

User's manual  
(Translation of original  
language)

EN



N400649A - Rev.05 - 07/2024

# ..2.0

9-10-12-15 HP DC Inverter  
12-15 HP DC Inverter ELEC 2  
kW

---

*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



# TABLE OF CONTENTS

<b>1</b>	<b>Coding</b> . . . . .	<b><u>p. 6</u></b>
<b>1.1</b>	<b>Coding accessories</b> . . . . .	<b><u>p. 6</u></b>
<b>2</b>	<b>General information</b> . . . . .	<b><u>p. 7</u></b>
<b>2.1</b>	<b>About the manual.</b> . . . . .	<b><u>p. 7</u></b>
2.1.1	Editorial pictograms . . . . .	<u>p. 7</u>
2.1.2	Pictograms on the product. . . . .	<u>p. 7</u>
2.1.3	Recipients . . . . .	<u>p. 7</u>
2.1.4	Manual organisation . . . . .	<u>p. 7</u>
<b>2.2</b>	<b>Disposal.</b> . . . . .	<b><u>p. 8</u></b>
<b>2.3</b>	<b>General warnings</b> . . . . .	<b><u>p. 8</u></b>
<b>3</b>	<b>Unit with touchpad and remote control</b> . . . . .	<b><u>p. 9</u></b>
<b>3.1</b>	<b>Interface</b> . . . . .	<b><u>p. 9</u></b>
3.1.1	Description . . . . .	<u>p. 9</u>
3.1.2	Touchscreen display . . . . .	<u>p. 9</u>
3.1.3	Remote control. . . . .	<u>p. 10</u>
<b>3.2</b>	<b>Main functions.</b> . . . . .	<b><u>p. 10</u></b>
3.2.1	General start-up . . . . .	<u>p. 10</u>
3.2.2	Operating mode set-up . . . . .	<u>p. 10</u>
3.2.3	Put on stand-by . . . . .	<u>p. 10</u>
3.2.4	Set room temperature . . . . .	<u>p. 11</u>
3.2.5	Automatic Function . . . . .	<u>p. 11</u>
3.2.6	Ventilation speed regulation . . . . .	<u>p. 11</u>
3.2.7	Dehumidification Function. . . . .	<u>p. 11</u>
3.2.8	Ventilation Function. . . . .	<u>p. 11</u>
3.2.9	Night function . . . . .	<u>p. 11</u>
3.2.10	Moving Deflector Control function active. . . . .	<u>p. 11</u>
3.2.11	Key lock . . . . .	<u>p. 11</u>
<b>3.3</b>	<b>Basic menu.</b> . . . . .	<b><u>p. 12</u></b>
3.3.1	Menu items . . . . .	<u>p. 12</u>
3.3.2	Scale . . . . .	<u>p. 12</u>
3.3.3	Buzzer volume . . . . .	<u>p. 12</u>
3.3.4	Temperature offset in Heating . . . . .	<u>p. 12</u>
3.3.5	Temperature offset in Cooling . . . . .	<u>p. 12</u>
3.3.6	Heating element type configuration. . . . .	<u>p. 12</u>
3.3.7	Wi-Fi reset . . . . .	<u>p. 12</u>
3.3.8	Activate Wi-Fi . . . . .	<u>p. 12</u>
<b>3.4</b>	<b>Warnings</b> . . . . .	<b><u>p. 13</u></b>
3.4.1	Operating the unit if the remote control is not available . . . . .	<u>p. 13</u>
3.4.2	Visualization of alarms on display . . . . .	<u>p. 13</u>
<b>3.5</b>	<b>App Innova</b> . . . . .	<b><u>p. 13</u></b>
3.5.1	Description . . . . .	<u>p. 13</u>

