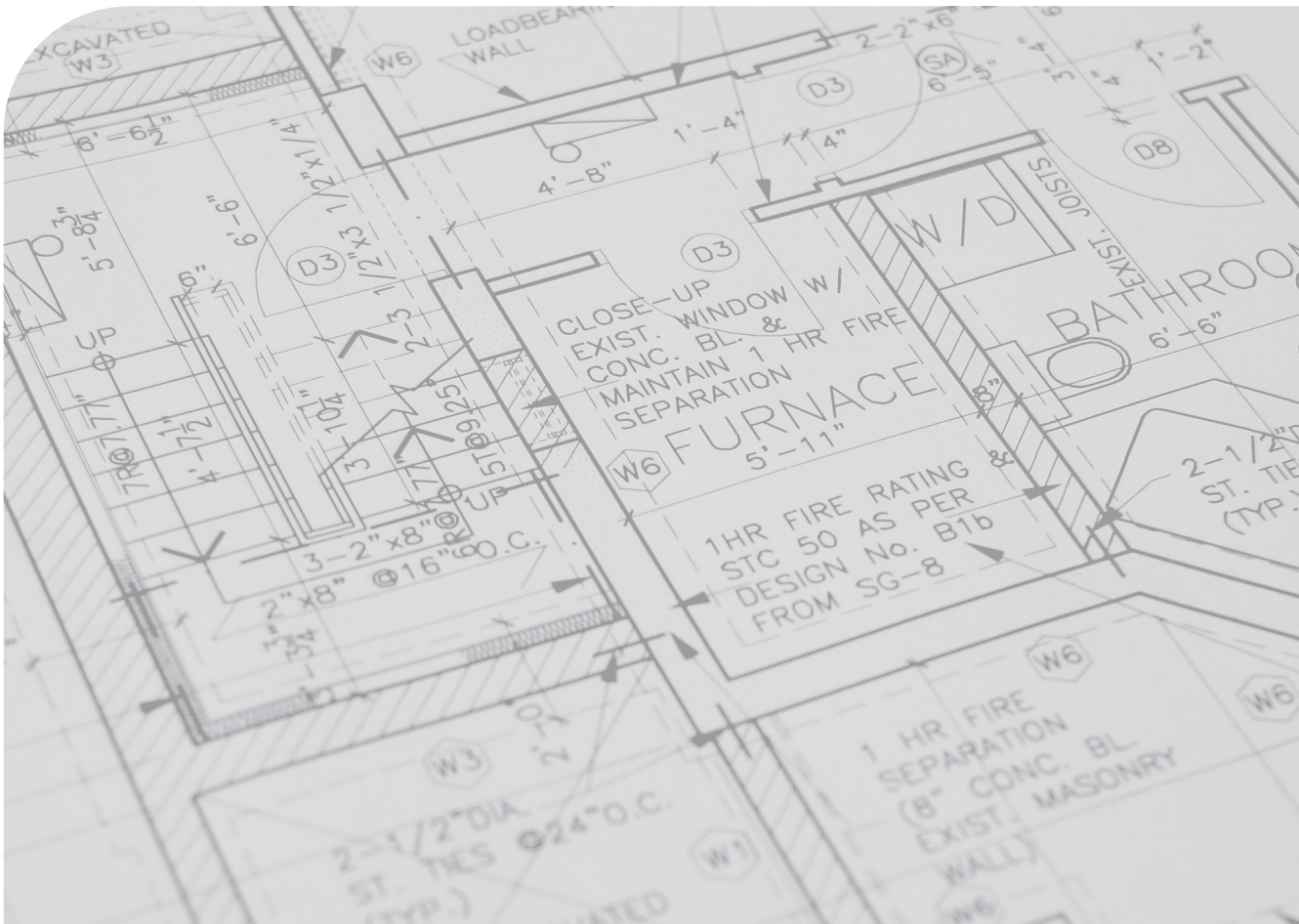
IMMERGAS

USER'S MANUAL

NEXIS

Nexis control panel (black)
Code 3.035812
Nexis control panel (white)
Code 3.035829

