BUTLER PRO TOUCH

Warnings

⚠ This instruction is an integral part of the booklet of the appliance on which is installed. Please consult this booklet for general warnings and fundamental safety rules.

⚠ For a rapid and right assembly of the components follow carefully the sequences described in the various sections.

Description

Butler Pro Touch is the complete system control unit with a 10" display.
It can be used to set and manage the entire system using smartphone, tablet or computer through an Internet connection.

Functions

Integrated functions:
- Control of up to 10 independent climate zones and 31 elements
- Management of the radiant heating system and radiators
- Room temperature control
- Summer and winter climate control
- Daily and weekly time programming of individual zones
- Regulation and programming of air renewal and purification
- Regulation and programming of domestic hot water production
- Customisable comfort profiles: temperature, fan speed, etc.
- Display of heat pump consumption (with Energy Monitor kit installed, optional accessory)
- Remote management via app
- Remote service management for displaying and modifying functional parameters

Connectivity:
- Ethernet port for connecting to the Internet via the router in the installation
- 3 RS485 ports (Modbus RTU) for connecting devices on a serial line via AWG22 two-wire shielded cable

Coding

ESW736II: Butler Pro Touch

Accessories to be ordered separately

L01063II: Pre-installation box for built-in fully aligned with the wall

GR1128II: 12 V DC power supply

Standard supply

The accessory is supplied as follows:
1 Butler Pro Touch
1 Instruction sheet
3 Circuit-closing resistors

⚠ The pre-installation box for built-in installation aligned with the wall of the device is supplied separately.

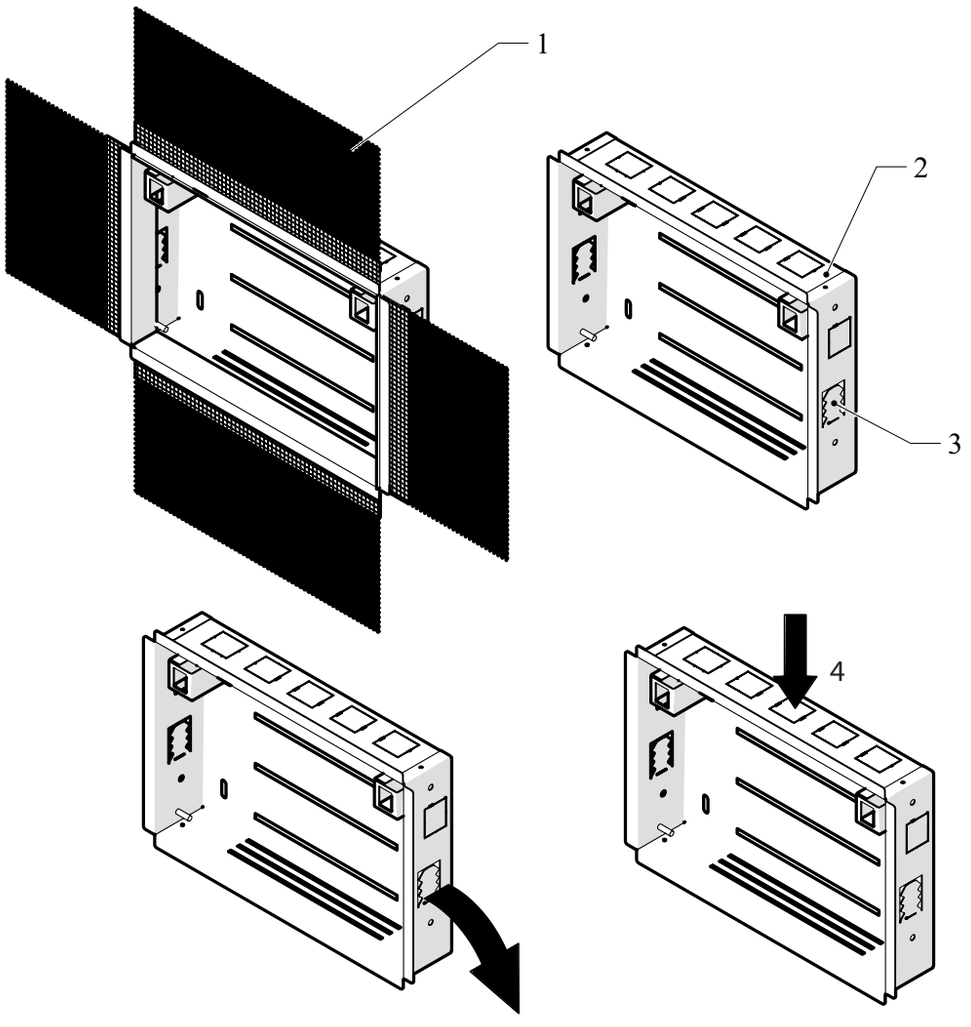
Mounting

Butler Pro Touch must be installed:
- on internal walls
- at a height of about 1,5 m from the floor
- away from doors or windows
- away from heat sources (heaters, convectors, stoves, direct sunlight)

⚠ The pre-installation box for built-in installation aligned with the wall of the device is supplied separately.

