atlantic

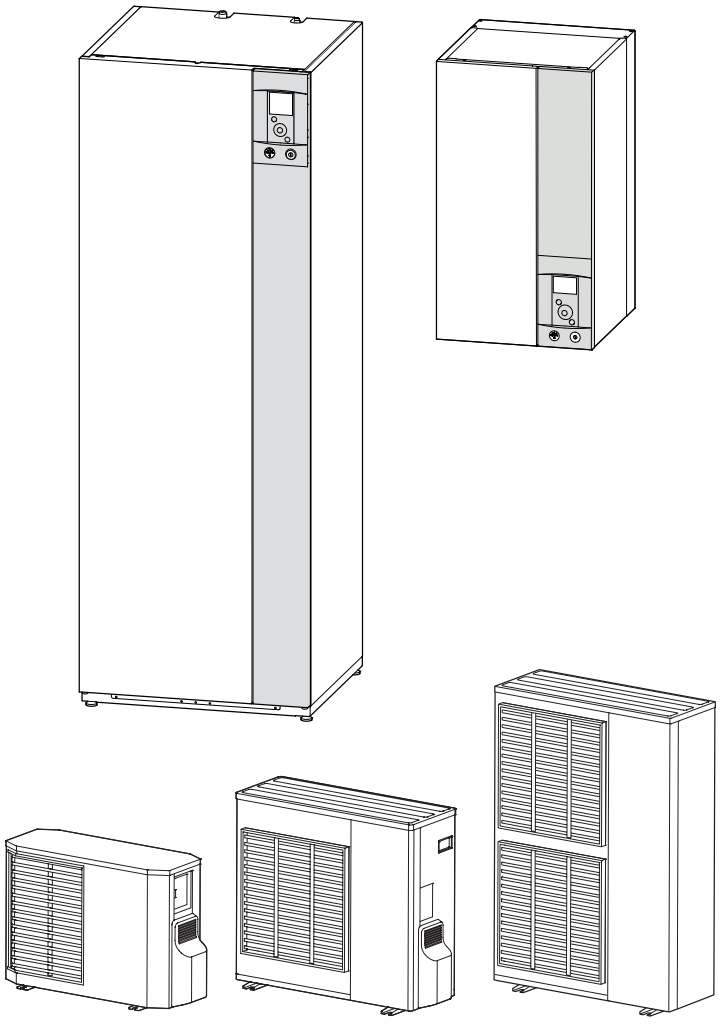
Home solutions
Heat pumps & boilers

OPERATING MANUAL

EN

Alféa Extensa A.I. / Alféa Extensa Duo A.I.
Alféa Excellia A.I. / Alféa Excellia Duo A.I.

Air/water split heat pump



U0611401_1819_EN_8
06/09/2021

Intended for professionals and the user
To be kept by the user for future reference

Contents

Safety instructions

Please comply with the following instructions in order to avoid any risk of injury or inappropriate use of the appliance.

Commissioning

Do not switch the appliance ON until every filling operation has been performed

Do not attempt to install this appliance yourself. This heat pump must be installed by qualified personnel holding a certificate of competence.

The installation must always be properly earthed and fitted with a safety circuit breaker.

Do not change the power supply.

The appliances are not fireproof and should not therefore be installed in an explosive environment.

How to Use

This appliance can be used by children 8 years and above. Also persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided they have been given supervision or instruction concerning use of the appliance in a safe way and with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Do not let children insert foreign bodies inside the propeller protection grate or climb onto the roof of the outdoor unit. The fins of the air heat exchanger are extremely thin and can cause cuts.

Nothing should obstruct the air circulation through the evaporator and out from the fan.

The outdoor unit must only be installed outside. If a shelter is required,it must have broad openings on all 4 sides and installation clearances must be observed (see your installation engineer).

Do not climb on top of the outdoor unit.

The room in which the unit is operating must be correctly ventilated in order to avoid any shortage of oxygen in the event of a refrigerant gas leak.

If your installation location already meets safety standards, do not carry out any modifications (ventilation, exhaust evacuation, openings, etc.) without the advice of your installation engineer.

Do not place any heat source under the remote control.

Maintenance

Do not try to repair the appliance yourself.

This appliance does not contain any components which can be repaired by the user. Removing either of the covers can expose you to dangerous electrical voltages.

In any case, switching off the current is not sufficient to protect you from any external electrical shocks (condensers).

Do not open the outdoor unit or the hydraulic unit while they are in operation.

If you hear unusual noises, smell smoke or other odours coming from the appliance, turn off the power and contact your installation engineer.

Before starting any cleaning, turn off the power to the appliance.

Do not use aggressive cleaning liquids or solvents to clean the body work.

Do not use a pressure hose to clean the outdoor unit. You may damage the air exchanger and get water inside the electrical circuits.

Overview of installation

Precautions and warnings about your installation

Outdoor unit

The outdoor unit contains the equipment that enables the capture of energy from the surrounding air.

This unit was installed by your installer in a location where it is able to operate with best performance.

Nothing should obstruct the air circulation through the evaporator and out from the fan.

The water contained in the air may condense and flow out of the outdoor unit. The outdoor unit can generate a large volume of water called condensate.

In cold weather, this water freezes on contact with the exchanger and must be regularly removed using the defrosting cycles. The defrosting cycle is managed automatically by the control system and can produce steam emissions which are completely normal.

Hydraulic unit

The hydraulic unit contains the appliance's control system which manages the room temperature and the production of domestic hot water.

The hydraulic unit is fitted with an electrical backup* or boiler connection* which intervenes to provide additional heat during the coldest periods.

Settings

Your installer has carefully adjusted your installation. Do not change the settings without their consent. If in doubt, do not hesitate to contact them.

Your heating system is controlled by adjustment in relation to the outside temperature (temperature control).

The installation of a room thermostat (option) makes it possible to improve the operation of the control system (influence of the ambient temperature is taken into account).

Radiators

In order to ensure operation of the control system, the room containing the thermostat must not also contain a thermostatic valve. If this is the case, it must be opened as far as possible.

