



ELNUR GABARRON®

INSTALLATION INSTRUCTIONS AND USER GUIDE

HEAT PUMP WATER HEATER

TAG

MODELS

TAG-200

TAG-300



Please read these instructions carefully before installing or using the appliance for the first time. These instructions must be followed to ensure the unit is installed safely. Any problems, faults or damage caused by failure to follow these instructions will not be covered by the manufacturer's warranty. This manual should be kept with the appliance by the user for future reference.

1. PURPOSE AND CONTENT OF THE MANUAL

This manual provides essential information on the installation, operation and maintenance of the units, with the aim of helping operators to use the equipment efficiently, even without prior knowledge of the unit.

This manual describes the equipment's specifications at the time of its launch. It may not include subsequent technological updates made by the company to improve performance, ergonomics, safety and functionality. Consequently, the company is not obliged to update the manuals for previous versions of the equipment.

Users are strongly advised to follow the instructions in this manual, particularly those relating to safety and routine maintenance.

1.1 CARE OF THE MANUAL

The manual should be kept as a reference guide for the appliance, stored in a dry and safe place, and made available to all users who may need it to understand how to use it correctly.

The company reserves the right to make changes to its products and manuals without any obligation to update previous versions. We accept no responsibility for any errors resulting from printing or transcription.

Any updated copies or sections of the manual provided by the manufacturer should be kept with the original.

If you require any further information regarding the manual or the operation and maintenance of the appliance, the company is here to assist you.

1.2 Symbols used in this manual

	Indicates actions that could be dangerous to people and/or interfere with the proper functioning of the equipment.
	Indicates operations that are not permitted.
	This indicates important instructions that the operator must follow to ensure the equipment operates correctly and safely. It also includes general notes.



Caution: Risk of fire due to flammable materials.

Maintenance work must strictly adhere to the manufacturer's recommendations. Repairs or maintenance requiring specialist knowledge must only be carried out under the supervision of a professional trained in the handling of flammable refrigerant gases.

	WARNING	This symbol indicates that the appliance uses flammable refrigerants. Refrigerant leaks exposed to an external ignition source may pose a fire hazard.
	WARNING	This symbol indicates that you should read the instruction manual carefully.
	WARNING	This symbol indicates that only trained personnel should handle this equipment, referring to the installation manual for guidance.
	WARNING	This symbol indicates that service engineers should refer to the installation manual whilst working on the equipment.

2. IMPORTANT INFORMATION

- Please keep these instructions for future reference. This manual should be kept and given to any new user.
- The warranty does not cover damage caused by failure to follow these instructions.
- Installation and commissioning must be carried out in accordance with these instructions and only by qualified professionals, in compliance with current regulations.
- It is mandatory to fit the dielectric sleeves supplied in the water heater's accessory kit to the water inlet and outlet. The warranty does not cover damage caused by failure to install them.
- The use of this thermos flask is prohibited in areas where explosive gases or flammable substances are present.
- Please ensure that the power supply to the socket into which the water heater is to be plugged is suitable for the specifications shown on the appliance's rating plate.
- This equipment must be earthed.
- Keep the supply hose away from the hot parts of the water heater.
- Improper handling can cause serious injury.
- Do not pull on the cable; instead, pull on the plug to unplug the kettle from the socket.

