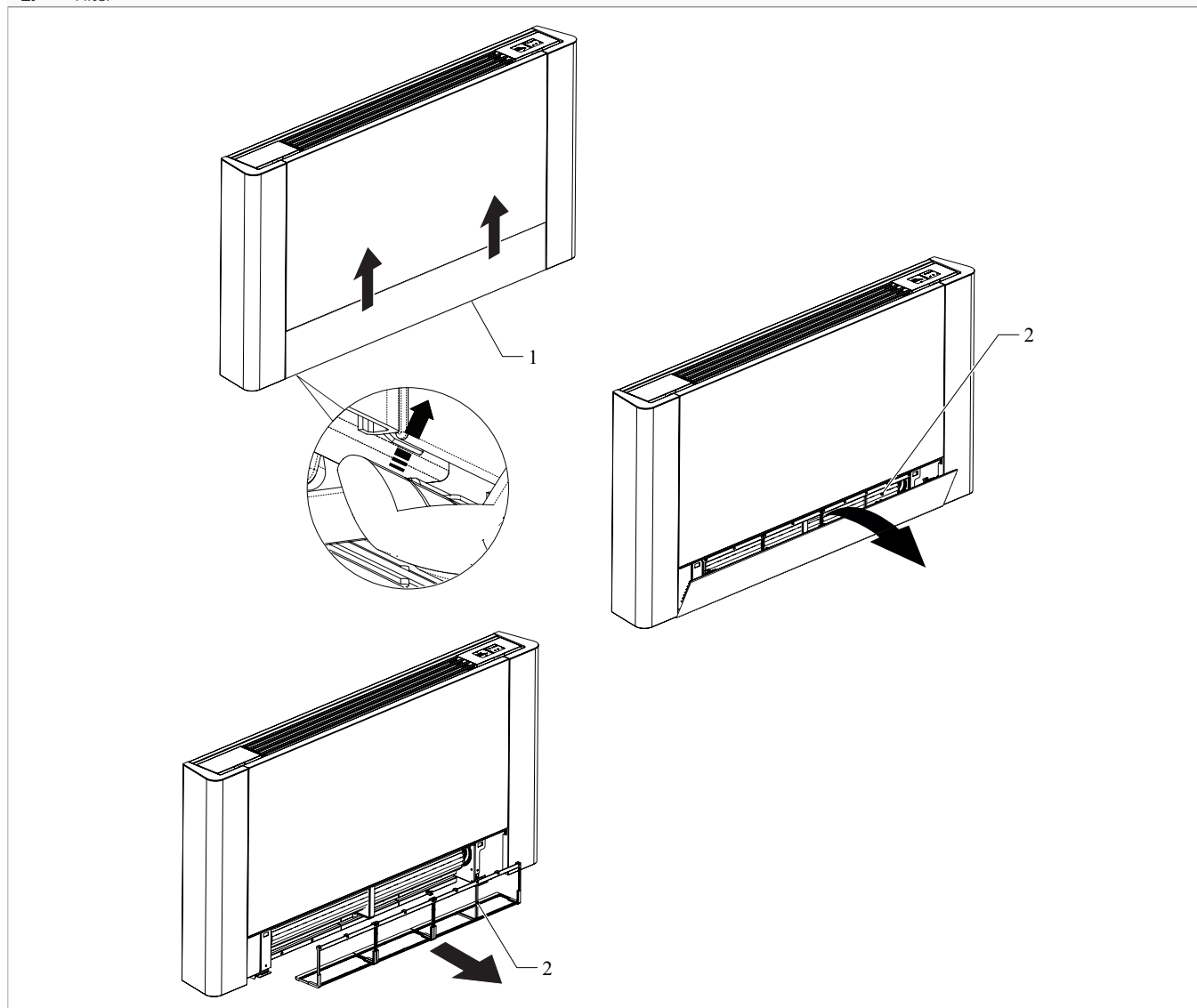


For removing the filter in versions with a finned intake grill:

- ▶ lift the fin grill slightly
- ▶ rotate the fin grill until it comes completely out of the housing
- ▶ remove the grid
- ▶ remove the filter