Underfloor heating system

A new underfloor heating system must initially be heated slowly to avoid any problems involving cracking. Check with your installer that this initial heating procedure has indeed been performed before freely using your heating system.

An underfloor heating system's significant inertia prevents sudden room temperature differences. However, this inertia implies a reaction time of around several hours (approx 6 hours).

Any changes to the setting must be made slowly and leave the installation sufficient time to react. Any exaggerated or abrupt adjustments to the settings always result in significant temperature fluctuations during the day.

Similarly if your dwelling has an underfloor heating system, do not reduce it or switch it off if you will be absent for only short periods. The reheating period is always quite long (approx 6 hours).

Fan coils / dynamic radiators with an integrated control system

Do not use a room sensor in the area in question.

Domestic Hot Water (DHW)*

When hot water is required, the heat pump adapts its priority to meet the request.

No heating is produced during the preparation of domestic hot water.

The heat pump produces the domestic hot water (DHW), which is then additionally heated, if required, by the electrical backup.

To ensure a DHW setpoint over 45°C, the electrical backup heating or boiler (boiler connection kit)* must be left on.

The electrical backup allows the correct operation of the anti-legionella cycles.

* depending on configuration / option

▶ Appliance end-of-life

The appliances must be dismantled and recycled by a specialised service. The appliances must not, under any circumstances, be thrown out with household waste, bulky waste or at a tip.

At the end of its service life, please contact your installer or local representative to proceed with its dismantling and recycling.

▶ Overview of the installation

Your heat pump has been configured by your installation engineer. It is made up of the following main parts:

- The outdoor unit, as its name suggests, is placed outside your dwelling, and extracts energy from the outside air.
- The hydraulic unit is located in your boiler room, cellar, garage or even in your kitchen, and transfers energy to the heating and domestic hot water circuits*.
- The outside sensor monitors the outside temperature.

Optional:

- Room sensor(s).

Heat pumps are systems which can be connected to any type of **low temperature distribution system** and the heat captured by the heat pump can be used in different ways:

- Underfloor heating system.
- Radiators.
- Domestic Hot Water (DHW)*.

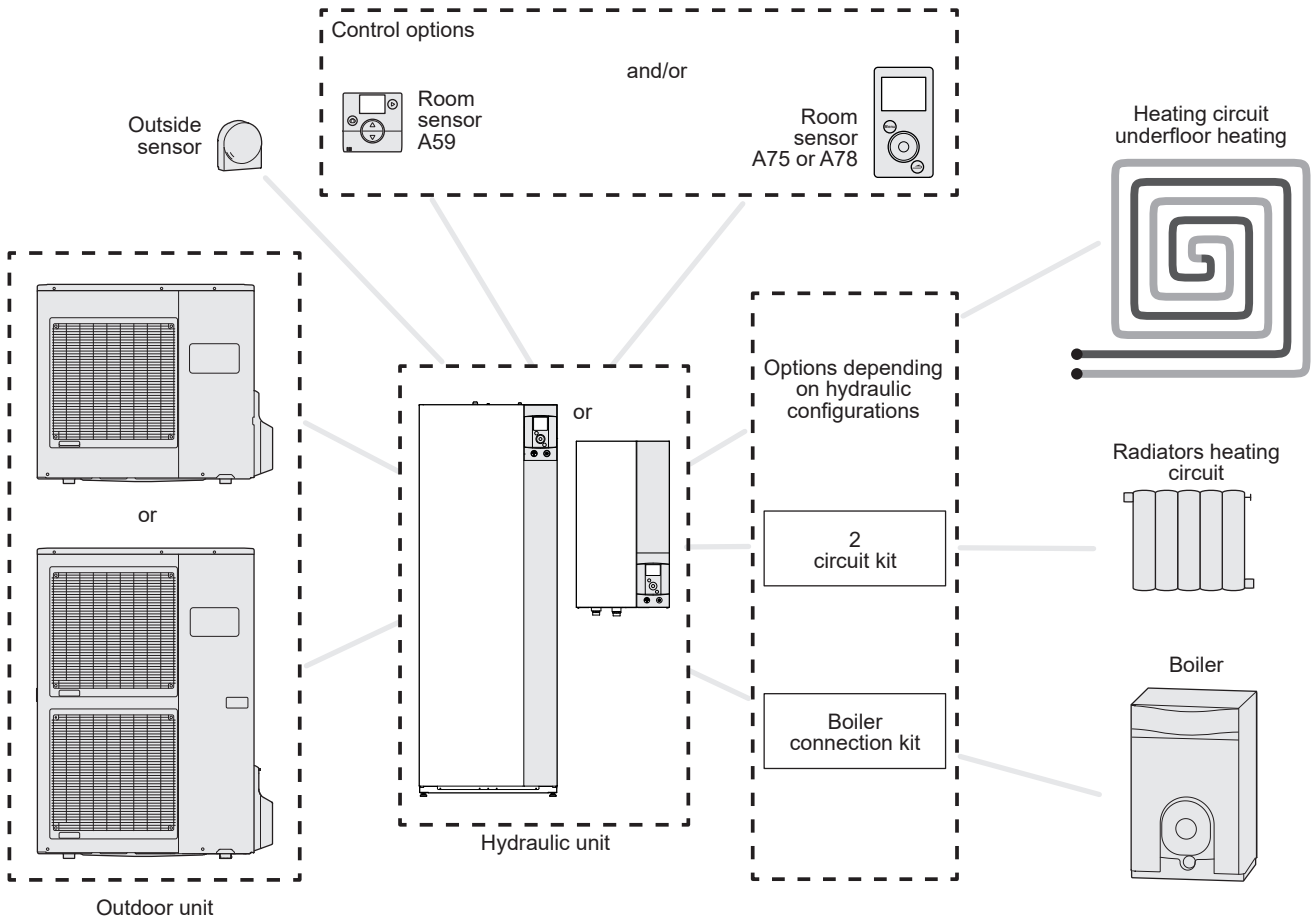
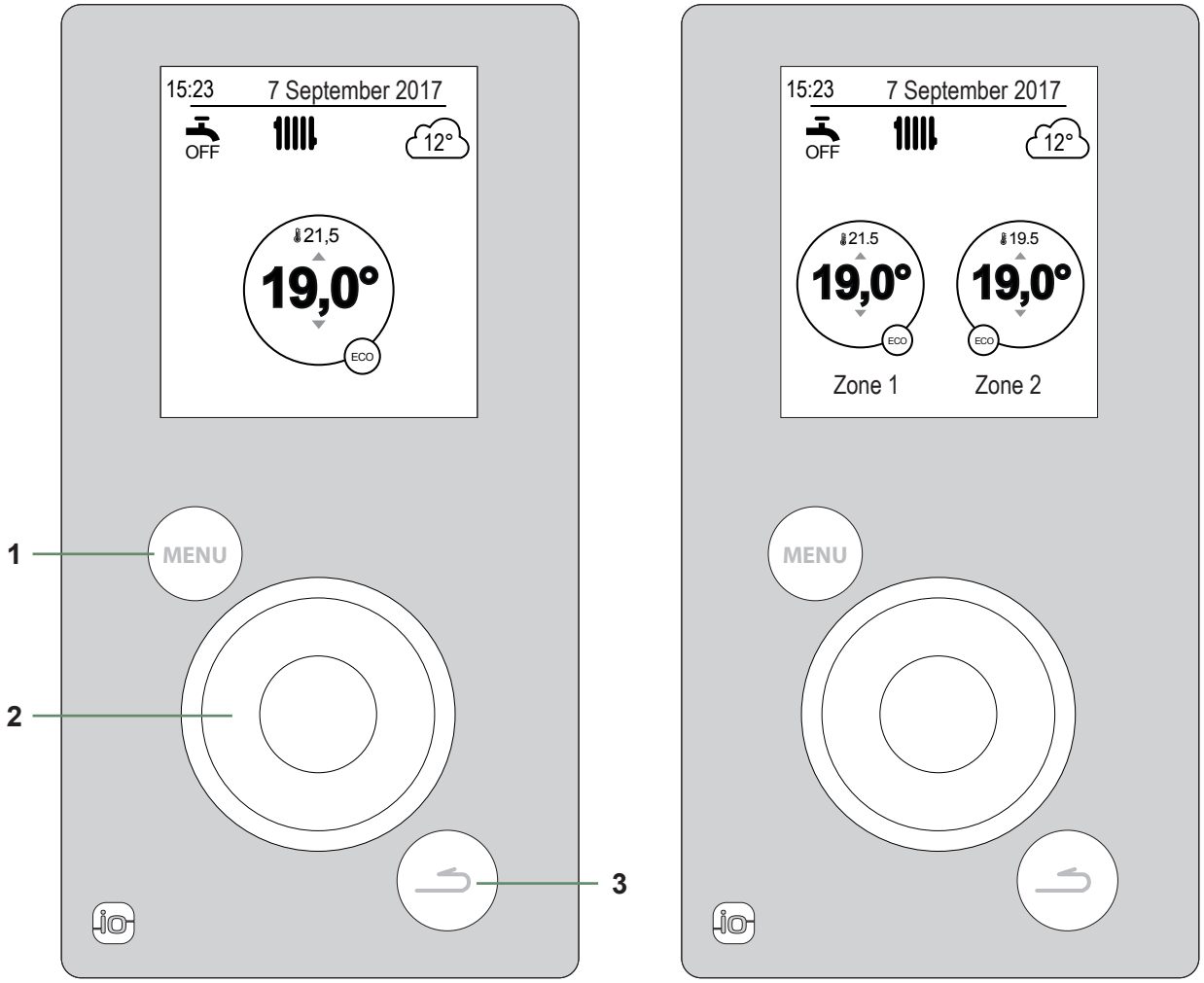