<b>4</b>	<b>M7 series controls EEB749 / EFB749</b>	<b>p. 14</b>
<b>4.1</b>	<b>Interface</b>	<b>p. 14</b>
4.1.1	Description	p. 14
4.1.2	Display	p. 14
4.1.3	Keys functions	p. 14
<b>4.2</b>	<b>Main functions.</b>	<b>p. 15</b>
4.2.1	General start-up	p. 15
4.2.2	Put on stand-by	p. 15
4.2.3	Set room temperature	p. 15
4.2.4	Heating operation	p. 15
4.2.5	Cooling Operation	p. 15
4.2.6	Automatic change of heating/cooling operation mode.	p. 15
4.2.7	Selection of ventilation power level	p. 15
4.2.8	Functioning in automatic mode.	p. 15
4.2.9	Functions in night mode.	p. 15
4.2.10	Set the key lock.	p. 16
<b>4.3</b>	<b>Basic menu.</b>	<b>p. 16</b>
4.3.1	Menu items	p. 16
4.3.2	Set AIR probe offset.	p. 16
4.3.3	Set probe offset RH	p. 16
4.3.4	Set the humidity setpoint	p. 16
4.3.5	Setting the humidity hysteresis.	p. 16
4.3.6	Scale	p. 16
4.3.7	Adjusting the volume	p. 17
4.3.8	Wi-Fi reset	p. 17
4.3.9	Activate Wi-Fi	p. 17
<b>4.4</b>	<b>Warnings</b>	<b>p. 17</b>
4.4.1	In case of blockage	p. 17
4.4.2	Alarm display on wall control panel	p. 17
<b>6</b>	<b>Maintenance</b>	<b>p. 18</b>
<b>6.1</b>	<b>Preliminary warnings.</b>	<b>p. 18</b>
6.1.1	Specific warnings R32	p. 18
<b>6.2</b>	<b>Routine maintenance.</b>	<b>p. 18</b>
6.2.1	External cleaning	p. 18
6.2.2	Cleaning the filters	p. 18
<b>6.3</b>	<b>Long period shut-down.</b>	<b>p. 19</b>
<b>6.4</b>	<b>Suggestions for energy saving</b>	<b>p. 19</b>
<b>7</b>	<b>Troubleshooting</b>	<b>p. 20</b>
<b>7.1</b>	<b>Troubleshooting table</b>	<b>p. 20</b>
<b>7.2</b>	<b>Troubleshooting.</b>	<b>p. 20</b>
7.2.1	Functional aspects not to be interpreted as faults.	p. 20
7.2.2	Open CP contact	p. 20
<b>7.3</b>	<b>Maximum condensate collection level warning</b>	<b>p. 20</b>
<b>7.4</b>	<b>Use of the appliance</b>	<b>p. 21</b>
<b>8</b>	<b>Technical information.</b>	<b>p. 22</b>
<b>8.1</b>	<b>Operating limits.</b>	<b>p. 22</b>

- 8.2 RED Compliance Statement . . . . . p. 22
- 8.3 Safety . . . . . p. 22
- 8.4 FCC Declaration of Conformity . . . . . p. 22
  - 8.4.1 Warnings . . . . . p. 22
  - 8.4.2 Notes on WiFi communication . . . . . p. 22

## CODING

**⚠ The present manual refers to the products:**

- ..2.0 MINI - 09 HP DC INVERTER
- ..2.0 - 10 HP DC INVERTER
- ..2.0 - 12 HP DC INVERTER
- ..2.0 MAXI - 15 HP DC INVERTER
- ..2.0 ELEC 2 KW - 12 HP DC INVERTER
- ..2.0 ELEC 2 KW - 15 HP DC INVERTER

### 1.1 Coding accessories

	Accessory description	Combinable products	Code
<b>Wall-mounted control panels M7 series</b>			
<b>Control panels</b>			
	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
	LED electronic control panel with touch interface, wall-mounted complete with thermostat and room temperature and relative humidity probe with integrated WiFi module, App Innova Butler. Cable connection. Colour white	All	EFB749II

## 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



##### Read instruction manual

Read the instructions carefully before performing any work on the appliance.



##### Instruction manual

Read the information available in the technical documentation of the device.



##### 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.

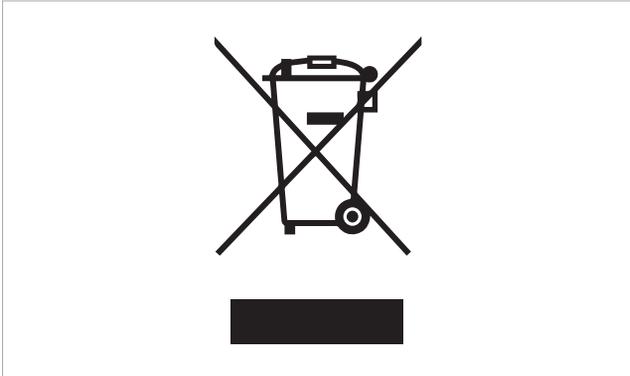
**Control panels**

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 packaging indicates that the product must not be treated as normal household waste, but must be taken to the appropriate collection point for recycling of used electrical and electronic equipment and batteries.

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.



This symbol might be used in combination with a chemical symbol.

In this case, it complies with the requirement set by the Directive for the chemical involved.

**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.
- ⚠ The unit can be used by children over the age of 8, and by people with reduced physical, sensory or mental capabilities, or with no experience or necessary knowledge, as long as they are monitored or after they have received instructions on the safe use of the unit and have understood the dangers involved. Children must not play with the appliance. The cleaning and maintenance that must be performed by the user should not be carried out by children without supervision.

## UNIT WITH TOUCHPAD AND REMOTE CONTROL

⚠ **The touchpad control is supplied as standard installed on the unit.**

⚠ If the unit with touchpad and remote control is combined with an M7 series wall control (Cod. EEB749 / EFB749), the change of functions is only possible via the wall control.

⚠ The on-board display works in display-only mode.