Instructions and recommendations for the user



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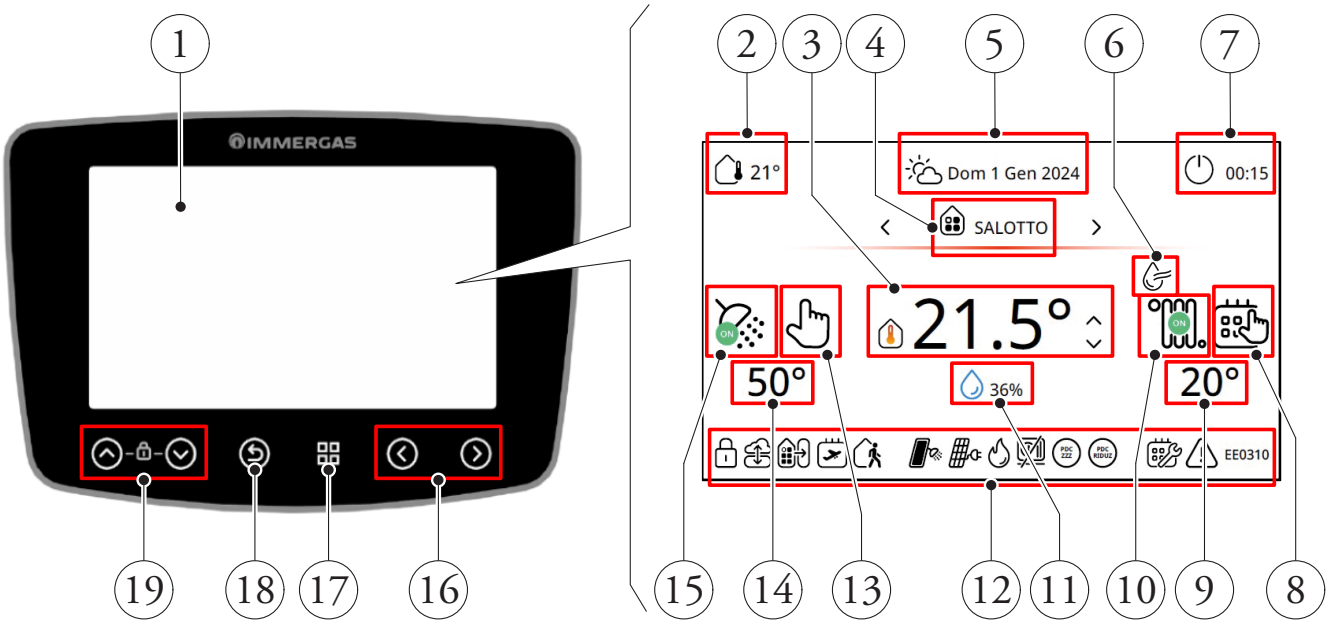
1 CONTROL PANEL

1.1 HOME



1

Key (Fig. 1):

1 - Display.
2 - Outdoor temperature display.
3 - Room temperature of the displayed zone.
4 - Name of the displayed zone.
5 - Current date display.
6 - "Dehumidifying in progress" icon.
7 - View current operating mode and date.
8 - View "zone mode".
9 - Central heating flow set of the displayed zone.
10 - "Generator status and zone request" display.
11 - Zone humidity value display.
12 - View machine status icons.
13 - View "DHW mode".
14 - View "DHW set".
15 - DHW status display.
16 - Menu and zone change horizontal scrolling buttons.
17 - Menu button (Confirm).
18 - Back Button (Cancel).
19 - Menu and temporary manual editing up and down scrolling buttons (press the buttons at the same time to lock/unlock the keyboard).

1.1.1 System Use

When switched on, the type of panel is displayed.
When switched on, the device will go to the status it was in before it was switched off.
The operating mode in use is indicated by its icon at the top of the display (Pos. 7, Fig. 1) and is unique for all zones. By pressing any button, the pushbutton panel lights up for a few seconds; in this way it is activated and ready to receive the subsequent commands. Depending on the system's configuration, the main screen displays various information regarding the system itself, amongst which:

Symbol	Description and operation
	Identification icon of zone controlled by Remote Panel (Temperature Humidity Probe or Remote Panel).
	Keyboard lock active
	Control from cloud on
	Control from external domotics on
	Scheduled maintenance
	Wi-Fi connection
	Zone temperature value
	Zone humidity value
	Zone mode (Off, Manual, Program, Temporary manual)
	
	
	Generator mode and zone heating/cooling request in progress
	
	
	Dehumidifier in progress
	Anomaly present
	Generator mode in stand-by
	DHW enabled/in progress/"Boost"
	
	

Symbol	Description and operation
	Holiday program
	"Away" function on
	Active photovoltaic function
	Compressor on
	Heat pump disabling
	DHW in manual/program/temporary manual mode
	
	
	Heat pump power reduction on
	"Silent mode" on
	Lower bar machine status icons
	
	
	