- Do not use extension leads. This can cause overheating and lead to a fire.
- Never touch the kettle when you are barefoot or have wet or damp hands.
- The water heater must be switched off during installation and cleaning.
- Do not install the water heater in front of or below a power socket.
- The water heater must be installed in such a way that the switches or other controls cannot be touched by anyone using the bath or shower.
- Never dismantle the components of the water heater or replace them with parts that do not meet safety requirements. If the power cable is damaged, it must be replaced by the manufacturer or their authorised representative to avoid any danger.
- This appliance may be used by children aged 8 years and over and by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided they have been given appropriate supervision or instruction regarding the safe use of the appliance and understand the hazards involved.
- Children should not play with the device.
- Cleaning and maintenance tasks to be carried out by the user must not be performed by children without supervision.
- Do not install outdoors. Do not pierce or burn.
- If the power cable is damaged, it must be replaced by the manufacturer, their service agent or similarly qualified personnel in order to avoid any risk.
- The appliance must be installed in accordance with current national plumbing and electrical regulations.
- Do not use any methods to speed up the defrosting process or for cleaning other than those recommended by the manufacturer.
- The appliance must be stored in a room free from any continuous sources of ignition, such as open flames, a gas appliance in use or an electric heater in use.
- Please note that refrigerants may not have a smell.
- National regulations on refrigerant gases must be complied with.
- The appliance must be installed in a well-ventilated area where the room size corresponds to the specified room area for correct operation, and the installation clearances must be observed.
- The appliance must be stored in such a way as to prevent mechanical damage to the unit.
- Anyone working on or carrying out technical work on a refrigerant circuit must hold a valid qualification issued by an accredited assessment body, certifying their competence to handle refrigerants safely in accordance with current national regulations.
- Maintenance will only be carried out in accordance with the equipment manufacturer's recommendations. Any maintenance or repairs requiring the assistance of other qualified personnel must be carried out under the supervision of a person competent in the use of flammable refrigerants.
- The company accepts no liability, whether contractual or non-contractual, for injury to persons, animals or damage to property resulting from incorrect installation, adjustment or maintenance, misuse, or failure to read and fully understand the information provided in this manual.
- These units are designed exclusively for heating water. Any other use is considered inappropriate and is prohibited unless expressly authorised by the manufacturer.
- The location of the installation, as well as the plumbing and electrical systems, must be determined by a qualified installer, who must take into account both the technical requirements and any applicable local regulations or specific permits.
- All work must be carried out by qualified and experienced personnel who are familiar with the regulations in force in the relevant country.

3. GENERAL SAFETY INSTRUCTIONS.

Before operating the unit, all users must be fully familiar with the equipment's functions and controls and must read and understand the information provided in this manual.

	It is strictly forbidden to remove or tamper with any safety device. Do not remove the fan outlet grilles or the top cover.
	Children or disabled people must not use this equipment without assistance.
	Do not touch the appliance with bare feet or with any parts of your body that are wet or damp.
	Do not pull, drop or twist the electrical cables connected to the unit, even if it is disconnected from the power supply.
	Do not stand on the appliance, sit on it or lean against any part of it.
	Do not spray or pour water directly onto the appliance.
	Do not throw away, discard or leave packaging materials (such as cardboard, staples, plastic bags, etc.) within reach of children, as they may pose a potential hazard.
	Any routine or non-routine maintenance must only be carried out when the equipment is switched off and disconnected from the power supply.
	The plastic cover must only be removed by qualified personnel.
	Do not insert your hands, screwdrivers, spanners or other tools into the moving parts of the equipment.
	The team supervisor and maintenance staff must receive appropriate training to carry out their duties safely.
	Operators must know how to use personal protective equipment and be familiar with the accident prevention guidelines set out in national and international laws and regulations.

3.1 SAFETY SYMBOLS

The unit is fitted with the following safety signs, which must be observed:

	— General hazards:
	Risk of electric shock.
	Presence of movable parts
	Presence of surfaces that could cause injury

4. GENERAL CHARACTERISTICS

A hot water heat pump is one of the most cost-effective systems for heating water in residential and small business settings. By harnessing free, renewable energy from the air, this unit offers high efficiency and low operating costs. They can be up to three or four times more efficient than traditional gas boilers or electric water heaters.

4.1 FLEXIBILITY AND BENEFITS OF INSTALLING UNITS

Waste heat recovery: The unit can be installed in areas with plenty of waste heat, such as kitchens, boiler rooms or garages. This installation improves energy efficiency, even at low outdoor temperatures during the winter.

Hot water and dehumidification: Ideal for laundry rooms or utility rooms, the unit not only produces hot water, but also helps to lower the room temperature and reduce humidity.

Pantry cooling: The unit can be placed in storage areas, where its low temperature helps to keep food fresh.

Hot water and fresh air ventilation: Ideal for spaces such as garages, gyms or basements, the unit produces hot water whilst cooling the room and providing fresh air.