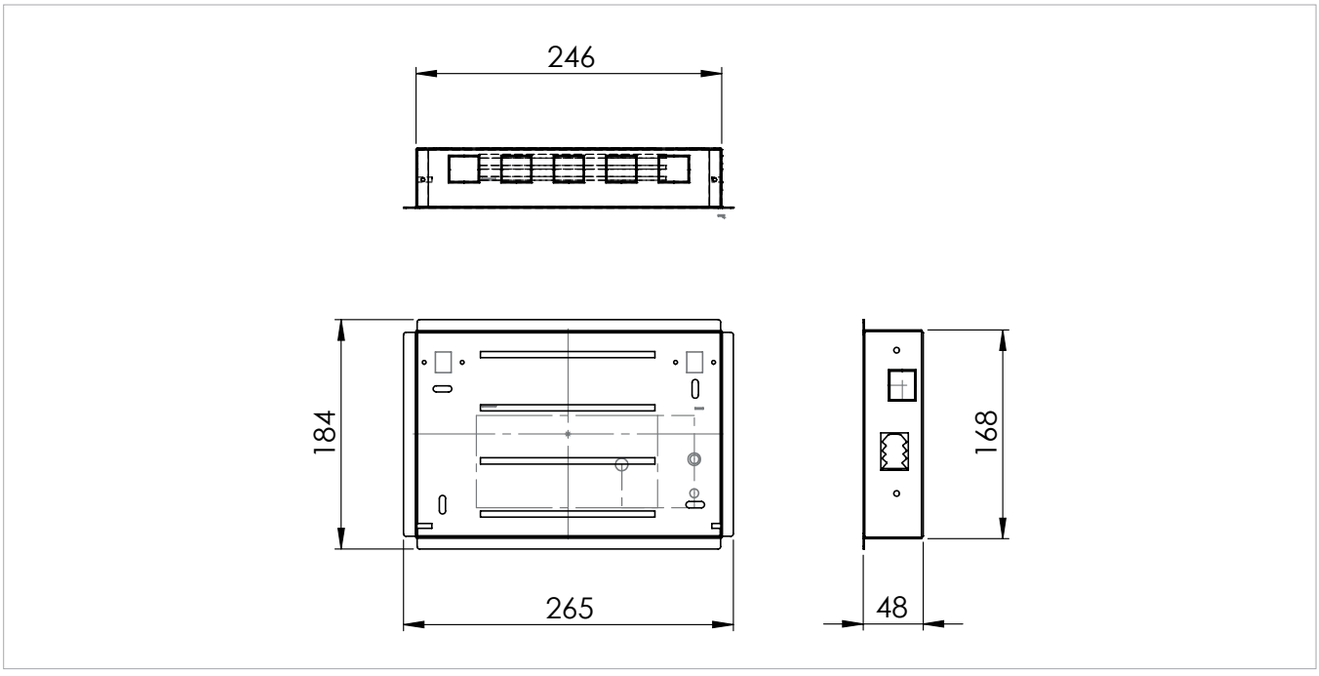
Pre-installation box for built-in fully aligned with the wall

1.	Plaster holder mesh
2.	Pre-installation box
3.	Anchor bolts
4.	Electric connections



The pre-installation box is supplied complete with:
- anchor bolts to anchor the formwork to the wall
- plaster holder mesh for built-in installation aligned with the wall

Installation arrangement



– drill a hole in the wall to install the pre-installation box

⚠ Make sure that the wall is not crossed by pipelines, load-bearing construction elements or power lines.

⚠ During the installation of the box, keep the edge of the plaster-holder mesh levelled with the finished wall.

Installation

– open the anchor bolts
– fully insert the pre-installation box into the space provided
– fix into the wall properly the pre-installation box