Version with mobile intake panel

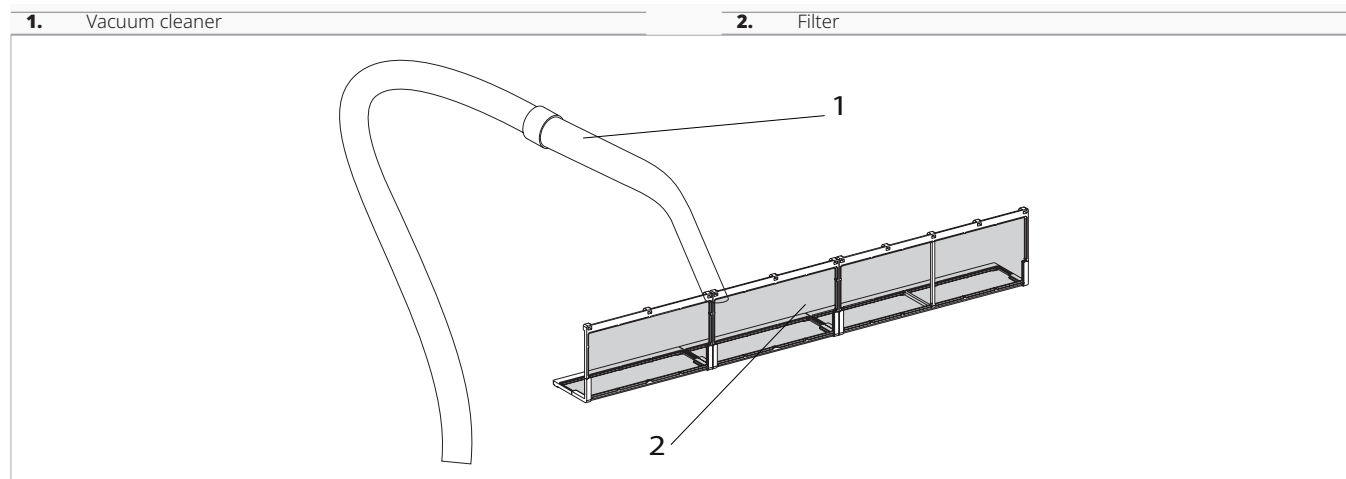
1. Mobile intake panel
2. Filter



To removing the filter in versions with mobile intake panel:

- ▶ press the plastic tabs at the lower ends of the mobile panel
- ▶ lift the mobile panel slightly
- ▶ rotate until the complete exit from the housing
- ▶ remove the mobile panel
- ▶ remove the filter

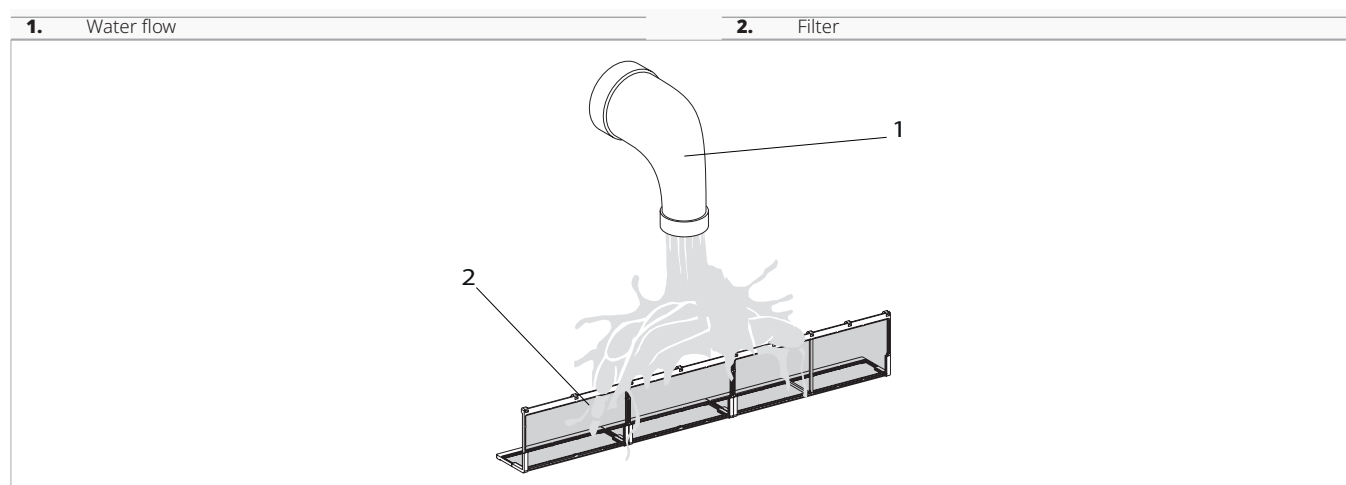
Cleaning the filters



To clean the filter:

- ▶ use a vacuum cleaner

- ▶ aspirate dust



If the quantity of dust is considerable:

- ▶ wash the filter under running water (max. 40 °C)
- ▶ allow to dry in the shade

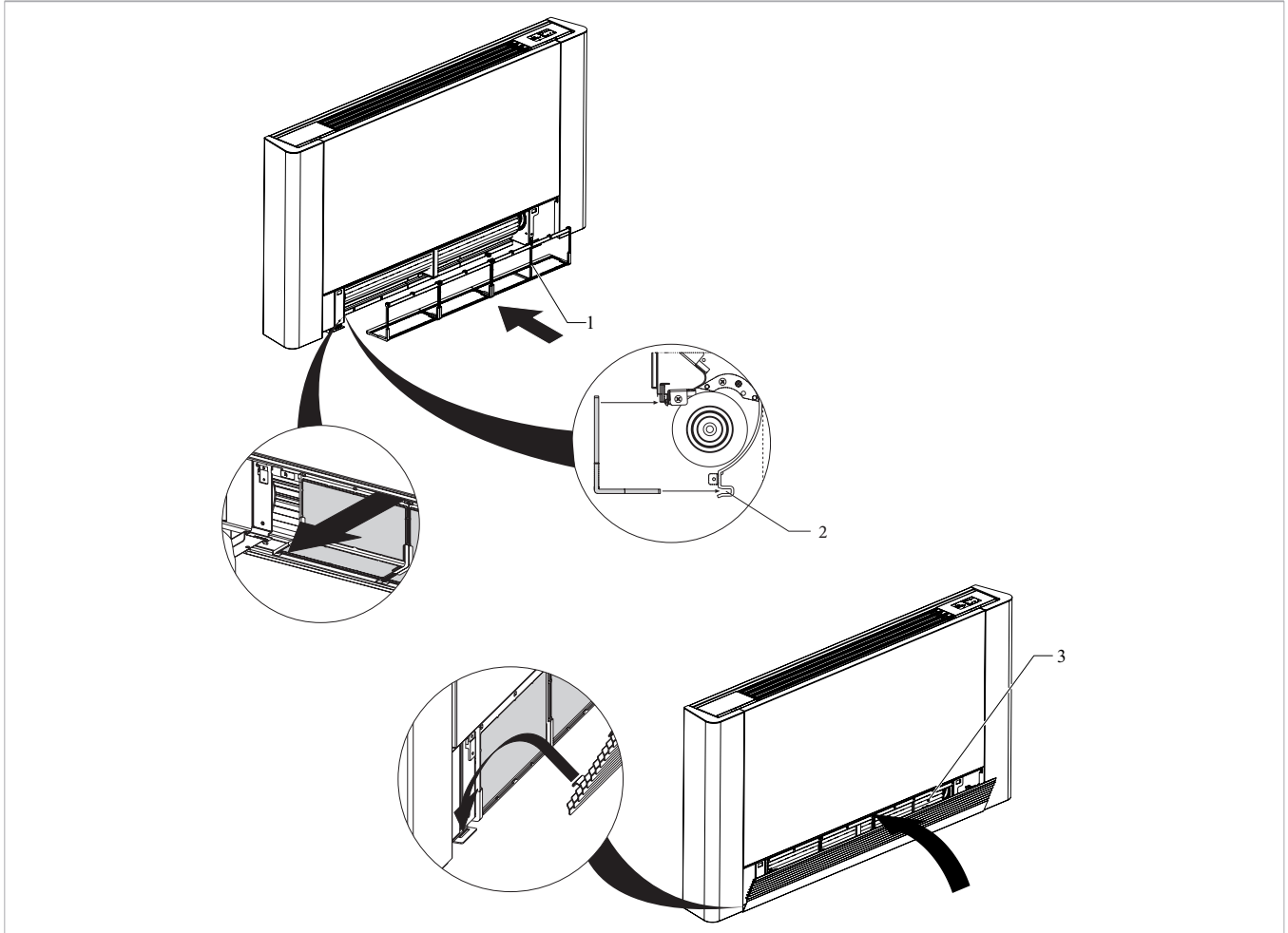
⚠ Exposure to the sun or washing water temperatures above 40 °C can shrink the filters.