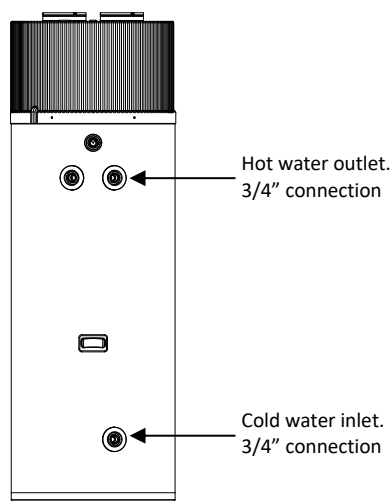
Eco-friendly and cost-effective heating: This unit, an efficient and cost-effective alternative to fossil fuel boilers and heating systems, uses renewable energy from the air and consumes far less energy.

multiple functions Thanks to its special air inlet and outlet design, the unit offers versatile installation options. It can operate not only as a heat pump, but also as a fresh air generator, dehumidifier or heat recovery unit.

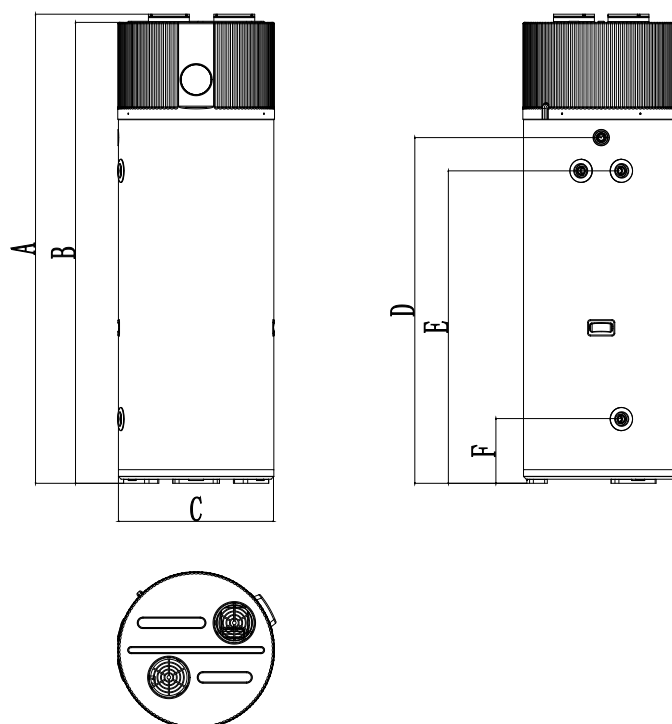
	The unit is primarily designed as a heat pump for domestic hot water (DHW) production. Any additional benefits, such as ambient cooling, dehumidification or waste heat recovery, should be regarded as secondary. These functions cannot be controlled with precision. Therefore, performance data will be provided solely in relation to the water heating function.
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5. OVERVIEW OF THE UNIT

5.1 HYDRAULIC CONNECTIONS.



5.2 DIMENSIONS



Model	A	B	C	D	E	F
TAG-200	1720	1690	Ø570	1268	1146	236
TAG-300	1826	1796	Ø650	1374	1250	250

6. INSTALLATION



WARNING: All the operations described below must be carried out by **QUALIFIED PERSONNEL**. Before carrying out any work on the unit, ensure that the power supply is switched off.

6.1 OVERVIEW

When installing or repairing the unit, it is essential to follow the instructions in this manual strictly, to comply with all the specifications indicated on the labels affixed to the unit, and to take all necessary precautions. Failure to follow the guidelines in this manual may result in dangerous situations and the voiding of the warranty.



Please note that all the installation diagrams in this chapter are for reference only. The correct installation configuration must be assessed on a case-by-case basis by the installer.

6.2 SAFETY INSTRUCTIONS

To prevent injury to users or third parties, or damage to property, the following instructions must be strictly followed. Failure to follow these instructions may result in damage.

The unit must only be installed if it complies with local regulations, codes and standards. Check the mains voltage and frequency before installation.

The following safety precautions must always be observed:

- Please read the WARNING section carefully before installation.
- Please ensure you follow all safety precautions, as they contain critical safety information.
- Once you have read these instructions, keep them in a safe place for future reference.

6.2.1 Warnings

	The unit must be securely installed to prevent noise and vibration: Incorrect installation may cause the unit to fall, resulting in possible injury. The installation surface must be level and capable of supporting the weight of the unit, ensuring stable operation without excessive noise or vibration.
	When installing the unit in a small room, ensure there is adequate ventilation to prevent suffocation caused by refrigerant leaks.
	Always use the components supplied or specified for the installation: Using faulty parts may result in injury due to potential hazards such as fire, electric shock or the unit falling over.
	Do not remove the labels from the unit: These labels serve as important warnings and reminders, and keeping them intact helps to ensure safe operation.
	Indoor installation is mandatory: The unit must not be installed outdoors, in areas exposed to rain or in places where it may come into contact with water.
	It is recommended that you install the unit in a location away from direct sunlight and other sources of heat: If this is not possible, make sure the installation is covered to protect it.
	Make sure there are no obstacles around the unit to ensure proper airflow and access for maintenance.