fig. 1 - Overview of complete installation configuration

* depending on configuration / option

Carrying out the installation

▶ User Interface

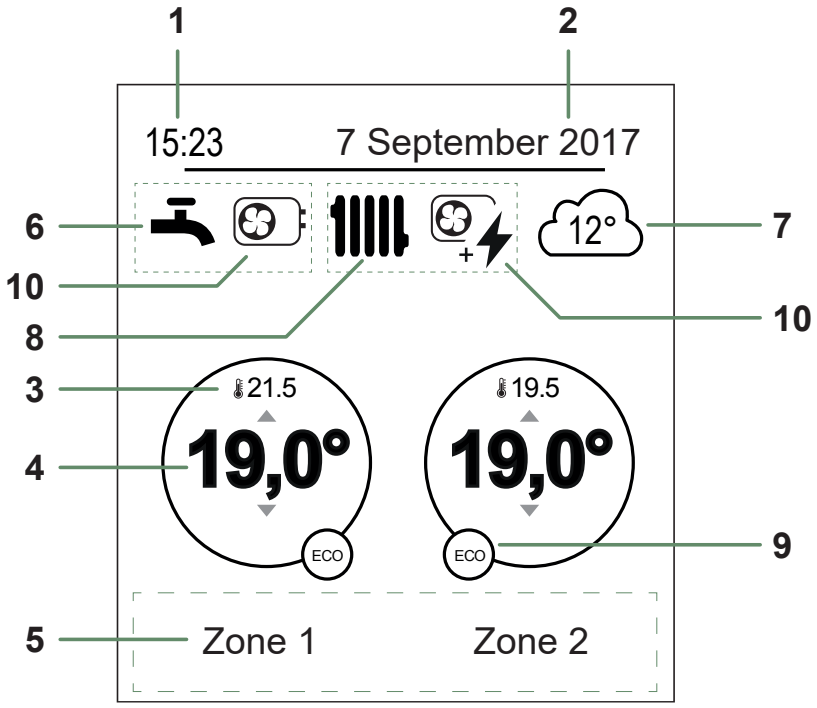


1 heating circuit version + domestic hot water (DHW)

2 heating circuit version + domestic hot water (DHW)

Reference	*Description*
1	Menu button
2	Navigation knob (rotate knob), accept (press knob)
3	Back button