	
	
	
	
	
	
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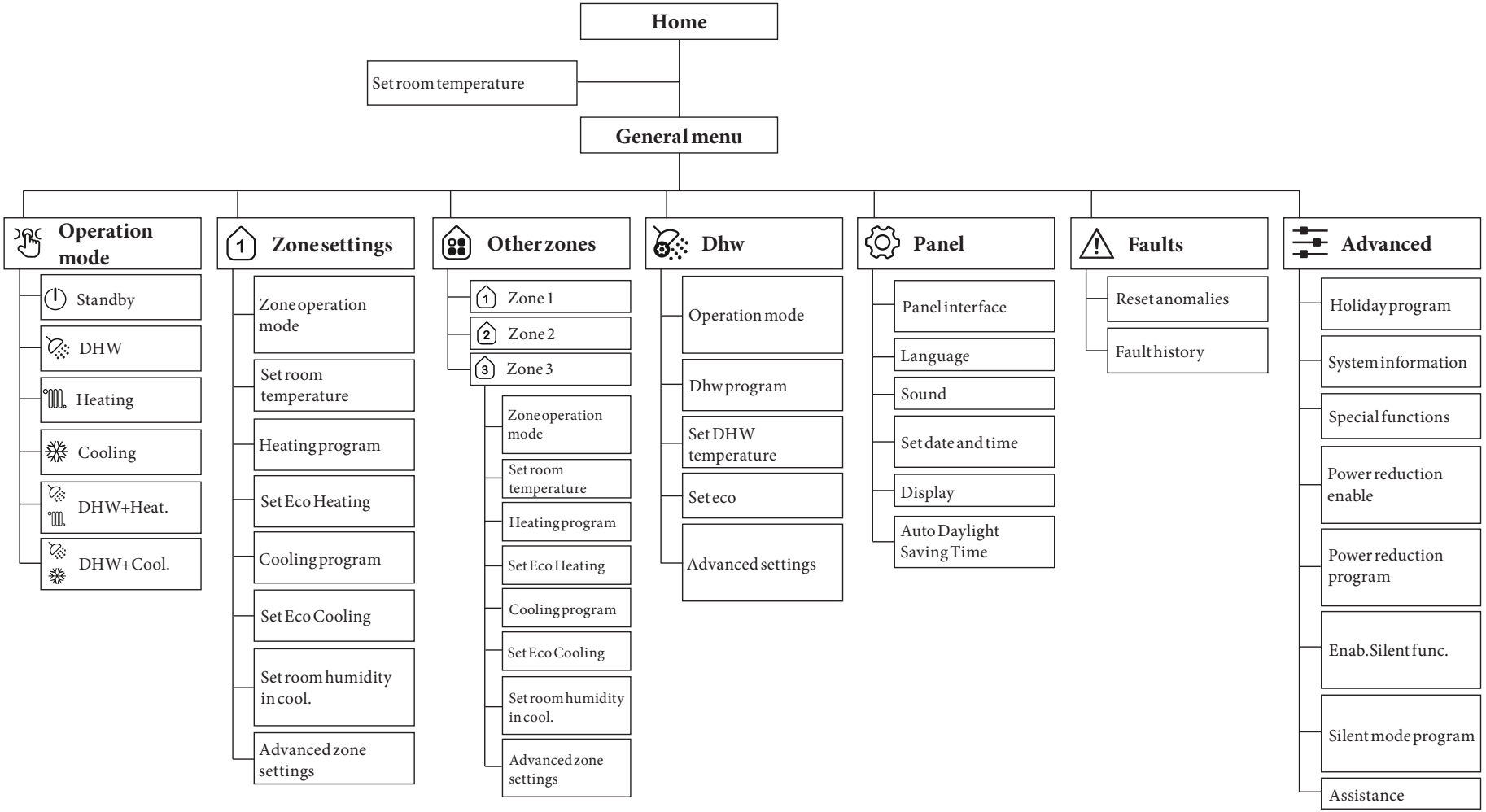
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1.2 GENERAL MENU

Press the button on the "Home" page to access the "General menu". Use the up/down scroll buttons / to scroll the menu functions and press the button to access the selected submenu.

Symbol	Title	Description
	**Operation mode**	Allows you to select the desired operating mode.
	**Zone settings**	Allows you to set the desired parameters for the Zone assigned to the panel.
	**Other zones**	Allows you to set the desired parameters for other Zones.
	**Dhw**	Contains all the settings of the domestic hot water circuit.
	**Panel**	Contains the panel settings.
	**Faults**	Allows you to view the detected faults and the log.
	**Advanced**	Grants access to the advanced functions of the appliance.