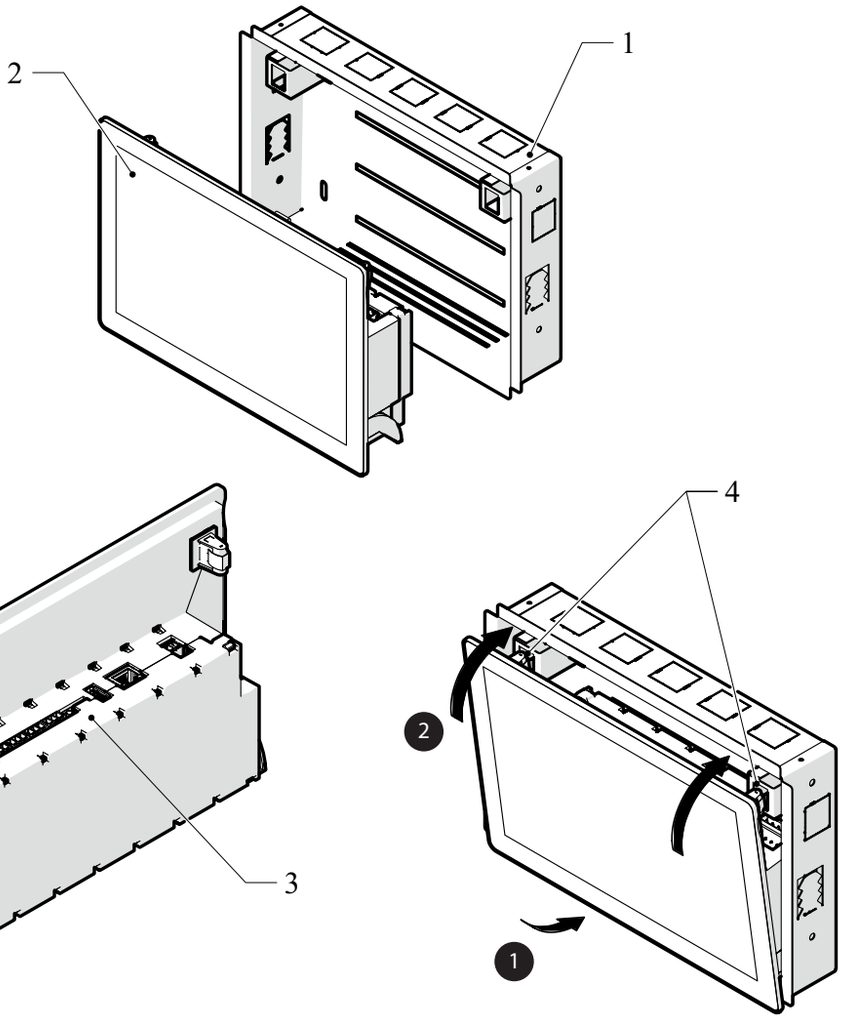
⚠ Make sure that the metal casing does not deform during installation.

⚠ It is necessary, for right functioning of the device, that during the whole installation phase the working space remains clean.

⚠ Regularly clear away waste offcuts, debris or dirt in the metal casing.

Display

1.	Pre-installation box for built-in fully aligned with the wall	**3.**	Connection terminal block
2.	Display	**4.**	Closing hook



– establish the electrical connections
– hook the display to the formwork

Electric connection

Connection terminals

COM 1	Heat pump connection
COM 3	Accessory connection (Energy Monitor, etc.)
COM 2	Terminal network connection (fan coil units, zone controls, etc.)
L1	Status LED
OUT1	Potential-free output
OUT2	Potential-free output

IN1	Potential-free input
IN2	Potential-free input
LAN	Local network Ethernet connection
SRV 1	Not used
L2	Not used
USB	Not used

Description of contacts

1 - 2: 12-24 DC < 5 W power supply connection.

17 - 18: heat pump connection.

14 - 15: terminal network connection (fan coil units, zone controls, etc.).

11 - 12: accessory connection (Energy Monitor, etc.).

20 - 21: not available.

3 - 4: potential-free output contact connection.

5 - 6: potential-free output contact connection.

7 - 8: potential-free input.

7 - 9: potential-free input.