▶ Display Description



N°	Symbols	Definitions
1	15:23	Time
2	07 September 2017	Date
3	21.5	Temperature measured by the room sensor*
4	19,0°	Room temperature setpoint
5		Information (zone names, emergency mode, test mode, error display, etc.)
6	**Domestic Hot Water (DHW)* ...**	
		Activated
	BOOST	Boosting in progress
	OFF	Deactivated
7	12°	Temperature measured by the outside sensor
8	**Operation ...**	
		Heating
		Cooling*

N°	Symbols	Definitions
9	**Mode ...**	
		Comfort
		Manual (exemption)
	ECO	ECO
		Holiday
		Floor drying
		Stop (except frost)
10	**Production via ...**	
		Heat Pump
		Electrical backup*
		HP + electrical backup*
		HP + Fuel/Gas*
		Fuel/Gas*

* depending on configuration / option

▶ Navigating the Menus

To ...	Action:
Access the menu	Press MENU.
Choose a menu item	Turn the knob to highlight your choice. Press the knob to accept.
Return to the previous menu	Press ⮌.
Return to the main menu	Press MENU twice.
Return to the welcome screen	Press MENU or ⮌ on the main menu.

Note: *Some settings (or menus) might not be displayed. They are dependent on the installation's configuration (and installed options).*

▶ Modifying Settings

Turn the knob to highlight the setting you wish to change.
Press the knob to accept the change.
Turn the knob to adjust the setting.
Press the knob to accept your choice.

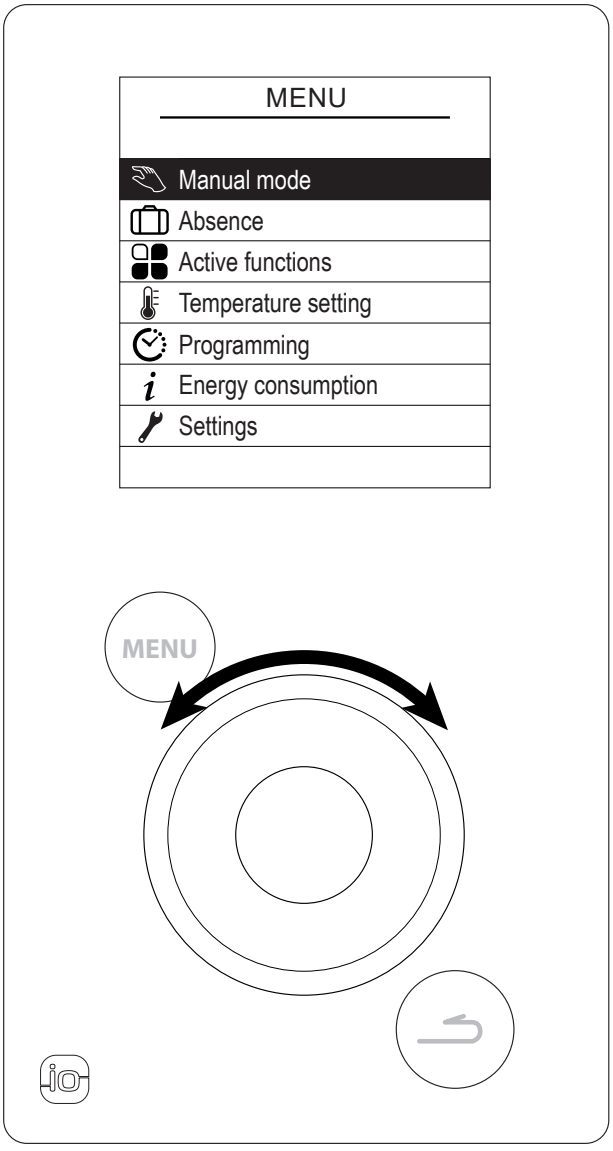
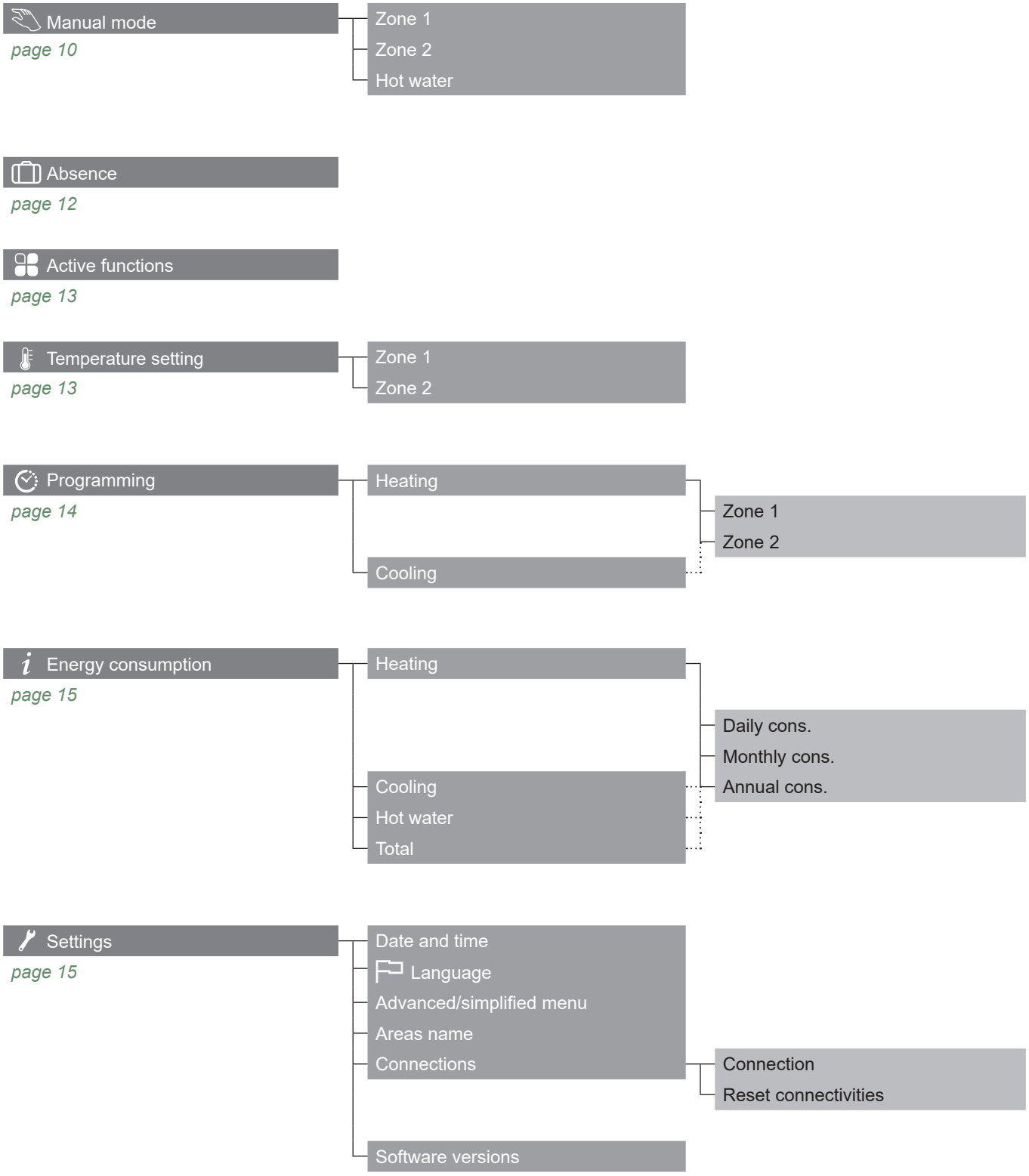