1.3 OPERATION MODE

Select the desired operating mode by scrolling within the panel using the up/down scrolling buttons / . Press the button to confirm the selected mode.

Operating mode	Description	DHW	Cooling	Central heating	Protection function (antifreeze, ...)
	Standby	Disabled	Disabled	Disabled	Activated
	Dhw	Enabled	Disabled	Disabled	Activated
	Heating	Enabled	Disabled	Enabled	Activated
	Cooling	Disabled	Enabled	Disabled	Activated
	DHW + Heating	Enabled	Disabled	Enabled	Activated
	DHW + Cooling	Enabled	Enabled	Disabled	Activated

The Anti-legionella function is NOT active in the following modes: Off, Standby and Holiday mode active.

1.4 ZONE SETTINGS

1.4.1 Zone operation mode

Use the up/down scrolling buttons / to select the desired operating mode among those available:

- **Auto**

Room temperature is controlled automatically by the system depending on the value set in the time slots set in the calendar; outside of these time slots, room temperature is controlled depending on the value set in **Set Eco Heating** (see paragraph 1.4.4) or **Set Eco Cooling** (see paragraph 1.4.4).It is nonetheless possible to set a value different from that scheduled by means of "4".

- **Man**

Room temperature is controlled by the system exclusively depending on the value set in **Set room temperature** (see paragraph 1.4.2).

- **Off**

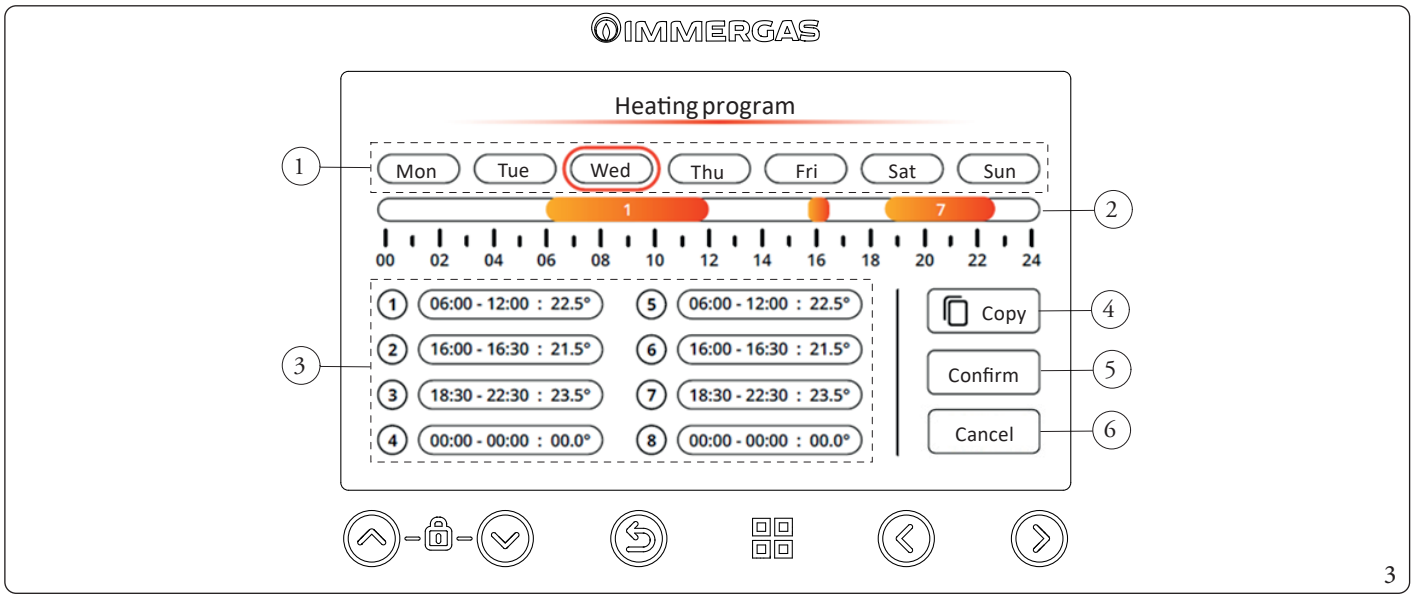
No set room temperature, the room is only protected against freezing.