### 3.1 Interface

#### 3.1.1 Description

The touchpad control is supplied as standard on board the unit, does not require any connections and enables:

- show the operating status
- show any alarms
- select the various functions

The remote control allows you to:

- select the various functions

⚠ The remote control supplied with the device is designed to provide maximum sturdiness and exceptional functionality, but should nonetheless.

⚠ The keys of the remote control and touch-screen display perform the same function.

⚠ Handle with care.

⚠ Warnings:

- do not expose the remote control to rain or contact with liquids
- do not expose the remote control to direct sunlight
- handle with care avoiding strong impacts or falling on hard surfaces
- do not place obstacles between the remote control and the device while you are using the remote

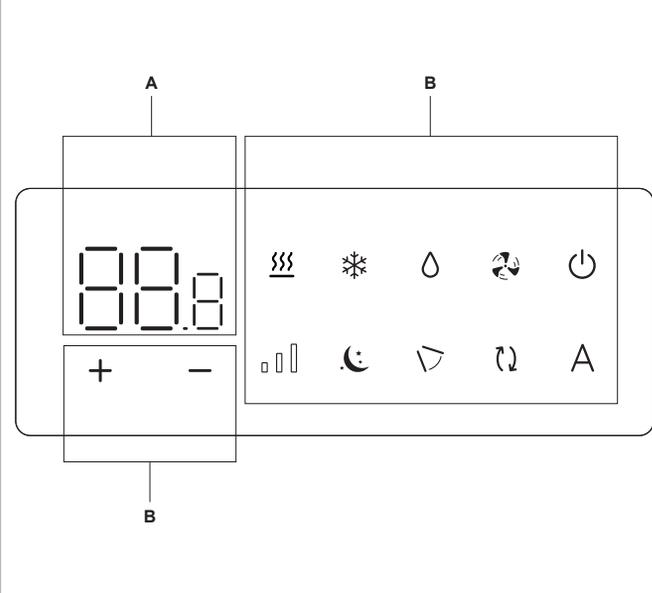
⚠ If other devices are being used within the premises that are operated by remote control (TVs, radios, stereos, etc.), you might experience some interference.

⚠ Electronic and fluorescent lamps can interfere with communications between the remote control and the device.

⚠ Electronic and fluorescent lamps can interfere with communications between the remote control and the device.

#### 3.1.2 Touchscreen display

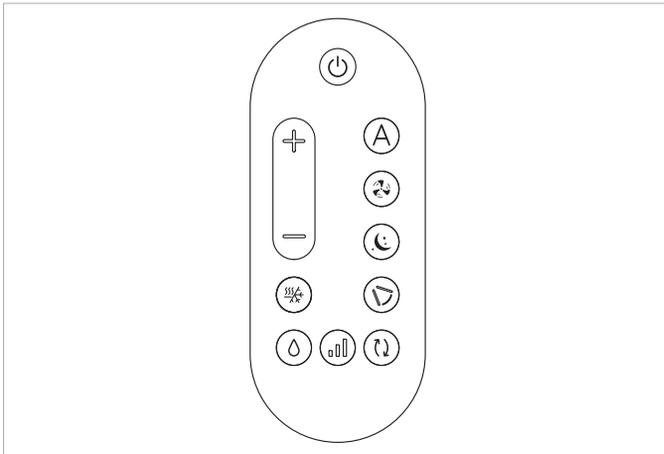
Keys and functions related.



<b>A</b>	Display area
<b>B</b>	Keys area
00.0	Setpoint
+	Up key
-	Down key
🔥	Allows you to select the Heating mode of operation
❄️	Allows you to select the Cooling mode of operation
💧	Allows you to activate the Dehumidification function
🌀	Allows you to activate the Ventilation function
🔌	This can be used to switch the unit on or off
📊	Allows you to control ventilation speed
🌙	Enables the Night function
📏	Allows you to activate the Moving Deflector Control function
🔄	Allows you to activate the Air Change function (not visible on base unit)
A	Enables the Automatic function

### 3.1.3 Remote control

Keys and functions related.



	Up key
	Down key
	This can be used to switch the unit on or off
	Enables the Automatic function
	Allows you to activate the Ventilation function
	Enables the Night function
	Allows you to activate the Moving Deflector Control function
	This can be used to select the operating mode (Cooling or Heating)
	Allows you to activate the Dehumidification function
	Allows you to control ventilation speed
	Allows you to activate the Air Change function (not visible on base unit)

### Inserting the battery

**⚠** Use only a dry 3 V lithium battery CR2430 (included) with the remote control.

**To insert the battery:**

- ▶ open the slot on the bottom of the remote control

- ▶ insert the battery according to the +/- polarity
- ▶ close the cover after inserting the battery

**⚠** Used batteries must be disposed of appropriately (WEEE) through special waste collection centres provided by the local authorities.

## 3.2 Main functions

**⚠** The keys of the remote control and touchpad perform the same function.

### 3.2.1 General start-up

Before the activation:

- ⚠** Make sure the device is connected to the power supply.
- ⚠** In case of a master switch on the power supply line, switch on the system by inserting the switch.