fig. 2 - Navigation

▶ Menu Structure



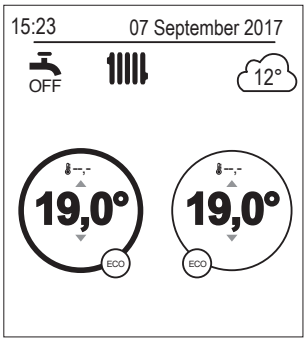
▶ Manual mode

▼ Derogation from timer program

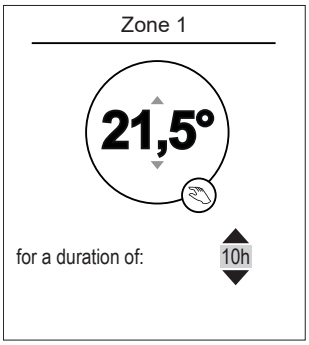
When a timer program is active (advanced menu), an exemption allows you to force the appliance into operation (*"Heating" or "Cooling"*) at the desired temperature for a certain duration.

■ From the welcome screen

Select the zone (the selected zone's circle is thicker).

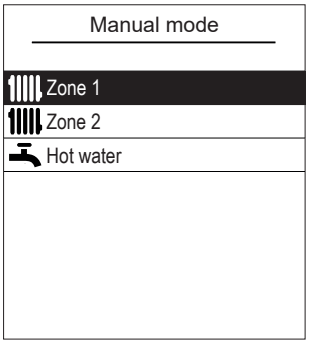


Set the required temperature, then the duration of the exemption.

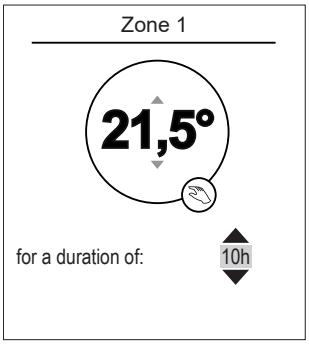


■ From the menu

Choose the zone from the menu:
"Manual mode".



Set the required temperature, then the duration of the exemption.

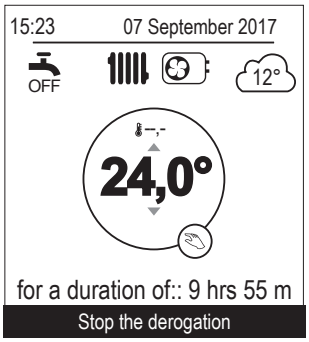


Some settings (or menus) might not be displayed. They are dependent on the installation's configuration (and installed options).

▼ Cancelling an derogation from timer program

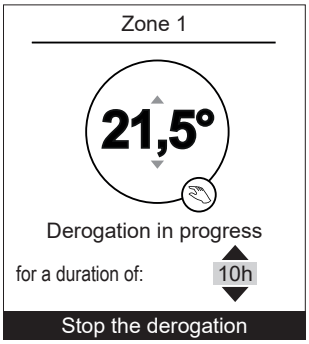
■ Cancelling an derogation with 1 heating zone

From the welcome screen, select:
"Stop the derogation".



■ Cancelling an derogation with 2 heating zones

Choose the zone from the menu:
"Manual mode".
Press the knob to cancel the exemption.

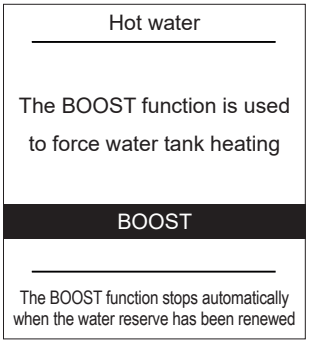


▼ Forced domestic hot water operation (Boost)

The domestic hot water (DHW) boost function heats the tank up to the Comfort temperature.

Go to the menu:
"Manual mode" > "Hot water".
Press the knob to activate the "*BOOST*" function.

When hot water is required, the heat pump adapts its priority to meet the request.
No heating is produced during the preparation of domestic hot water.



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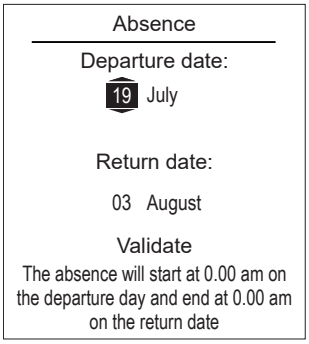
▶ Absence

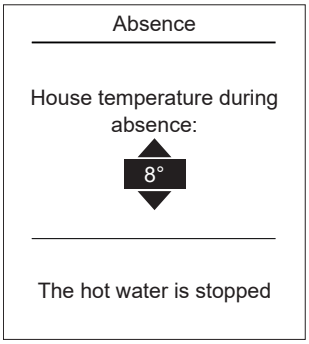
In the event of a prolonged absence, you can set a period in which the heating operates at a reduced temperature (except for frost) and the production of domestic hot water (DHW) is stopped.