6.2.2 Precautions

	Do not install the unit in areas where flammable gas leaks may occur. If gas builds up around the unit, it could cause an explosion.
	Never clean the unit whilst it is switched on. Always disconnect the power supply before cleaning or repairing the unit to avoid injury from the high-speed fan or electric shock.
	To switch off the appliance, unplug it from the mains socket or turn off the main switch if this is located upstream of the appliance.
	Never pull on the power cord to unplug it from the socket.
	Make sure the unit is switched off, unplugged or that the external switch is in the off position before cleaning or repairing it.
	If the unit is used without an exhaust duct, ensure that the installation room has a minimum volume of 10m³ and adequate ventilation. Please note that the temperature of the exhaust air is between 5 and 10°C lower than that of the intake air; therefore, unvented air can significantly lower the room temperature.
	Do not operate the unit if you notice any unusual noises or smells. Unplug the power supply immediately to avoid the risk of electric shock or fire.
	The unit contains moving parts. Please be careful with them, even when the device is switched off.
	Do not insert fingers or objects into the fan or evaporator.
	Take care when working near the compressor head and exhaust pipes, as they can become very hot.
	The aluminium fins on the heat exchanger are sharp and can cause serious injury. Handle with care.

6.3 HANDLING THE UNIT

The unit must be stored and handled in its shipping packaging in an upright position, and must be free of water. During transport (provided it is handled with care) and storage, it is recommended not to exceed an angle of inclination of 30 degrees (45° for short periods). The ambient storage temperature must be between -7°C and +45°C.

If the unit needs to be transported in a tilted position (at a maximum angle of 45° for a short period), it must be left to settle for at least one hour after reaching its final position before switching it on.

6.4 CLEARANCES (See also section 6.8)

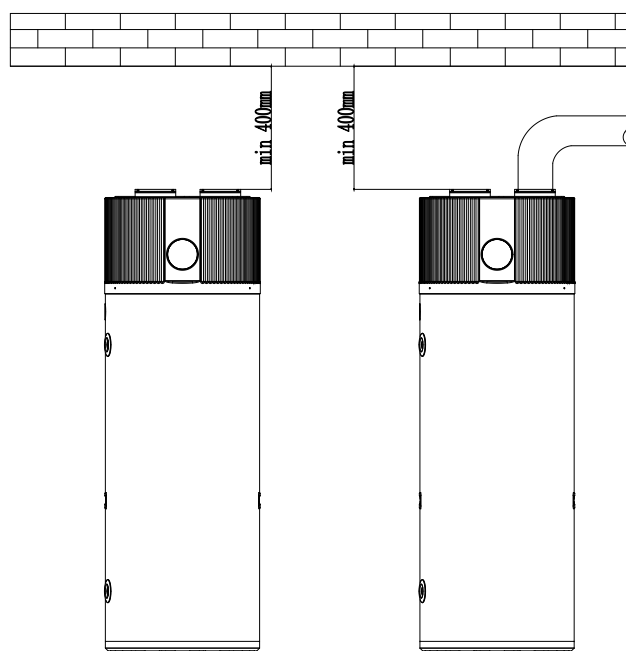
The minimum space required for servicing and maintenance of the unit is set out below. Furthermore, the recirculation of

exhaust air must be avoided, as failure to do so could result in poor performance or the activation of safety controls. For these reasons, it is essential to observe the following distances.

The installation of air inlet and/or outlet ducts will reduce the air flow rate and the capacity of the heat pump unit.