⊖ It is forbidden to use detergents or solvents to clean the filter.

Filter installation

Version with finned intake grill

1. Filter
2. Filter housing



To reassemble the filter:

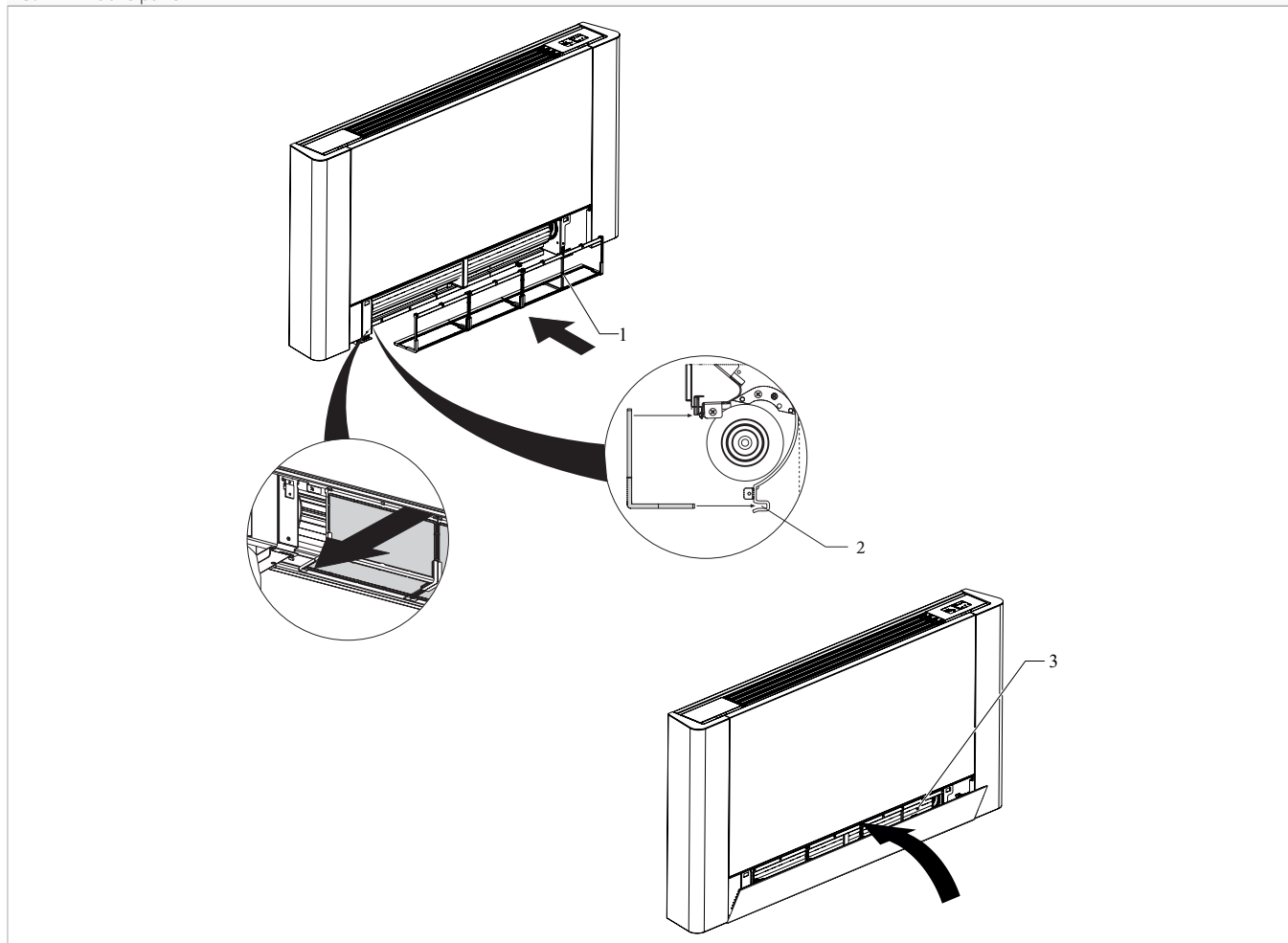
- ▶ bring the filter closer to the unit
- ▶ insert the filter into its housing
- ▶ bring the finned grill closer
- ▶ insert the grill into the appropriate slots
- ▶ rotating the grill
- ▶ hooking the grill