1.4.2 Set room temperature

Once the submenu has been selected, click the key to enter editing. Use the up/down scrolling keys / / to edit the desired temperature value: in **Auto** mode it is also possible to set how long the setting will be maintained or whether to terminate it immediately. Confirm the change by pressing to confirm or undo the change by pressing .

1.4.3 Heating program

The page allows the weekly and daily programming of the system to be displayed and set.



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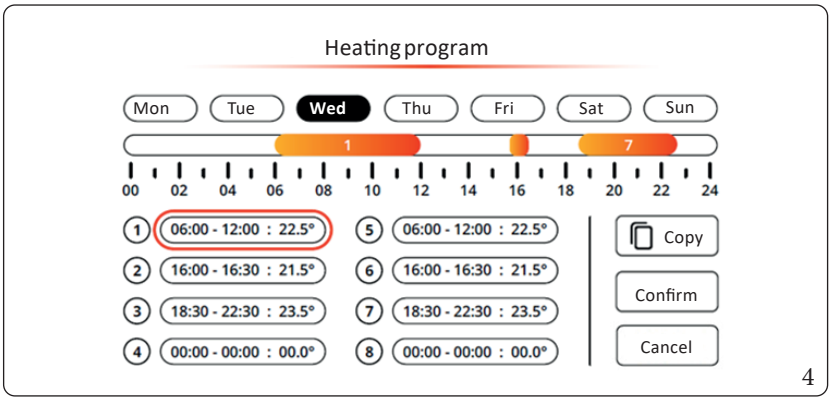
Key (Fig. 3):

1 - Day of the week selection box.
2 - Graphic display of hourly programming.
3 - Programming time slots.
4 - "Copy" button.
5 - Key "Confirm".
6 - Key "Cancel".

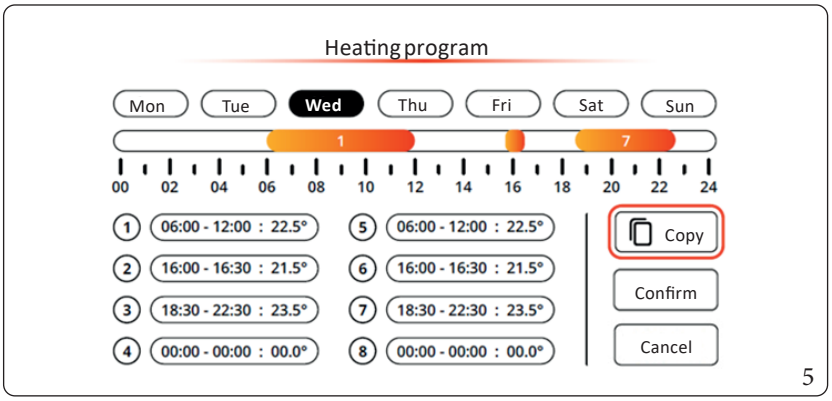
The vertical scroll buttons / and horizontal scroll buttons / allow you to navigate the page.Moving the cursor within the weekday box displays the daily schedule for the last selected day.
When the cursor leaves the day bar, the selected day is highlighted and switching does not change the start and end fields (if from time slot 5 I switch to Wednesday, going back to the time slots the cursor will automatically go back to 5).

With the cursor on a time slot (Fig.4), the button activates the "**edit time slot**" function, allowing the daily schedule to be changed by using the vertical scroll buttons / to select the switch-on and switch-off time and the required temperature.



4

With the cursor on a day, the button selects the desired day and moves the cursor to "copy" (Fig. 5).
With the cursor on "copy" the button switches to "**copy programming**" mode (the key is highlighted and the cursor goes to the current day, considered the copy source).



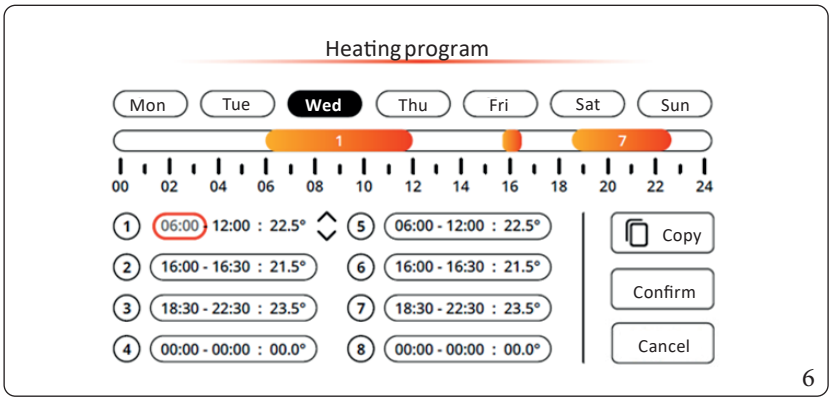
5

Press the button with the cursor on "Confirm" (Ref.5 Fig. 3) to confirm any changes set and return the cursor to the last selected day.
Press the button with the cursor on 'undo' (Ref.6 Fig. 3) to delete any changes set and return the cursor to the last selected day.