To control the device with the remote control or touch-screen display:

- ▶ insert the power plug of the unit into the power socket of the system

**To activate the touchpad**

- ▶ press and hold for 2 seconds

*The device turns on.*

*The preset set-point appears on the 3 digits of the display.*

**Correct use of the remote control:**

- Point the front of the remote towards the unit's display, the buzzer will emit a beep and a message will appear on the display to confirm that the command has been enabled
- The maximum range to send commands is about 8 metres.

### 3.2.2 Operating mode set-up

**to switch the operating mode**

- ▶ press one of the following keys for about 2 seconds

*The symbol on indicates the Heating function enable*

**⚠** The device heats the room with setpoint higher than the room temperature.

**⚠** In this mode of operation, the appliance periodically performs a defrosting of the evaporation coil. During this phase, the appliance does not heat the room.

*The symbol on indicate the Cooling function enable*

**⚠** The unit cools and dehumidifies the room with setpoint below room temperature.

**⚠** Ventilation is maintained even if the setpoint is reached.

### 3.2.3 Put on stand-by

**To put on stand-by**

- ▶ press for 2 seconds

*The device turns off.*

**⚠** If you plan to keep the device out of service for a prolonged time:

- ▶ disable the device
- ▶ disconnect the main breaker
- ▶ removing the power plug

**⚠** The device is equipped with a memory so all settings will not be lost either in case of power off or in case of power failure.

### 3.2.4 Set room temperature

#### To set-up the temperature

- ▶ operate the  keys to decrease or increase the desired value  
*The value changes.*

- ⚠ The room temperature set-point can range between 16 and 31 °C.
- ⚠ Setting temperatures too low or too high is detrimental to health and an unnecessary waste of energy.

### 3.2.5 Automatic Function

#### To select the Automatic function

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

- ⚠ Ventilation speed is automatically adjusted for optimal comfort. The unit automatically selects the operation mode and ventilation speed according to the set temperature.

### 3.2.6 Ventilation speed regulation

#### To adjust the ventilation speed

- ▶ press  in sequence to set the ventilation speed  
 Minimum ventilation speed.  
 Medium ventilation speed.  
 Maximum ventilation speed.  
 Flashing indicates Booster ventilation speed.

- ⚠ Booster ventilation speed:
  - is only available for Heating and Cooling operation
  - is only activated for 90 minutes
  - after 90 minutes, the Automatic function is set for 30 min and the Booster ventilation cannot be selected again
  - after 30 min you can select the Booster ventilation speed again
- ⚠ This function is not available for functions:
  - Dehumidification
  - Night

### 3.2.7 Dehumidification Function

#### To select the Dehumidification function

- ▶ press  for 2 seconds  
*The  symbol on indicates the Dehumidification function is activated.*

- ⚠ In this mode, the device dehumidifies the room.
- ⚠ In this mode of operation, speed settings are ignored and the device operates only in minimum speed.

### 3.2.8 Ventilation Function

#### To select the Ventilation function

- ▶ press  for 2 seconds  
*The  symbol on indicates the Ventilation function is activated.*

- ⚠ In this mode of operation, the compressor is never activated and the unit exerts no action on either temperature or humidity. The only action possible is the choice of ventilation speed.

### 3.2.9 Night function

#### To select the Night function

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

- ⚠ This mode of operation maximizes the quietness of the appliance, saving electricity and regulating nighttime well-being.
- ⚠ In this mode the fan is set to minimum speed.
- ⚠ 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
  - after 2 hours the temperature set is no longer changed
  - after 6 hours, the device is put into standby mode
- ⚠ This function is not available for functions:
  - Dehumidification
  - Ventilation
  - Automatic
- ⚠ This function can be excluded at any time by pressing the button again.

### 3.2.10 Moving Deflector Control function active

#### To activate the Moving Deflector Control function

- ▶ press  for 2 seconds  
*The symbol  on indicates the Moving Deflector Control function is activated.  
The continuous swinging of the moving air outlet deflector is activated.*

- ⚠ Never force the flow deflector manually to move it.
- ⊖ It is forbidden to force the movement of the moving deflector manually.
- ⚠ In Heating or Cooling operation, the deflector position is reset every 30 minutes to prevent dew formation.

You can lock the moving deflector at the position you want to direct the airflow.

#### To lock the moving deflector and direct the air flow

- ▶ press  for 2 seconds  
*The symbol  off indicates the Moving Deflector Control function is off.  
The moving air outlet deflector locks in the desired position.*

### 3.2.11 Key lock

#### To set-up the key locking

- ▶ press  and  at the same time for about 5 seconds  
 appears to confirm key lock.

Pressing any key on the display shows .

 Setting the key lock also locks the remote control.

 All settings are inhibited by the user.

 Repeat the sequence to unlock the control.