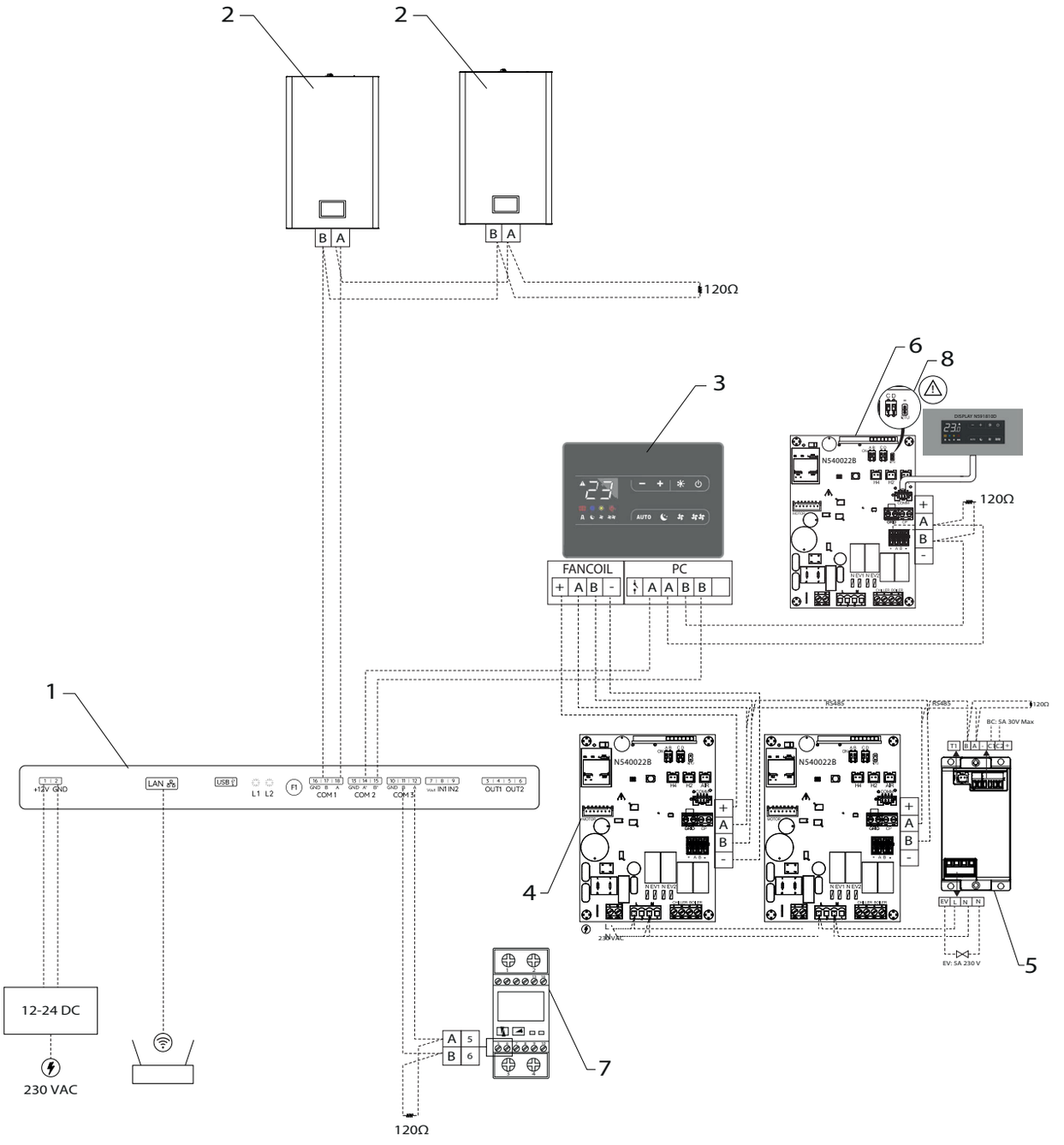
Meaning of the LEDs

The LED flashes to indicate its status:

- **STATUS OK**: 1 green flash per second, product in operation
- **STATUS ERR**: 2 quick green flashes every 5 seconds, error concerning the product
- **STATUS RST**: 4 quick green flashes every 10 seconds, product partially reset
- **STATUS RSFULL**: 3 quick flashes every 10 seconds, product completely reset
- **STATUS RSTNET**: 2 quick green flashes, network reset

Connection diagram

1.	Butler Pro Touch	**5.**	MZS single zone module
2.	Heat pump	**6.**	Electronic board on the machine
3.	Wall-mounted thermostat series	**7.**	Energy monitor
4.	Terminal electronic board	**8.**	Jumper RTU



⚠ In case of connection with kit ESE645 - ESE648 - ECA644 - ECA647 must be positioned the RTU jumper provided.

⚠ Only Butler Pro Touch is supplied in this version. The installer is responsible for any further components.

Compatibility for terminal controls and generators

Generators (heat pumps, VMC)	
STØNE	all versions
eHPoca	Only versions with INN-RDC-02 control
3in1	
3in1 incasso	
Terminals (fan coils)	
Controls on the machine	ECA644II
	ECA647II
Wall-mounted control panels	EDA649II
	EDB649II
Electronic boards	ESE645II
	ESE648II

Connection

For the connection:

- remove a portion of the insulation from the end of the cable
- follow the indication on the connection diagram
- insert the cable into the spring terminal
- insert the cable completely

⚠ The spring terminals allow the connection of rigid or flexible cables with sections from 0.2 to 1 mm^2. For cables provided with lugs with plastic collar the maximum section is reduced to 0,75 mm^2.

For RS485 serial connection:

⚠ Use a two-core cable suitable for RS485 serial connection with a minimum cross-section of 0.35 mm^2.

⚠ Keeping the bipolar cable separate from power supply cables.

⚠ Chase out the wall in order to minimize the length of the leads.

⚠ Complete the line with the 120 Ω resistance.

⛔ It is forbidden make "star" connections.

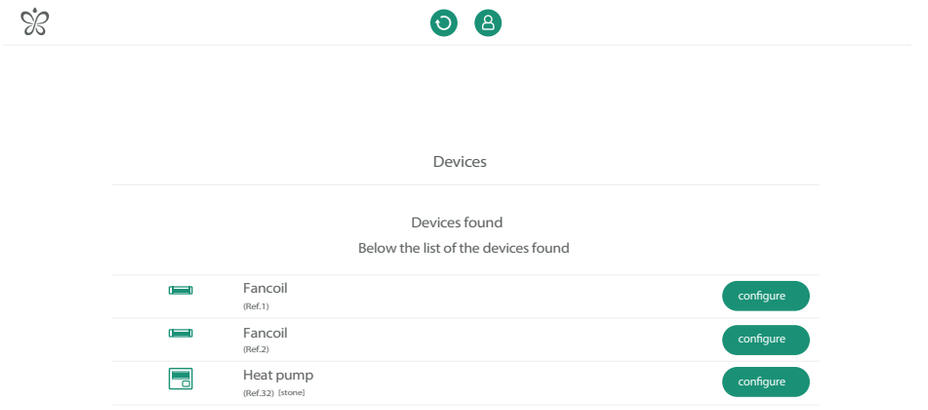
Set-up

To add a device

⚠ Check that the Modbus addresses of the units are set correctly before proceeding with the configuration of the fan coil units. Refer to the specific manuals of the devices.