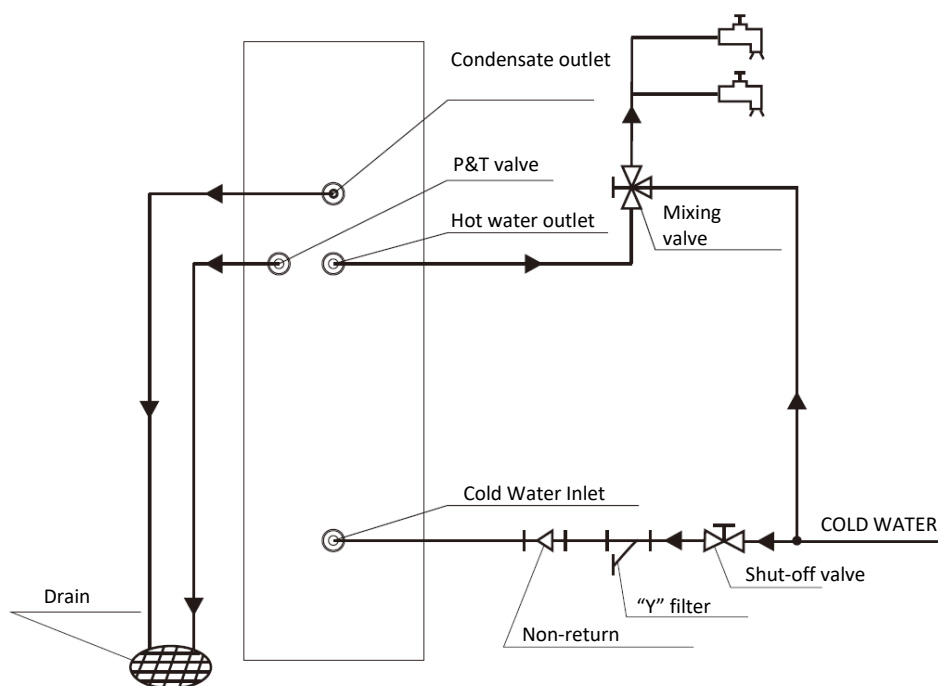
Please note that the unit's performance may be reduced if the air inlet is connected to a duct that draws air from outside, due to low temperatures in winter and high temperatures in summer. The optimum operating temperature is 20°C.

Please note that the unit is designed so that components requiring maintenance are accessible from the front. It is recommended that the spaces on the left and right sides be kept clear to facilitate the removal of the unit and to make maintenance work easier.



The maximum permitted length of the exhaust duct must be less than 2 metres, including the length of the inlet and outlet pipes.

6.5 GENERAL INSTALLATION DIAGRAM



1. The water inlet on this heat pump water heater must be fitted with a filter and a safety non-return valve. The pressure and temperature (PT) safety valve is included in the heat pump accessory kit. Otherwise, negative or excessive pressure may build up inside the water tank, which could cause damage to the tank.
2. This water tank is designed for a water pressure of ≤ 0.85 MPa. It is recommended that you manually open the safety valve's retaining rod every 1–2 months to force drainage and pressure relief, thereby preventing the valve from failing due to scale build-up.
3. The water tank must be securely fastened (for example, by fitting tank straps, not included) to prevent it from tipping over.
4. If the ambient temperature drops below 2°C and the heat pump is not going to be used for an extended period, drain all the water from the pipes and the tank, and then disconnect the power supply.
5. Check and replace the magnesium anode in the water tank every 2 years. Please contact our after-sales team to arrange a replacement. Always disconnect the heat pump from the mains power supply when the tank is empty.
6. Clean the inside of the water tank regularly to ensure the water remains hygienic.

6.6 HYDRAULIC CONNECTIONS.

Hydraulic connections must be made in accordance with national and local regulations. The connecting pipes must be able to withstand a minimum temperature of 100°C and a pressure of 10 bar. The choice of pipework should be based on the required water flow rate and the hydraulic pressure drops in the system. All pipes must be insulated. The unit must be connected to the pipes using flexible joints. The following components must be included in the pipework system (not included):

- Y-shaped metal filter (for installation in the inlet pipe) with a mesh size of no more than 1 mm
- Pressure reducer (recommended: 3 bar) if the water supply pressure exceeds 5.5 bar.
- Pressure and temperature relief valve.
- Shut-off valves to isolate the unit from the hydraulic circuit.
- Drain plug to facilitate maintenance work.
- Non-return valve.
- Expansion tanks, safety valves and air vents.

Make the connections, ensuring that the weight of the pipes does not overload the unit.

Check the water hardness; it must not be less than 12°f. In areas with particularly hard water, it is recommended that a water softener be used to ensure that the residual hardness is no higher than 20°f and no lower than 15°f.

WARNING: The water inlet pipe is the lower connection; otherwise, the unit may not function properly.