### 3.3 Basic menu

#### To access the basic menu

- ▶ press  for 10 seconds  
Appears .

#### To move within the menu or change values

- ▶ use  

#### To select a menu item and to confirm the changes made

- ▶ press   
The menu item is selected and the settings are accessed.  
Changes are confirmed when the symbol  appears.

#### To exit menu items without saving

- ▶ press   
You exit the selected menu item.

#### To exit the basic menu

- ▶ press once   
Appears --.
- ▶ press  again  
You exit the basic menu.

 After a period of 30 seconds from the last action, the display turns off.

#### 3.3.1 Menu items

**CF:** Scale

**Ub:** Buzzer volume

**oH:** Temperature offset in Heating

**oC:** Temperature offset in Cooling

**Ht:** Heating element type configuration (only for models ..2.0 ELEC 2 kW)

**ur:** Wi-Fi reset

**uP:** Wi-Fi pairing

#### 3.3.2 Scale

##### To change the temperature unit of measure

- ▶ select 
- ▶ select °C o °F  
By default the temperature unit of measure is °C.

#### 3.3.3 Buzzer volume

##### To change the volume

- ▶ select   
The volume setting range is from 00 (min) to 03 (max).

 The volume changes after confirmed the change.

#### 3.3.4 Temperature offset in Heating

##### To set the temperature offset in Heating

- ▶ select   
The temperature offset setting range in Heating is from -9 °C (minimum) to 9 °C (maximum).

 The range for °F is smaller, equivalent to -5 °C/5 °C.

#### 3.3.5 Temperature offset in Cooling

##### To set the temperature offset in Cooling

- ▶ select   
The temperature offset setting range in Cooling is from -9 °C (minimum) to 9 °C (maximum).

 The range for °F is smaller, equivalent to -5 °C/5 °C.

#### 3.3.6 Heating element type configuration

 This setting is only visible in the basic menu for ..2.0 ELEC 2 kW models.

##### To configure the heating element type

- ▶ select 
- ▶ select NO to disable the heating element
- ▶ select r1 to configure the heating element to 1 kW
- ▶ select r2 to configure the heating element to 2 kW  
By default the device is set to r1.

#### 3.3.7 Wi-Fi reset

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

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence  
Appears  .
- ▶ press 
- ▶  appears to reset Wi-Fi credentials.
- ▶ press  to confirm  
Credentials have been reset.

#### 3.3.8 Activate Wi-Fi

##### To activate Wi-Fi

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence  
Appears  .
- ▶ press 
- ▶  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.

## 3.4 Warnings

### 3.4.1 Operating the unit if the remote control is not available

If you lose the remote control, the batteries run out or the remote stops working, you can operate the device with the keys on the touch-screen display on-board the machine.

### 3.4.2 Visualization of alarms on display

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

⚠ A flashing  symbol and alarm code are displayed on the touchpad to indicate alarms.

#### Alarm codes

- ▶ Er01 Room temperature probe disconnected or faulty
- ▶ Er02 Temperature error of the internal heat exchanger
- ▶ Er03 Source fluid temperature sensor error
- ▶ Er04 Source exchanger temperature sensor error
- ▶ Er05 Indoor fan speed out of range (min/max)
- ▶ Er06 External fan speed out of range (min/max)
- ▶ Er07 Driver Communication failure
- ▶ Er08 Delivery temperature probe error
- ▶ Er09 Remote function error
- ▶ Er10 Condensate level in the bowl too high
- ▶ CP CP contact activation
- ▶ Er12 Compressor driver failure
- ▶ Er16 No refrigerant / 4-way valve failure
- ▶ Er17 Driver malfunction / Compressor mismatch
- ▶ Er19 Heating element temperature probe error
- ▶ Er20 Error second temperature probe of the external exchanger
- ▶ Er22 Incorrect power supply
- ▶ Er23 UV lamp error

## 3.5 App Innova

### 3.5.1 Description

Innova is the application that allows you to manage the elements of your home system through your smartphone or tablet, directly from home or remotely. Through the application you can set commands to individual devices, rooms or directly to the whole house.

⚠ For the use of the application, please refer to the specific manual for the Innova App (M7 Smart Touch Series wall and on-board controls).

## M7 SERIES CONTROLS EEB749 / EFB749

### 4.1 Interface

#### 4.1.1 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:

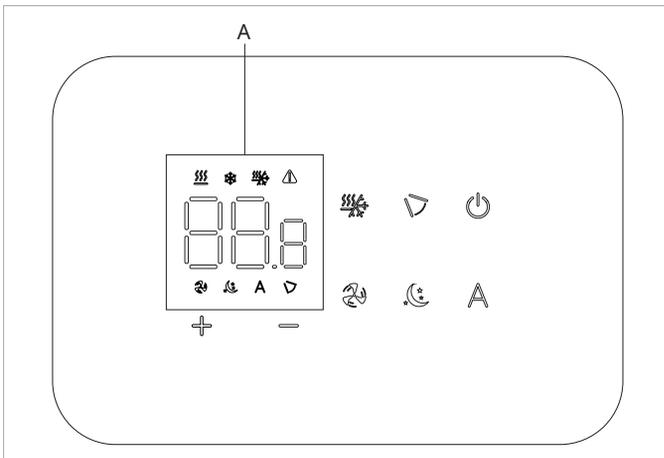
- internal memory with data saving even in case of shut-down or power outage

⚠ 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.