- select Automatic search
- press Start
  The system searches for connected compatible devices.

Equipment is divided into two types: generators and terminals. For identification, refer to the table "Abbinamento prodotti" 7.

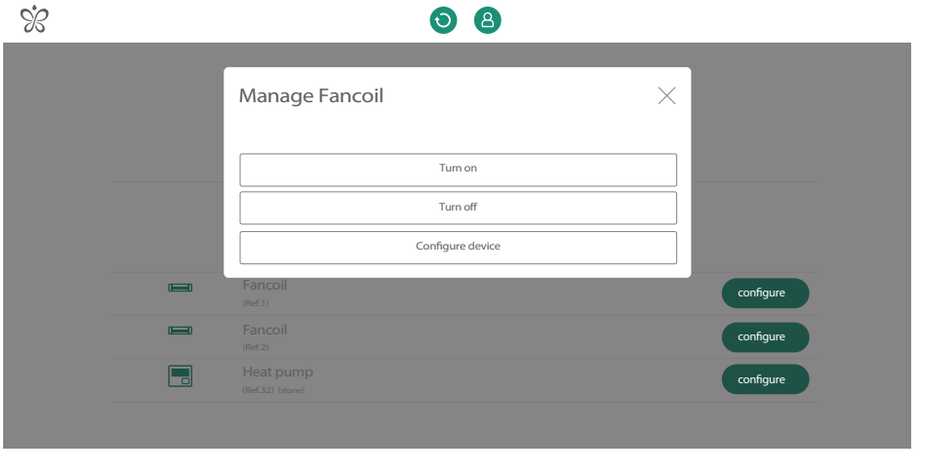


Generator configuration

- press Configure
- enter the name you want to give the device
- save
  The device is configured
- press OK to return to the list of devices to be configured
- repeat the operation for each device

Terminal configuration

- press Configure
  The Manage Fan Coil Unit screen will appears. This can be used to select On or Off and view which of the fan coil units you are configuring.



After identifying the device

- select Configure device to continue
- select the room where the device is located or add a new room
- enter the name you want to give the device
- save
  The device is configured
- press OK to return to the list of devices to be configured
- repeat the operation for each device

⚠ Use on/off to visually identify the device you are configuring.

⚠ All added devices are matched to the default Calendar with Comfort setting by default.

⚠ (Ref.1) refers to the Modbus address of the set device.

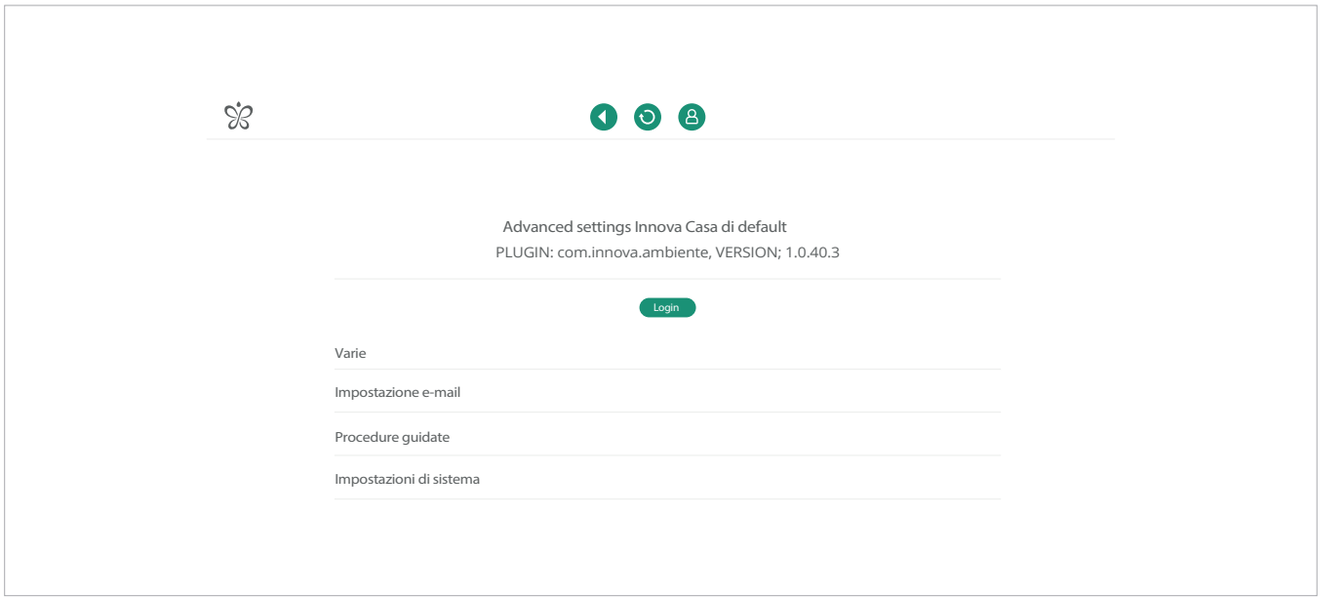
Configuration

You must log in as an installer to carry out the configuration.