WARNING: A metal filter with a mesh size of no more than 1 mm must be fitted to the WATER INLET connection. If the filter is not fitted, the warranty will become invalid. The filter must be kept clean; install shut-off valves upstream and downstream of the filter to facilitate regular maintenance and cleaning.

Ensure that the drainpipes are correctly routed. If the drainage and outlet points are not correctly positioned, water leaks may occur and household goods may get wet and be damaged.

Hot water must be mixed with cold water before use at the tap; water that is too hot (over 50°C) in the heating unit may cause injury. We recommend installing a mixing valve.

Water may drip from the safety valve's drain pipe. This drainpipe must be kept clean and clear.

The pressure relief device, the PT valve, must be operated regularly to remove limescale deposits and to check that it is not blocked.



The diagrams are for illustrative purposes only. It is always necessary to assess the specific installation context and to have the system approved by a qualified installer.

6.6.1 Water pipes

Please note the following points when connecting the water circuit pipework:

- 1) Minimise losses in the pipework system wherever possible.
- 2) Make sure the pipe is clear of blockages and that the water flow is steady. Check the pipe carefully for leaks and insulate it properly.
- 3) Install an expansion tank of the correct size for the system.
- 4) Select the nominal pipe diameter based on the available water pressure and the expected pressure drop in the pipework system.
- 5) Flexible water pipes may be used. Make sure that all materials used in the pipework system are compatible to prevent corrosion damage.

6.6.2 Filling the unit

If the unit is being used for the first time or after the tank has been emptied, make sure the tank is full of water before switching the unit on.

- 1) Thoroughly bleed the system.
- 2) Open the cold water inlet and hot water outlet valves.
- 3) Start filling the tank with water. If water is flowing continuously from the hot water tap, the tank is full.
- 4) Close the hot water outlet valve to complete the water-filling process.



PLEASE NOTE: Operating the appliance without water in the tank may damage the auxiliary electric heater.

6.6.3 Emptying the tank

If the unit requires cleaning or maintenance, the tank must be emptied. This can be done via the water supply inlet connection or using a drain valve, as recommended at the start of this section (the installation of the drain valve is the responsibility of the user/installer).

- 1) Close the cold water inlet valve.
- 2) Open the hot water outlet valve and the manual drain valve.
- 3) Start draining the water.
- 4) Once the tank is empty, close the manual drain valve.

6.7 ELECTRICAL CONNECTION

Ensure that the supply voltage matches the unit's rated electrical specifications (voltage, phases, frequency) as indicated on the technical label. The appliance is supplied with a power cable and a Schuko plug; you must not alter the power cable or the plug. If necessary, please contact customer services. It is recommended that you check the main electrical circuit and ensure that it complies with current regulations.

Check that the electrical circuit is suitable for the unit's maximum power consumption (see the rating plate), both in terms of cable cross-section and compliance with the relevant standards.

	WARNING: The supply voltage must comply with the specified limits; otherwise, the warranty will be immediately void. Before carrying out any maintenance work on the unit, ensure that the power supply is switched off.
	WARNING: Voltage fluctuations must not exceed $\pm 10\%$ of the nominal value. If this tolerance is not met, please contact our technical department for assistance.
	The unit must be connected to a grounded power supply. Do not switch it on unless it is earthed.
	Do not use an extension lead to connect the appliance to the mains. If you do not have a grounded socket, ask a qualified electrician to install one.
	Do not attempt to move or repair the unit yourself. If the power cable is damaged, it must be replaced by the manufacturer, an authorised service agent or a qualified professional to avoid any risks. Incorrect handling or repair of the unit may result in water leaks, electric shocks, injury or fire.
	The power socket must be installed at a height above that of the unit's water connection point to prevent water from splashing onto the unit.

To access the electrical box:

- 1) Remove the front panel of the unit by unscrewing the side screws (using a suitable long screwdriver, you can do this from the front, even in built-in installations or when the unit is positioned close to a wall).
- 2) Remove the metal cover from the electrical box by unscrewing the four screws.
- 3) The unit comes with a pre-installed power cable connected to the electrical box. If you need to disconnect it and fit a longer cable, or connect a remote ON/OFF signal, please refer to the relevant diagram.