- **Edit Time Slot**

In the "**Edit Time Slot**" mode, the horizontal scroll buttons ⟨ / ⟩ allow you to select start time, stop time and temperature value (Fig. 6).

With the up/down scrolling buttons ∧ / ∨ you may edit the values inside the selected field; the graphical display of the schedule (Ref.2 Fig. 3) will update ace cordingly.
Press the ⏻ button to exit "**Edit Time Slot**" mode. The cursor goes back to the original time slot without confirming any changes.If you continue to press the key, the panel goes back to the "Home" page (Fig. 1).

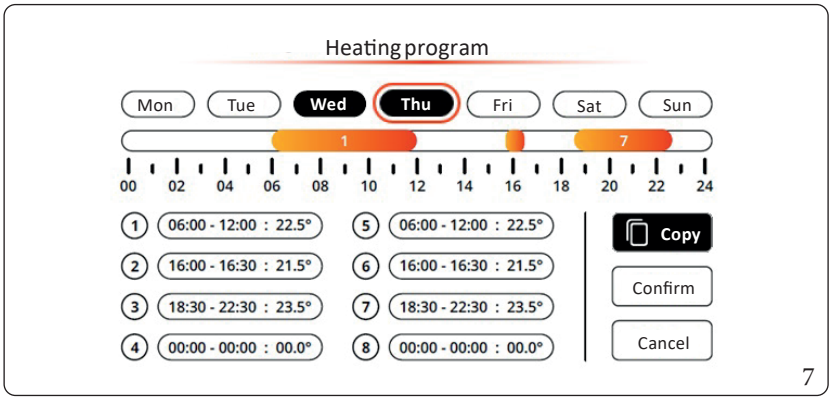


6

N.B.: it is not possible to move the cursor away from the time slot while being edited.
N.B.: the time slot value is only present if the request from room temperature probe or ambient adjustment are enabled.

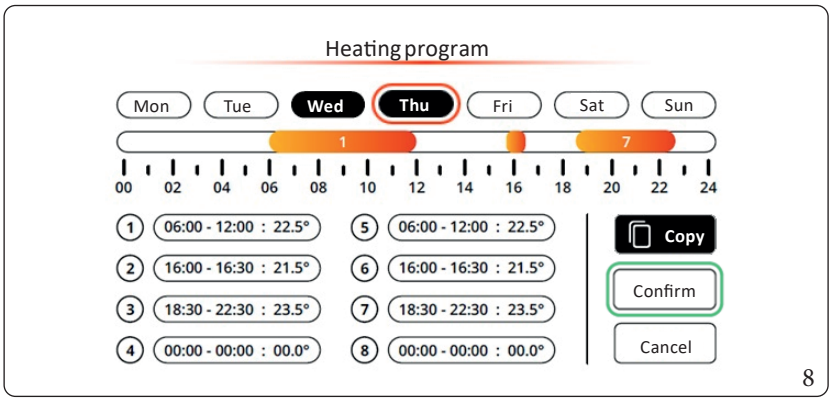
- **Copy Program**

With "**copy program**" mode active, use the horizontal scroll buttons ⟨ / ⟩ to select the target days on which to copy the source program (copied from the last day of the week selected before clicking on the 'copy' command) (Fig. 7).



7

Once the target days have been selected, move the cursor to "Confirm" (Ref.5 Fig. 3) and click the ▦ button to confirm the changes set and exit the "**Copy Program**" mode (Fig. 8).



8

Clicking the ▦ button with the cursor on "Copy" or "Cancel" (Ref.4/6 Fig. 3) ends the "**Copy Program**" mode and cancels any changes made to the programming.
Pressing the ⏻ button exits the "**Copy Program**" mode with the cursor positioned on the "Copy" command (Ref.4 Fig. 3) without conh firming any change.If you continue to press the key, the panel goes back to the "Home" page (Fig. 1).
N.B.: moving the cursor within the programming time slots will end the "**Copy Program** mode without confirming any changes set.

1.4.4 Set Eco Heating

Use the up/down scrolling buttons / to select the desired temperature for central heating mode when the zone is not in time slot active.Confirm the required value by clicking.