Access to Advanced settings

From the Settings menu
- select Advanced settings
- login
  Login *as installer*

Credentials
- Username: setup
- Password: innova



Generators working temperature configuration

⚠ Refer to the manual **InnovApp** for how to search for devices connected via WiFi.

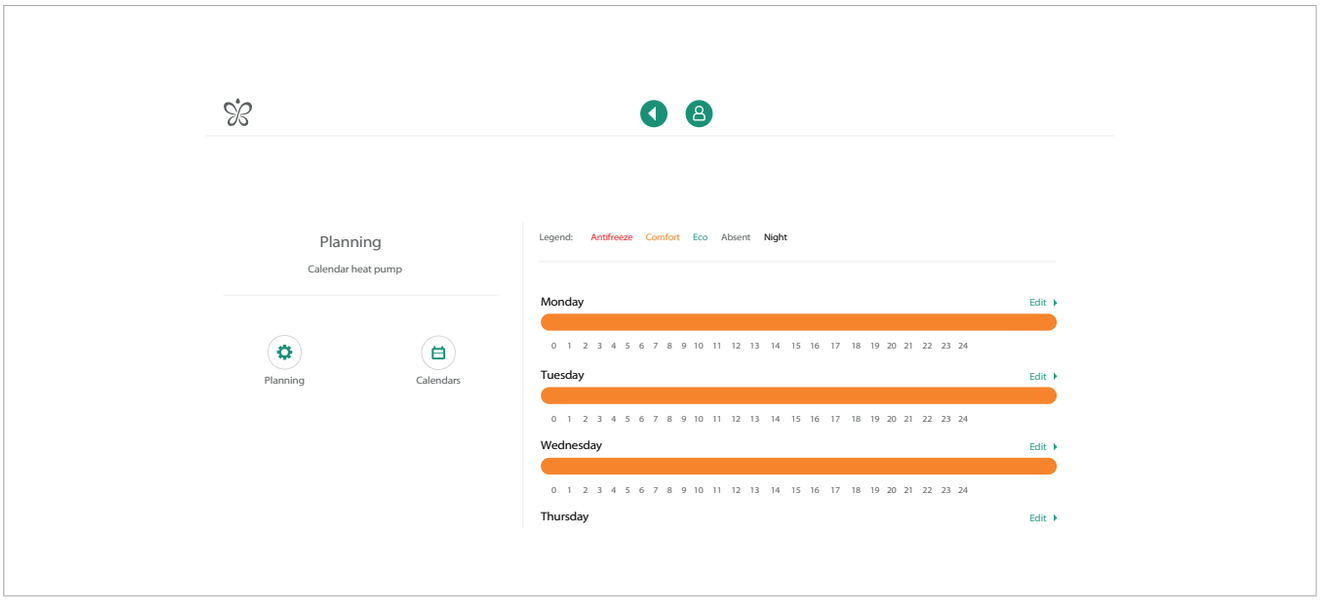
Creating a new calendar

⚠ A specific work schedule must be created in the presence of a heat pump.

⚠ All added devices are matched to the default Calendar with Comfort setting by default.