▼ Programming absence mode

Set the holiday start and end dates and accept.
- To return to the previous setting (e.g. from month to day), press the ⮌ button.

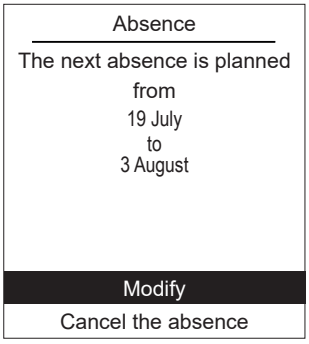


Set the temperature for the dwelling during the absence.

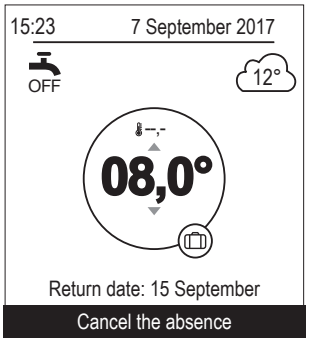


▼ Viewing, modifying and cancelling the next absence period

You can view, modify and cancel the next holiday period by going into the menu: *"Absence"*.



You can cancel a currently active absence period from the welcome screen.



Some settings (or menus) might not be displayed. They are dependent on the installation's configuration (and installed options).

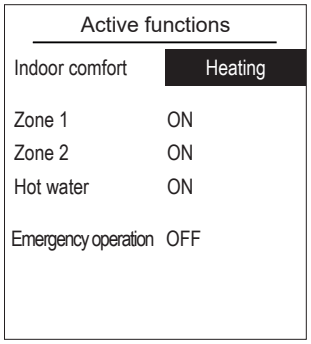
Active functions

The "*Active Functions*" page tells you which services are operating and allows you to change their status.

- "*Indoor comfort*": *Heating / Cooling / Stop.*
- *"Zone 1" / "Zone 2" / "Hot water"*: *ON / Stop.*

If "Indoor Comfort" is set to "Stop", Zones 1 and 2 cannot be modified.

«Emergency operation» : Activate only in case of error «370 : Thermodynamic Generator». The appliance heats only with the electrical backup.

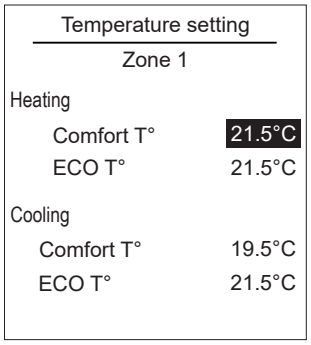


Temperature setting

The "Temperature setting" page allows you to set temperature setpoints for Comfort and ECO periods (heating and cooling). Settings must be recorded for each zone.

Heating temperatures factory settings:
Comfort 20°C, ECO 19°C.

Cooling temperatures factory settings:
Comfort 24°C, ECO 26°C.



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▶ Programming

A timer program allows you to define the appliance's automatic operation periods (Comfort ↔ ECO) Each day can be set independently.

▼ Creating a timer program

❶ - Choose *"Heating" or "Cooling"* as well as the appropriate zone by accessing the menu: *"Programming" > "Heating" / "Cooling" > "Zone 1" / "Zone 2".*

❷ - Select the day.

❸ - Adjust the Comfort period start and end times.

If 2 or 3 Comfort periods are not required, click on "--:--".

- To return to the previous setting (e.g. end 1st heating period to start of 1st heating period), press the ⮌ button.

• To copy the program to other days:

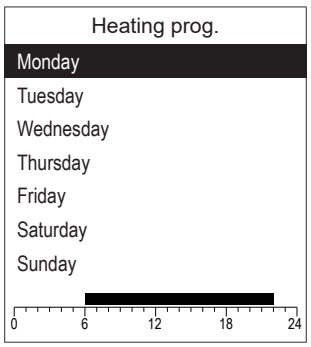
❹ - Select "*Validate and copy*".

❺ - Set the required days to "*Yes*" and then select "*Complete*".

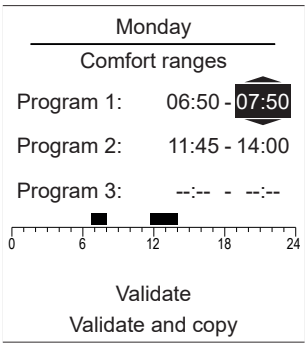
• Else "*Validate*".

Heating / cooling period factory setting: 06:00 - 22:00.

❷



❸



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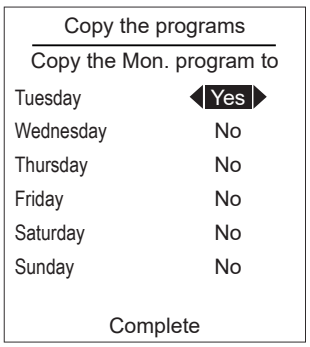
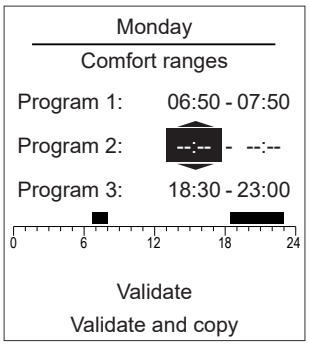


▼ Deleting a Comfort period

To delete a Comfort period, set its start and end times to the same value.
When accepting a setting, the screen displays:

Program X: --:-- - --:--

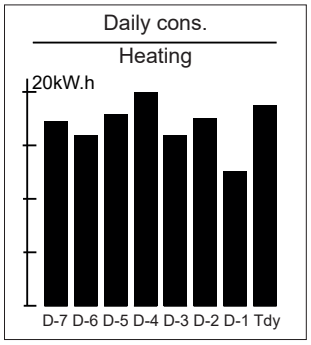


Some settings (or menus) might not be displayed. They are dependent on the installation's configuration (and installed options).