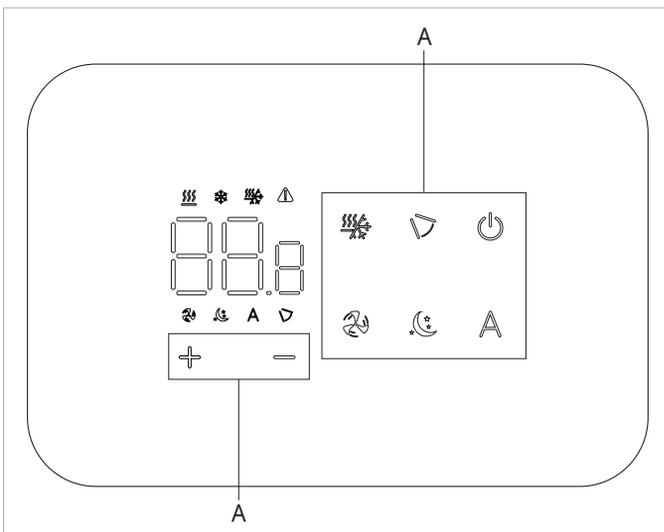
#### 4.1.2 Display

Statuses and active alarms on display.



<b>A</b>	Display area
BB	Setpoint
⚠	Alarm signals
▭	Moving Deflector Control function active
🌀	Active ventilation function
🔥	Heating / Cooling (Cannot be used)
❄️	Operating mode Cooling active
🔥	Operating mode Heating active
A	Automatic function active
🌙	Night function active

#### 4.1.3 Keys functions



<b>A</b>	Keys area
+	Up key
-	Down key
⏻	This can be used to switch the unit on or off
▭	Allows you to activate the Moving Deflector Control function
🌀	Allows you to control ventilation speed
🔥/❄️	This can be used to select the operating mode (Cooling or Heating) or Autochangeover
A	Enables the Automatic function
🌙	Enables the Night function

## 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

- ▶ press  for 2 seconds
- ▶   appears on the screen.
- ▶ The device turns on.

### 4.2.2 Put on stand-by

#### To put on stand-by

- ▶ press  for 2 seconds
- ▶   appears on the screen.
- ▶ The control goes out.

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

### 4.2.3 Set room temperature

#### To set-up the temperature

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

- ⚠ The room temperature set-point can range between 16 and 31 °C.
- ⚠ Setting temperatures too low or too high is detrimental to health and an unnecessary waste of energy.

### 4.2.4 Heating operation

#### To select the Heating operation

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

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

### 4.2.5 Cooling Operation

#### To select the Cooling operation

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

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

### 4.2.6 Automatic change of heating/cooling operation mode

- ▶ press  until the  symbol appears on the display
- ▶ the symbol of the active operation mode appears
- ▶ the device independently decides the correct mode of operation

- ⚠ Changing from one operation mode to the other involves a waiting time of 40 minutes.

### 4.2.7 Selection of ventilation power level

#### To adjust the power level

- ▶ press the  key in sequence
- ▶ L1 minimum power level
- ▶ L2 average power level
- ▶ L3 maximum power level
- ▶ L4 booster power level
- ▶ When the  symbol is pressed, the letters L1/L2/L3/L4 appear for a few seconds, indicating which ventilation power level the device is at

- ⚠ Each power level corresponds to a matched ventilation speed.

- ⚠ When the wall control is connected to the appliance, the on-board display shows the ventilation power level via the  symbol. Refer to the "Ventilation speed regulation" [p. 11](#) section for more guidance.

### 4.2.8 Functioning in automatic mode

- ⚠ The power output level and ventilation speed are adjusted independently according to the temperature difference between the set temperature and the temperature detected in the room.

#### To select functioning in automatic mode

- ▶ press the key 
- ▶ The  symbol on the display indicates that the device is operating in automatic mode.

- ⚠ If automatic adjustment is on, the level and power are automatically selected based on the distance and time to the setpoint.

### 4.2.9 Functions in night mode

#### To select the Night function

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

- ⚠ This mode of operation maximizes the quietness of the appliance, saving electricity and regulating nighttime well-being.

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

- ⚠ This function can be excluded at any time by pressing the button again.

### 4.2.10 Set the key lock

#### To set-up the key locking

- ▶ press  and  at the same time for about 5 seconds  
 appears to confirm key lock.

Pressing any key on the display shows .