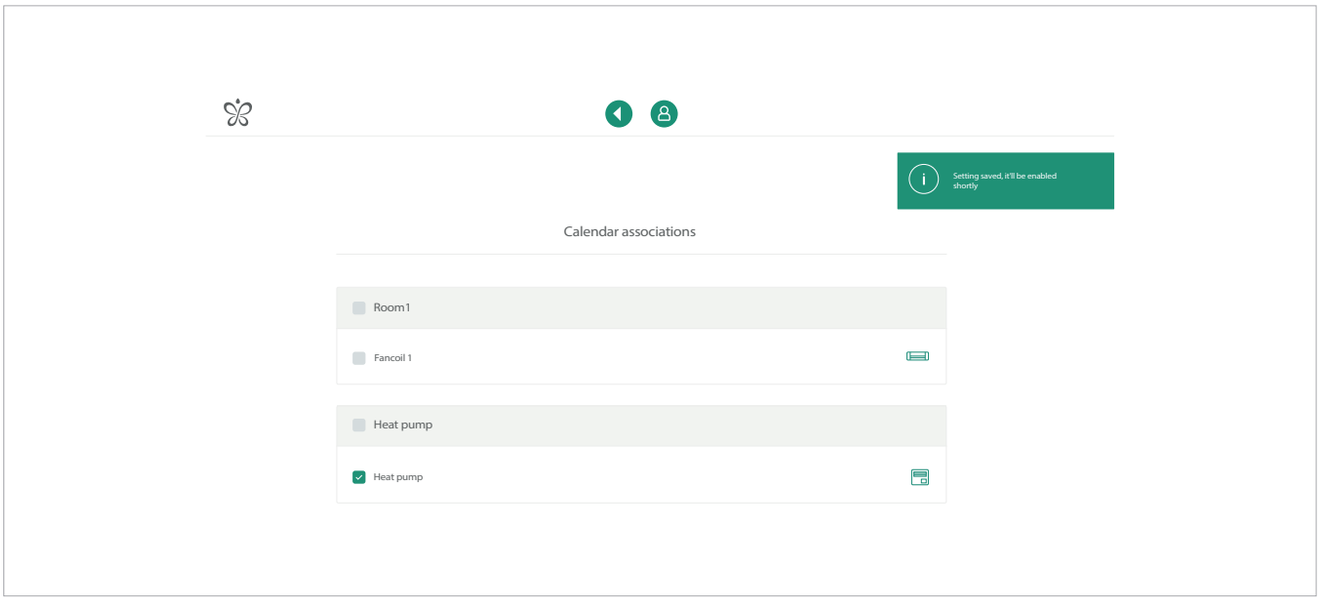
On the home screen
- select Programming
- select New calendar
- enter the name of the new calendar
- save

Direct access to the calendar programming screen



Matching the calendar to the device

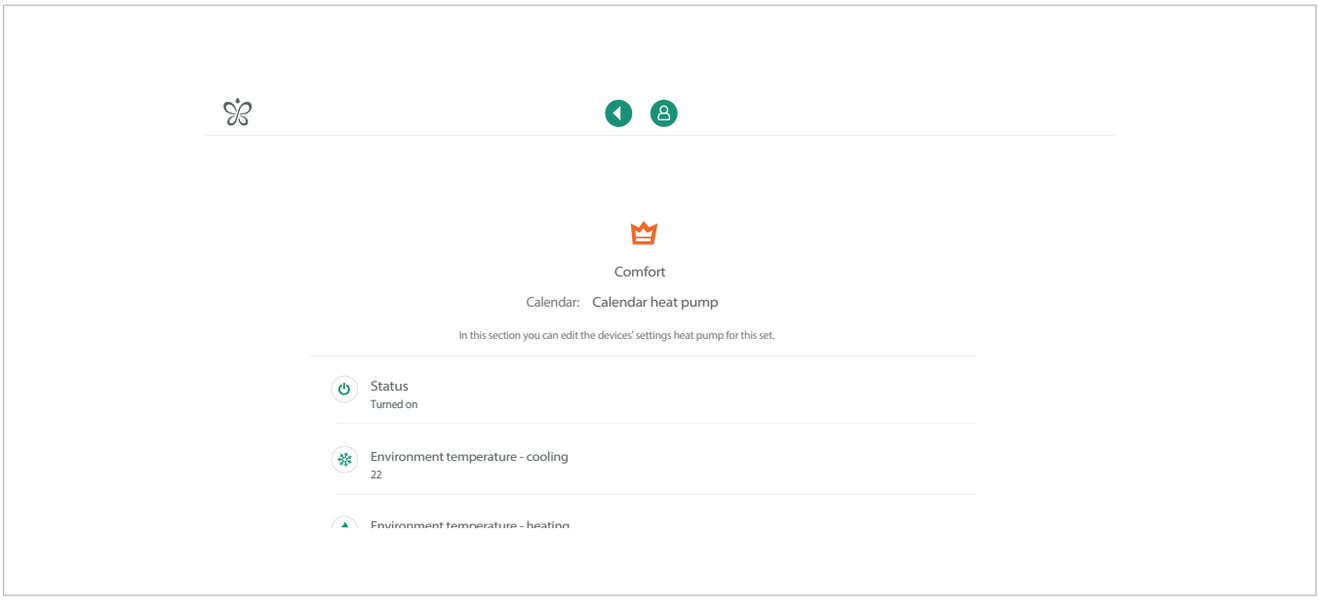
- select settings ⚙
- select Installations, rooms and associated devices
- select the device to be associated



Temperature configuration

- go back to the calendar programming screen
  On the calendar programming screen