▶ *i* Energy consumption

Consumption can be displayed per usage:
- Heating (Zones 1 and 2).
- Cooling.
- Domestic Hot Water (DHW).
- Total (Heating + Cooling + Hot Water).

This information is available for:
- the last 8 days: daily consumption (Tdy = Today, D-1 = yesterday, etc.).
- the last 12 months: monthly consumption (Initial letter of month. e.g. J = January, etc.).
- the last 10 years: annual consumption (last 2 digits. e.g. 16 = 2016).

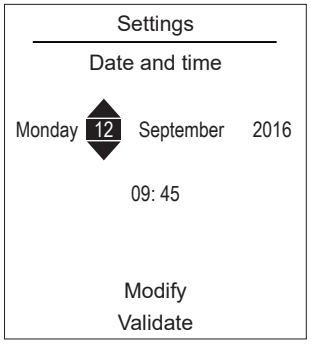


Example for daily consumption of the heating system.

▶ Settings

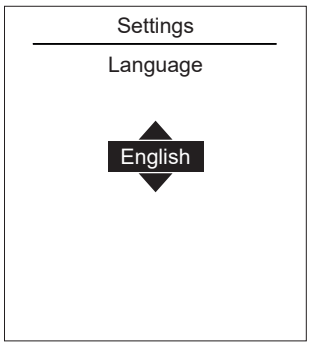
▼ Date and time

To set the appliance's date and time, access the menu:
"Settings" > "Date and Time".



▼ Language

To change the language, access the menu:
"Settings" > "Language".



Some settings (or menus) might not be displayed. They are dependent on the installation's configuration (and installed options).

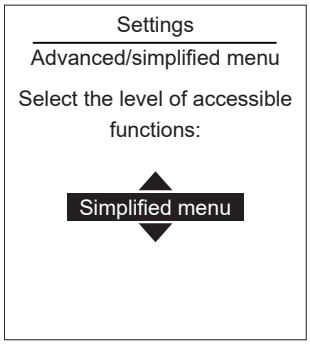
▼ Advanced/simplified menu

Two display modes for menus and appliance functions are available:

- **Advanced menu**:
  - The appliance follows the timer programming defined in paragraph , *page 14.*
- **Simplified menu***:
  - The appliance operates at a constant temperature set directly by the user.
  - Some functions are no longer accessible.

***** The "*Simplified Menu*" setting is not compatible with the Cozytouch application.

Choose the display mode from the menu:
"Settings" > "Advanced/Simplified menu"



■ Setting the temperature in the Simplified Menu

1 zone

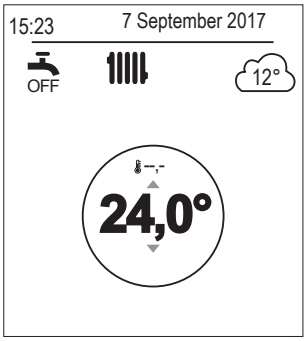
❶- Turn the knob to adjust the temperature **directly**.

2 zones

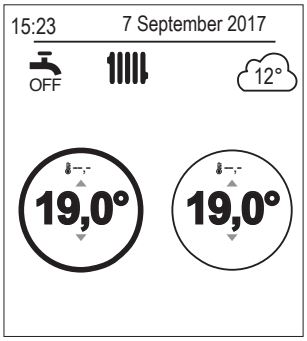
❷ - Select the zone. Accept.

❹ - Set the temperature using the knob. Accept.

❶



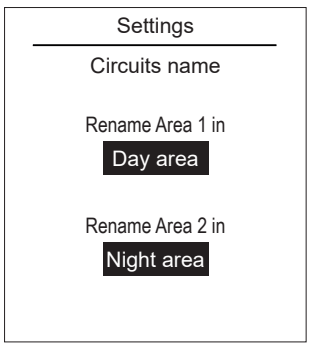
❷



▼ Areas name

You can customise the zone names from the menu:
"Settings" > "Areas name".

Available names: "*Area 1*" / "*Area 2*" / "*Day area*" / "*Night area*" / "*1st floor*" / "*Lounge*" / "*G. floor*" / "*Bedroom*" / "*Floor*" / "*Radiator*".



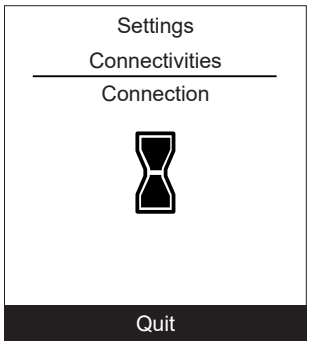
Some settings (or menus) might not be displayed. They are dependent on the installation's configuration (and installed options).

▼ Connectivities

■ Pairing a room sensor:

To connect a room sensor, go to the menu:
"Settings" > "Connectivities" > "Connection".
The appliance waits for pairing for 10 minutes.
See the room sensor's installation instructions.

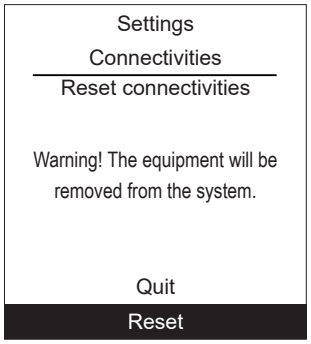
The "Connection" menu is no longer accessible if a sensor has already paired.



■ Reset connectivities

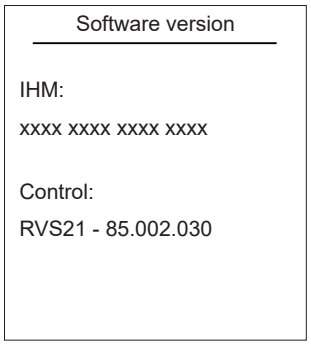
⚠ Reinitialising will cancel all pairings.

Select "Re-set" in the menu:
"Settings" > "Connectivities" > "Reset connectivities".



▼ Software version

Show the display (IHM) and controller software versions.



Some settings (or menus) might not be displayed. They are dependent on the installation's configuration (and installed options).

Maintenance

In order to ensure that your appliance operates correctly for many years, the maintenance operations described below are required at the start of each heating season. They are generally carried out as part of a maintenance contract.