- ⚠ Setting the key lock also locks the remote control.
- ⚠ All settings are inhibited by the user.
- ⚠ Repeat the sequence to unlock the control.

## 4.3 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 a period of 30 seconds from the last action, the display turns off.

### 4.3.1 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.

### 4.3.2 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 -2,5°C.  
The setting range is from a minimum of -12.0 °C to a maximum of 12.0 °C.*

### 4.3.3 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  
*By default it is set to -2.*

### 4.3.4 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  
*By default it is set to 50.  
The setting range is from 20.0% to 90.0%.*

### 4.3.5 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  
*By default it is set to 5.  
The setting range is from 1 (min) to 30 (max).*

### 4.3.6 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.*

### 4.3.7 Adjusting the volume

#### To change the volume

- ▶ select 
- ▶ press  to change settings
- ▶ increase or decrease the value with the icons  
- ▶ press  to confirm  
By default it is set to 1.  
The volume setting range is from 00 (min) to 03 (max).

 The volume changes after confirm the modification.

### 4.3.8 Wi-Fi reset

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

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence  
Appears 

- ▶ press 
-  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.

### 4.3.9 Activate Wi-Fi

#### To activate Wi-Fi

- ▶ select 
- ▶ press  to change settings
- ▶ use the   icons in sequence  
Appears 
- ▶ press 
-  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.

## 4.4 Warnings

### 4.4.1 In case of 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 device has been reset.

### 4.4.2 Alarm display on wall control panel

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

 Alarm codes are shown on the on-board display. Refer to the "Visualization of alarms on display" [p. 13](#) chapter for the complete list.

## MAINTENANCE

### 6.1 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.
- ⚠ Handle coolant with care. Leakage of coolant can cause freezing.

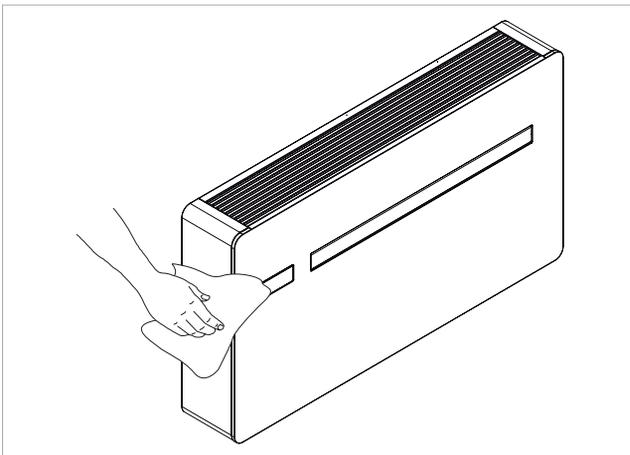
### 6.2 Routine maintenance

The routine maintenance plan includes the following cleaning operations.

#### 6.2.1 External cleaning

Clean the external surfaces with a soft damp cloth.

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



#### 6.2.2 Cleaning the filters

Clean the air filter after a period of continuous use and according to the concentration of impurities in the air, or when you wish to start-up the appliance after a period of inactivity.

- ⚠ The filter is located in the top part of the appliance.

#### 6.1.1 Specific warnings R32

- ⚠ R32 refrigerant gas is slightly flammable and odourless.
- ⚠ Check that there are no sources of ignition in continuous operation (open flames, gas appliances, electric stoves, lighted cigarettes, etc.).
- ⊖ Smoking in the vicinity of the appliance is prohibited.
- ⊖ Using a mobile phone near the appliance is prohibited.
- ⊖ Using leak detectors with halogen lamps is prohibited.

- ⚠ Wait for the components to cool down in order to avoid any burns.

- ⚠ Pay attention to the sharp edges.

#### To extract the filter

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

#### 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.

#### 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

- ⚠ After filter cleaning check if the panel is properly mounted.

- ⊖ It is forbidden to use the device without mesh filter.



### 6.3 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.

### 6.4 Suggestions for energy saving

- Keep filters clean at all times.
- Keep doors and windows of rooms to be air-conditioned closed.
- Avoid direct sun rays.
- Do not obstruct the airflow in and out of the device.

## TROUBLESHOOTING

### 7.1 Troubleshooting table

In the event of a malfunction, please refer to the following table. If, after performing the suggested checks, the prob-

lem is not solved, please contact the authorised technical assistance.

Anomalies	Possible causes	Remedies
The appliance doesn't switch on	No power supply	Check there is power supply (by turning a light on, for example). Check that the thermal-magnetic circuit breaker used exclusively to protect the appliance has not been tripped (if it has, reset it). If the problem repeats immediately, please call the Service Centre and avoid trying to make the appliance work.
	Remote control batteries have run out	Check that the appliance can be turned on using the touch-screen display and substitute the batteries.
The appliance does not cool/heat adequately.	The temperature set is too high or too low.	Check and, if necessary, adjust the temperature setting on the remote control
	The air filter is clogged	Check the air filter and clean it if necessary
	Check that there are no other obstacles to the air flow both inside and outside.	Remove anything that might block the air flow.
	The heating and cooling load has increased (for example, a door or a window has been left open or an appliance has been installed in the room which generates a lot of heat).	Try to reduce the heating and cooling load of the room following instructions below: Cover large windows exposed to sunlight with curtains or with external maskings (blinds, porches, reflecting films, etc.); The air conditioned room must remain closed for as long as possible; Avoid turning on halogen lamps or other high energy consumption appliances such as small ovens, steam irons, hot plates etc.).