BEFORE STARTING UP THE MACHINE

- Please ensure you have the wiring diagram provided and the manual for the installed appliance.
- Please ensure you have the electrical and hydraulic diagrams for the system in which the unit is installed.
- Please check that all water connections are correctly installed and that all instructions on the unit's label are followed.
- Check the inlet water pressure to ensure it is sufficient (above 1.5 bar).
- Check that the shut-off valves on the hydraulic circuit are open.
- Make sure the hydraulic circuit is properly pressurised and bled.
- Please check that water is coming out of the hot water tap and that the tank is full before switching on the appliance.
- Please ensure that appropriate measures have been taken to drain the condensate.
- Check all electrical connections.
- Ensure that the electrical connections comply with current regulations, including proper earthing.
- Check that the voltage is within the tolerance range ($\pm 10\%$) of the value stated on the technical label.
- Check that there are no refrigerant leaks.
- Make sure that all the roof panels are correctly installed and securely fastened before starting the unit.
- Carry out a final check of the unit to ensure that everything is in order before switching it on. Check the indicator light on the control panel when the unit is running.

- Use the built-in control panel to switch on the unit.
- Listen carefully to the unit when you switch it on. If you hear any unusual noises, switch off the power immediately.
- Measure the water temperature to monitor any fluctuations.
- Once the operating parameters have been set (by qualified personnel only), they must not be altered by the user. If you need to adjust the settings, please contact a qualified technician.

	WARNING: Never switch off the unit using the main switch for a temporary shutdown. The main switch should only be used to disconnect the unit from the power supply during prolonged periods of inactivity or for maintenance/repair work.
	WARNING: Do not alter the unit's internal wiring, otherwise the warranty will be immediately void.