1.4.5 Set Eco Cooling

Use the up/down scrolling buttons / to select the desired temperature for cooling mode when the zone is not in time slot active. Confirm the required value by clicking.

1.4.6 Cooling program

To set the **Cooling program** do the same as described in paragraph 1.4.3 "Heating program(Central Heating Program)".

1.4.7 Set room humidity in cool.

Use the up/down scrolling buttons / to select the humidity value for the dehumidify function. · Confirm the desired value by clicking.

1.4.8 Advanced zone settings

Use the up/down scrolling buttons / to move the cursor to the advanced settings to be edited and press to change it.

- Room temperature control(On/Off)
- Climatic thermoregulation(On/Off)
- Heating water set(°C)
- Heating water correction(°C)
- Cooling water set(°C)
- Cooling water correction(°C)
- Dehumidifier disabling(On/Off)
- Start dehumidifier disabling(hh:mm)
- End dehumidifier disabling(hh:mm)
- Climatic zone name(Zone X, Kitchen, Bedroom, Living room, etc.)

By not enabling **Room Temperature Control** and **Climatic thermoregulation**, the system temperature can be set permanently with the Heating water set (and Cooling water set) parameter.
By enabling **Room Temperature Control**, the set system temperature is calculated automatically by the management board.The calculation includes reduction of the system set to the increase in room temperature.

Note: to activate this function, you must have a remote device to read the room temperature.

By enabling **Climatic thermoregulation**, the system set temperature is calculated automatically by the management board according to the measured outdoor temperature.The calculation is the result of the curve set by means of parameters R130 - R131 (Zone 1), R230-R231 (Zone 2) and R330-R331 (Zone 3).
Once the curve has been set, you may change the system set by means of the Heating water correction (or Cooling water correction) parameters.
The system is set up,as per standard, to use the heat pump external probe or an optional external probe.It is possible to enable thermal adjustment for each individual zone.

1.5 OTHER ZONES

Select the desired zone by scrolling within the panel using the up/down scrolling buttons / .Press the button to open the settings of the desired Zone (See paragraph 1.4 "Zone settings").

1.6 DHW

1.6.1 Operation mode

Use the up/down scrolling buttons / to select the desired operating mode among those available:

- **Auto**(Automatic)

The required domestic hot water temperature is given by the value set in the time slot of the calendar and the **"Set DHW temperature"** value (see paragraph 1.6.3) outside.

- **Man**(Manual)

1.6.2 Dhw program

To set the **Dhw program** do the same as described in paragraph 1.4.3 "Heating program(Central Heating Program)".

1.6.3 Set DHW temperature

Once the submenu has been selected, click the key to enter editing.Use the up/down scrolling buttons / to edit the desired temperature value.Confirm the change by pressing to confirm or undo the change by pressing .In **Auto** mode you may also set for how long the setting will be maintained or whether to end it immediately.

1.6.4 Set eco

Use the up/down scrolling buttons / to select the desired temperature for DHW mode when the appliance is in Eco mode.Confirm the required value by clicking .

1.6.5 Advanced settings

Use the up/down scrolling buttons / to move the cursor to the advanced settings to be edited and press to change it.

- **Boost functions**

Dhw operation takes place with the contribution of both the heat pump and the electrical resistance, with a logic that minimises storage tank charging time:

On: function always on regardless of programming.

- **Function Anti-legionella**

Function to perform a thermal shock on the storage tank:

Every Mon-Tue-Wed-Thu-Fri-Sat-Sun: the function is activated every week on the chosen day at the time set in **Anti-legion.cycle time**.

Everyday: the function is activated every day at the time set in **Anti-legion.cycle time**.

- **Anti-legion.cycle time**(hh:mm)
- **Enable DHW recirculation**

function provides the greatest possible comfort in domestic hot water supply by constantly circulating the water.

The**Enable DHW recirculation** function activates the pump in the time slots set with the recirculation program and in the time between these slots, it automatically switches the pump on and off to maintain the same DHW set temperature.

- **Recirculation program**

To set the **Recirculation program** do the same as described in paragraph 1.4.3 "Heating program(Central Heating Program)".

1.7 PANEL

Use the up/down scrolling buttons / to move the cursor to the advanced settings to be edited and press to change it.

- Panel interface(Simple/Complete)
- Language
- Sound(On/Off)
- Set date and time(use the navigation keys / / / to set the date and time and then confirm
- Display(illumination time/illumination level/minimum illumination level)
- Auto Daylight Saving Time

1.8 FAULTS

Within the menu, it is possible to view the Fault history occurred and to carry out the Reset anomalies.
Use the navigation buttons / / / to move the cursor into the menu and select the desired submenu.