### 7.2 Troubleshooting

For the user it is important to distinguish any malfunction or performance levels that differ from the system's standard operating values (see technical specifications). The most common problems can be easily solved by the user by performing certain simple tasks (see the Troubleshooting paragraph), while some system alarms require that you contact the Technical Customer Service.

**⚠** Please keep in mind that any attempt by unauthorised staff to repair the device automatically voids any form of warranty.

#### 7.2.1 Functional aspects not to be interpreted as faults

- The compressor restarts 3 minutes after the last stop. This delay protects the compressor from too frequent activations.
- During Heating operation, air output may be delayed a few minutes after compressor activation. This delay prevents the possible delivery of cold air by allowing the unit to run at capacity and deliver warm air into the room.

#### 7.2.2 Open CP contact

If the CP contact is not closed, the device does not start and the CP alarm appears on the display.

### 7.3 Maximum condensate collection level warning

In heating operation, condensate drains free through the appropriate pipe.

In case of an OF alarm, check that the condensation drain line is not bent or obstructed to prevent water from draining out.

In cooling or dehumidification function, in extreme operating condition (high temperature and high humidity) the unit may not be able to automatically dispose of the produced condensate, in this case the display will show OF.

The OF sign, is not an error, but an alarm indicating that the water has reached the maximum level of the condensate drip tray.

In this case, it is necessary to drain the condensate manually:

- ▶ place a drip pan (not provided) below the condensate drain pipe
- ▶ drain the water using the cap on the condensate drain pipe

- ⚠ If after performing the procedure, the OF alarm remains, you should contact the Technical Service Center.

## 7.4 Use of the appliance

- ⚠ 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 lean against, or worse sit on, the body of the conditioner, this would damage the appliance.
- ⚠ Do not move the horizontal air outlet flap manually. Always use the remote control to perform such operation.
- ⚠ In the event of water leaks, turn off the appliance and disconnect the electric power supply. Call the nearest service centre.
- ⚠ During heating mode, the conditioner eliminates periodically any ice formed on the external battery. In such situation, the machine keeps on working, but it does not dispense warm air to the room. This phase can last from 3 up to maximum 10 minutes.
- ⚠ The appliance must not be installed in rooms where explosive gases develop or where there are humidity and temperature conditions that exceed the maximum levels reported on the installation manual.
- ⚠ Clean the air filter regularly as described in the specific paragraph.

## TECHNICAL INFORMATION

### 8.1 Operating limits

#### Operating limits

	u.d.m.	Heating	Cooling
Minimum room relative humidity	%	15	15
Maximum room relative humidity	%	80	80
Minimum room air temperature	°C	-10	-10
Maximum room air temperature	°C	50	50

### 8.2 RED Compliance Statement

#### Compliance with 2014/53/EU Radio Equipment Directive (RED).

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency

Frequency range (MHz)	Max. Transmit Power
2400-2472	<20

Hereby, the company declares that the device is in compliance with Directive 2014/53/EU.

⚠ For declarations of conformity, certificates and other certification details please consult the website.

bands used and the maximum RF transmit power of the product for sale in the EU:

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

### 8.3 Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment.

All guidelines must therefore be allowed at all times to ensure safe use of the equipment.

### 8.4 FCC Declaration of Conformity

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To avoid the possibility of exceeding the exposure limits, maintain a distance of not less than 0.5 cm between the antenna and the person during normal operation.

⚠ This equipment complies with the limits for a Class B digital device, pursuant to FCC Rules.

⚠ The limits are designed to provide reasonable protection against harmful interference in a residential installation.

#### 8.4.1 Warnings

⚠ This wireless device uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

⚠ This device must not be placed or used in conjunction with any other antenna or transmitter.

#### 8.4.2 Notes on WiFi communication

This equipment complies with the limits for a Class B digital device, pursuant to FCC Rules.

In case of interference:

- increase the distance between the object and the receiver
- contact immediately an authorized technical support center or qualified staff

**EU countries intended for use**

The version of this device is intended for home and business use in Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey and the United Kingdom and is also authorised in the EFTA Member States: Iceland, Liechtenstein, Norway and Switzerland.

**EU countries not intended for use**

None.



**innova**

INNOVA S.r.l.  
Via I Maggio 8 - 38089 Storo (TN) - ITALY  
tel. +39.0465.670104 - fax +39.0465.674965  
info@innovaenergie.com