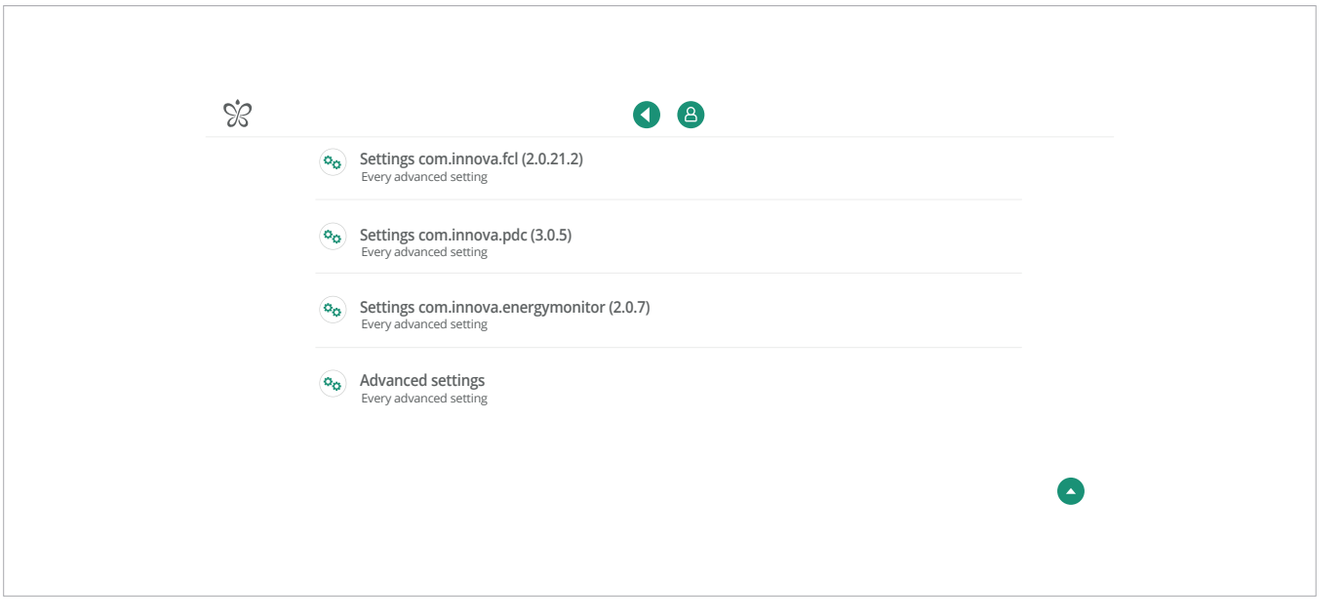
- select the Comfort setting
- configure working temperatures
- press the icon of the temperature you want to configure
- select the correct temperature from the list



Energy Monitor Configuration

On the home screen

- select Settings
- select Settings com.innova.energymonitor
  This takes you to the Advanced Energy Monitor Settings screen.



Categories

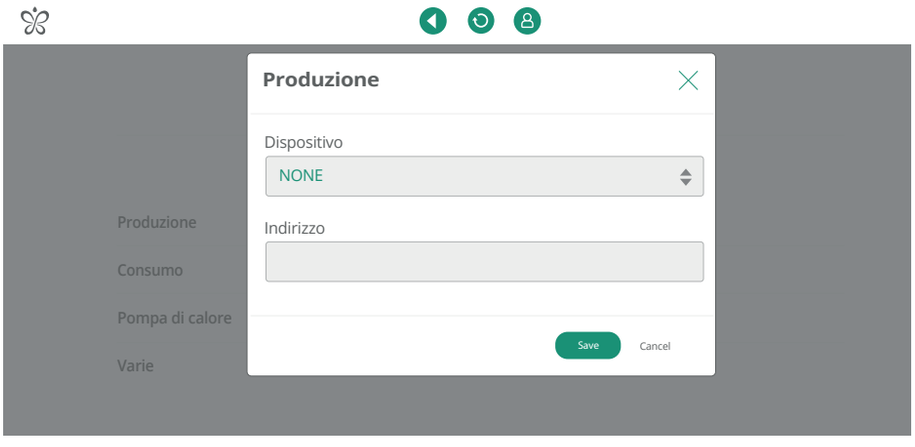
Production: Associate an Energy Monitor to the production of energy of the house (eg solar panels)

Consumption: Associates an Energy Monitor to the general consumption of the house (utilities, etc...)

Heat Pump: Associates an Energy Monitor to the consumption of the heat pump

⚠ Configure each section by setting the type of Energy Monitor used and its usage.

Configuration



- select category
- set the type of Energy Monitor
  Select a type from the proposed list.
- set the modbus address
- save to confirm the configuration
  This returns you to the Advanced Energy Monitor Settings screen.

⚠ Energy Monitor modules are supplied from the factory with address 001. A maximum of three modules can be connected to the same Butler. In this case it is necessary to configure different Modbus addresses (e.g. 002, 003, ...) for the various modules.

⚠ Refer to the accessory manual for Modbus address configuration.

Types of Energy Monitors:

None: No Energy Monitor installed for this category.

SDM230: EMM - Single Phase Energy Monitor

SDM630: EMT - Three Phase Energy Monitor

SDM630_L1: Three Phase Energy Monitor, only the first phase L1 is used for this category

SDM630_L2: Three Phase Energy Monitor, only the first phase L2 is used for this category

SDM630_L3: Three Phase Energy Monitor, only the first phase L3 is used for this category

Conclusion

Finish the configuration procedures:

- log out from Advanced settings

⚠ For all other settings, refer to the manual **InnovApp**.