1.9 ADVANCED

1.9.1 Holiday program

If required, it is possible to pause system operation for an established period, during which the antifreeze function is nonetheless guaranteed.
Use the navigation buttons / / / and the button to activate the mode and set its following parameters:
- Enable(On/Off)
- Start date(day:month:year)
- Start time(hh:mm)
- End date(day:month:year)
- End time(hh:mm)

1.9.2 System information

Use the navigation buttons / / / and the button to browse inside the menu and view the system information.
System information

- Mode set
- Calculated system temperature set
- System flow temp.
- Return temperature
- Screed heater(days remaining)
- System status
- System flow rate

Zone Information
- Current room temp setpoint
- Current room temperature value
- Current room humidity setpoint
- Current room humidity value
- Requested system temperature
- Current system temperature
- Dew point temperature
- Room Thermostat Stat.

Heat Pump Information
- HP Mode test
- HP Mode heat
- HP Mode cool
- HP Thermal Power
- HP Flow Temperature
- HP Return Temperature
- Compressor Outlet Temp.
- Compressor Discharge Temp.
- Expansion Valve Position
- Exchanger Refrigerant Temp.
- Coil temperature
- HP External Temp.
- HP Frequency
- HP Operating Status
- System status
- HP Electrical Power
- Fan speed
- HP Setpoint
- Pump speed
- HP Flow Meter

Integration information (if any)
- System integration
- DHW integration
- Heat Pump COP
- Central heating integration hours
- DHW integration hours

Board versions information

- FW System management board
- Build System management board
- FW Control panel
- Build Control panel
- Heat pump
- Panels (if any)
- Zone µHydro (if any)
- Hydro Slave 1 (if any)
- T/H Board (if any)
- Relay Board (if any)

1.9.3 Special functions

Use the navigation buttons / / / and the button to browse inside the menu and set the required functions.

- **Disable system integration**(On/Off)

The use of the system integration electrical resistances can be permanently disabled by setting the value on On.

- **Disable DHW integration**(On/Off)

The use of the DHW integration electrical resistances can be permanently disabled by setting the value on On.

- **Deaeration**(On/Off)

In the case of new systems and, in particular, for floor systems, it is very important that de-aeration is performed correctly.The function consists in the pumps and 3-way valve running cyclically for about 9 hours.
To activate the function, the appliance must be in standby mode.
The function is activated by setting the value on On.

- **Screed heater**(On/Off)

The HP is equipped with a function to perform the thermal shock on new radiant panel systems, as required by the applicable standard.
Contact the manufacturer of the radiant panels for the thermal shock characteristics and its correct execution.
To be able to activate the function there must be no remote control connected, while in case of system divided into zones it must be properly connected, both hydraulically and electrically.
The active zone pumps are those with ongoing requests, made via the room thermostat input.The function lasts in total 7 days - 3 days at the lowest temperature set and 4 days at the highest temperature set.
To activate the function, the appliance must be in standby mode.
The function is activated by setting: General menu/Advanced/Special functions/Screed heater = On.
Only the Installer/Maintenance technician authorised by means of Assistance menu can edit the temperature parameters.

1.9.4 Power reduction enable

Use the up/down navigation buttons / and the button to switch the function on/off.

1.9.5 Power reduction program

To set the Heat Pump Power reduction program, follow the procedure in paragraph 1.4.3 "Heating program(Central Heating Program)".

1.9.6 Silent mode program

To set the Silent operation program, follow the procedure in paragraph 1.4.3 "Heating program(Central Heating Program)".

1.10 ASSISTANCE

The functional parameters of the appliance can be edited in the menu.
Only the authorised Installer/Maintenance personnel may access the submenu, by entering the password.
For a description of the functions and parameters, refer to the generator manual.

1.11 FAULT AND ANOMALY SIGNALS

Error Code	Anomaly signalled	Cause	Appliance status / Solution	Source of Error
5	**Delivery probe fault**	The board detects an anomaly on the flow NTC probe.	The system does not start (1).	PDC
(1) If the shutdown or fault persists, contact an authorised company (e.g. Authorised After-Sales Technical Assistance Centre).				

For a description of the error codes that may be displayed, refer to the generator manual.

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Cod. 1.051466ENG - rev. ST009384/000 - 10/25

This instruction booklet is made of ecological paper.