⚠ Check that the filter is fitted correctly.

⊘ It is forbidden to use the unit without a filter.

Version with mobile intake panel

1. Filter
2. Filter housing
3. Mobile panel



To reassemble the filter:

- ▶ bring the filter closer to the unit
- ▶ insert the filter into its housing
- ▶ place the mobile panel on the appliance
- ▶ press the panel until it locks

⚠ The appliance is equipped with a safety switch that prevents fan operation in the absence or with a poorly positioned moving panel.

⚠ Check that the filter is fitted correctly.

⊘ It is forbidden to use the unit without a filter.

10.3 Suggestions for energy saving

For a correct operation of the device and a great energy saving:

- keep the filters clean
- keep the doors and windows of the locations fitted with air conditioning systems closed as much as possible
- During summer limit the entry of direct sun rays into the rooms to be air-conditioned by means of external screens (projections, curtains, shutters, etc.)

TROUBLESHOOTING

11.1 Preliminary warnings

Should you encounter any of the anomalies below:

- the ventilation does not start even if the water circuit is filled with hot or cold water
- the device is losing water in heating mode
- the device is losing water in cooling mode
- the device generates excessive noise
- there is dew on the front panel

Follow the instructions below:

- ▶ disconnect the device from power supply immediately
- ▶ close the water taps
- ▶ contact immediately an authorized technical support center or qualified staff

⚠ The interventions must be carried out by a qualified installer or by a specialized support center.

⊖ Do not intervene personally.

11.2 Troubleshooting table

Effect	Cause	Solution
The ventilation is delayed with respect to the new temperature or function settings.	The circuit valve requires a certain time to open and therefore to make the hot or cold water circulate inside the device.	Wait 2 or 3 minutes to allow the circuit valve to open.
The device does not activate the ventilation.	Cold or hot water is missing from the system.	Make sure the boiler or the water cooler are on.
The ventilation does not start even if the water circuit is filled with hot or cold water.	The hydraulic valve stays closed.	Demount the body of the valve and check if the water circulation is restored. Check the valve operation feeding it separately to 230 V. If you were to turn on, the problem may be in the electronic control.
	The ventilation motor is jammed or burnt.	Check the motor windings and check if the fan rotates freely.
	The wirings are not correct.	Check the electrical connections.
The device is losing water in heating mode.	Leaks at the hydraulic connections of the system.	Check the leak and tighten the connection.
	Losses in the valve group.	Check the condition of the gaskets.
There is dew on the front panel.	Detached thermal insulation.	Check the correct positioning of the thermal and acoustic insulations paying particular attention to the front one located on top of the finned coil.
There are water drops on the air vent.	High humidity conditions (>60%) might generate condensation, especially at minimum ventilation speeds.	As soon as the level of relative humidity drops, the phenomena disappears. However, a few water drops falling inside the device will not cause any malfunction.
The device is losing water in cooling mode.	The condensate tray is clogged.	Slowly pour a bottle of water in the lower section of the battery to check the drainage; if necessary clean the tray and/or improve the slope of the drain pipe.
	The condensate discharge pipe does not have the slope required for correct drainage.	
	The connection pipes and the valves unit are not well insulated.	Check the pipe insulation.
The device generates excessive noise.	The fan touches the structure.	Check.
	The fan is unbalanced.	The unbalancing generates excessive machine vibrations: replace the fan.
	Check the filters for dirt and clean them if necessary.	Clean the filters.



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