▶ Regular checks

Check the water pressure in the heating circuit regularly (refer to the installer's recommended pressure - between 1 and 2 bar)

If a filling operation and a pressure increase are required, check what type of fluid was used initially (when in doubt, contact your installer).

If frequent refills are required it is absolutely essential that you check for any leaks.

The frequent addition of water risks scaling the exchanger and affects its performance and lifespan.

▶ Checking the outdoor unit

Remove any dust from the exchanger, if necessary, while making sure not to damage the blades.

Check that there is nothing blocking the air flow.

▶ Checking the refrigeration circuit

If the amount of refrigerant in the system exceeds 2kg (models > 10 kW), the refrigeration circuit must be checked annually by an approved engineer (they must have a certificate of competence for the handling of refrigerants). Consult your heating engineer.

Hot water tank*

Maintenance on the tank must be carried out annually (frequency may vary according to water hardness).

Consult your heating engineer.

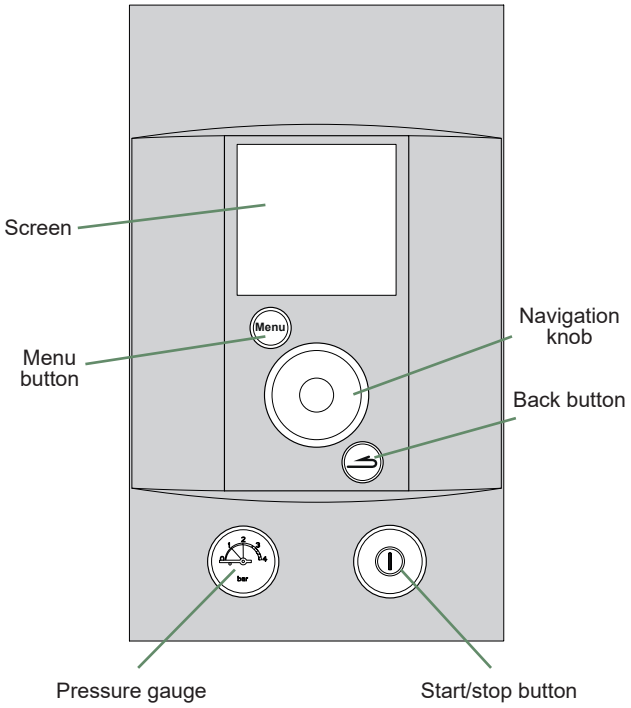


fig. 3 - Control panel

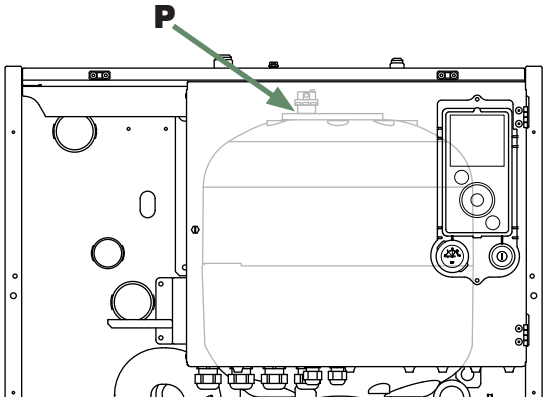
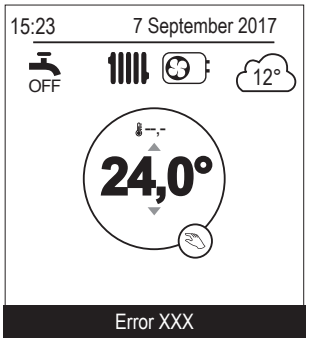


fig. 4 - Automatic bleeder valve

* depending on configuration / option

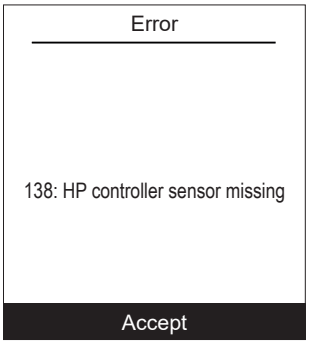
▶ Error messages

If a fault occurs, the error number appears on the welcome screen.



To obtain the error's designation, select it using the knob.

In the event of an error, note down the number and consult your heating engineer.



in case of error "**370 : Thermodynamic Generator**", activate the "**Emergency operation**" (see *page 13*) and consult your heating technician.

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SATC - BP 64 - 59660 MERVILLE - FRANCE

Date de la mise en service :

Coordonnées de votre installateur chauffagiste ou service après-vente.

012

Keymark Certification :

012-002 - Alféa Excellia A.I. 11 - Alféa Excellia Duo A.I. 11
012-001 - Alféa Excellia A.I. 14 - Alféa Excellia Duo A.I. 14
012-003 - Alféa Excellia A.I. 11tri - Alféa Excellia Duo A.I. 11tri
012-004 - Alféa Excellia A.I. 14tri - Alféa Excellia Duo A.I. 14tri
012-005 - Alféa Excellia A.I. 16tri - Alféa Excellia Duo A.I. 16tri
012-007 - Alféa Extensa A.I. 5 - Alféa Extensa Duo A.I. 5
012-008 - Alféa Extensa A.I. 6 - Alféa Extensa Duo A.I. 6
012-009 - Alféa Extensa A.I. 8 - Alféa Extensa Duo A.I. 8
012-010 - Alféa Extensa A.I. 10 - Alféa Extensa Duo A.I. 10

This appliance is marked with this symbol. It means that all electrical and electronic products must be strictly separated from household waste.
A specific recovery system for this type of product is in place in the countries of the European Union (*), Norway, Iceland and Liechtenstein.
Do not attempt to dismantle this product yourself. This can have adverse effects on your health and on the environment.
Refrigerant liquid, oil and other parts must be reprocessed by a qualified installer in accordance with applicable local and national laws.
In terms of recycling, this appliance must be processed by a specialised service and must not, under any circumstances, be thrown out with household waste, bulky waste or at a tip.
Please contact your heating engineer or After Sales service for further information.

* Depending on the national regulations of each member state.