6.8 LOCATION AND FASTENING

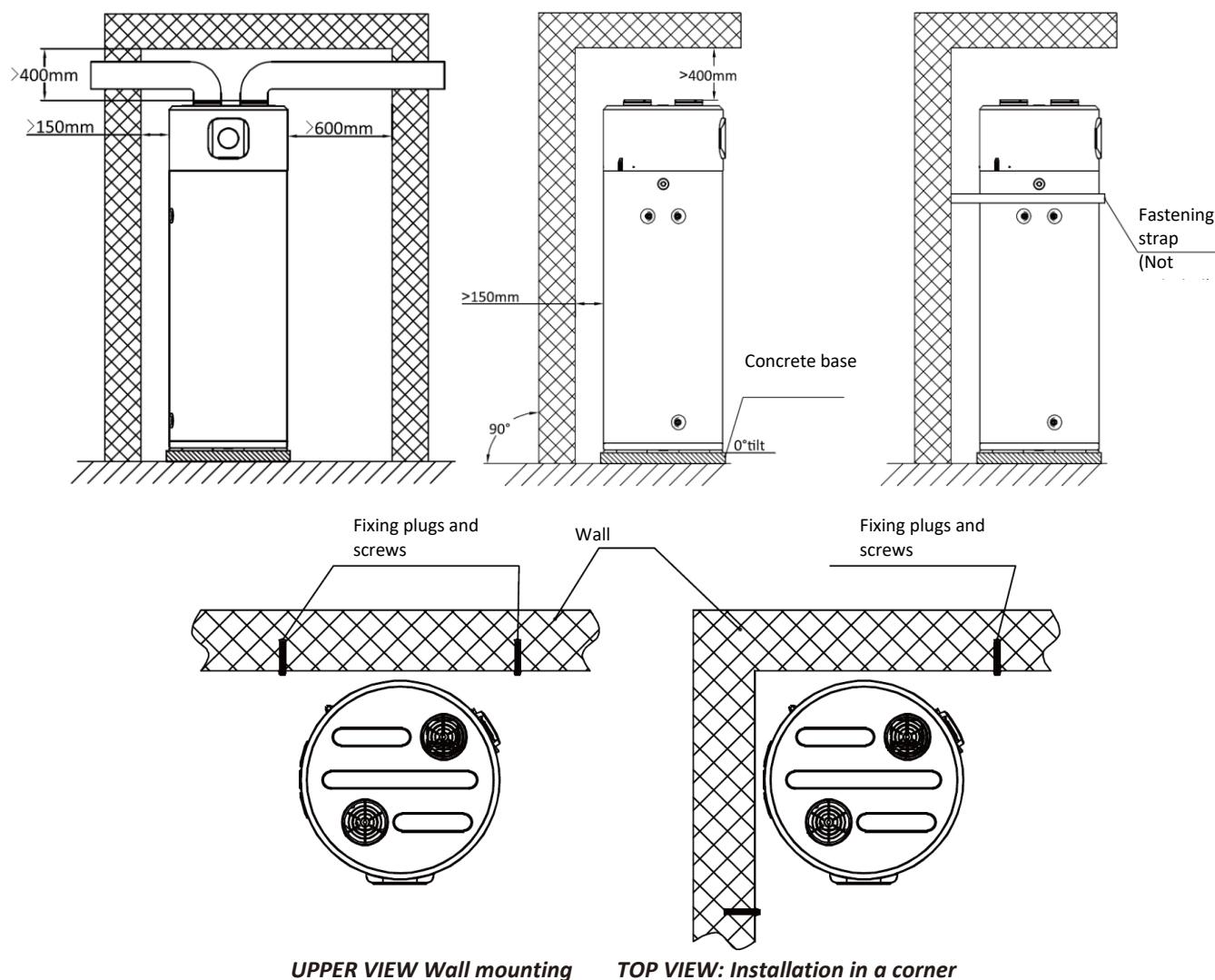
6.8.1 LOCATION

The unit must be installed on a concrete base or a stable structure capable of supporting weights in excess of 400 kg. It is essential that the support structure remains stable over time and does not shift, particularly due to factors such as water drainage.

Please ensure that all four legs of the unit are resting on the base you are using to avoid any potential issues with the warranty. Make sure there is adequate drainage to cope with any potential excess flow.

During installation, it is essential to position the unit so that it is completely vertical and level to ensure proper drainage of condensate. If the system is installed at an angle greater than 3°, the warranty may be invalidated.

We recommend fitting a securing strap (not included) as shown in the illustration.



To secure the fixing strap, use a system of wall plugs and screws suitable for the type of wall on which it is being installed.

Do not install the unit in areas where there is a risk of debris, such as leaves, falling onto it, as this could block the air vents or cause damage to the unit.

When installing the unit, please ensure you meet the following space requirements. Incorrect installation may invalidate the warranty or result in additional charges to ensure the system complies with specifications.

6.9 MAINTENANCE

6.9.1 Check the anode and replace it if necessary

The anode is a crucial component that protects the inner lining of the hot water tank. Over time, it may deteriorate, reducing its protective properties. It is advisable to check the anode regularly for signs of deterioration and replace it if necessary. To do so:

1. Switch off the power and close the cold water inlet valve.
2. Turn on a hot tap to empty the tank.
3. Locate the position of the anode.
4. Remove the anode cover by loosening the six screws.
5. Unscrew the anode.
6. Check it for signs of wear and tear.
7. If it is still in good condition, reinstall it to ensure an effective seal.
8. If the anode is not in good condition, replace it with a new one.

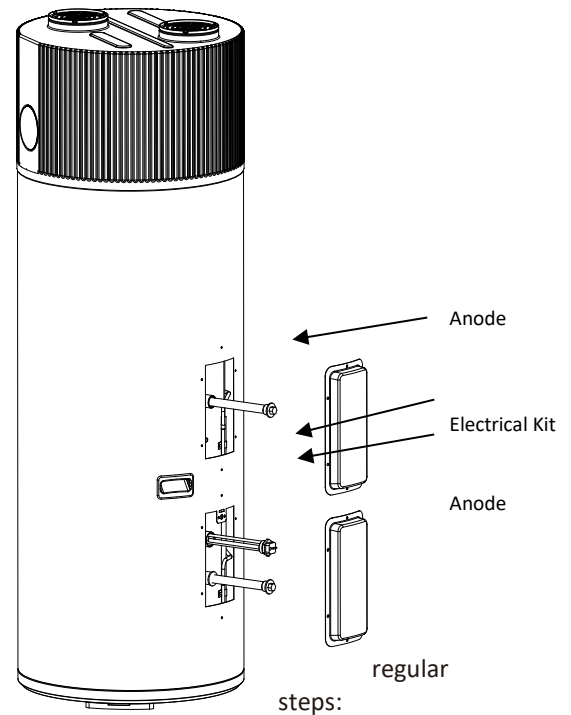
Failure to replace the anode when necessary will invalidate the warranty on the water tank.

9. Open the cold water inlet valve again.
10. Turn on a hot tap until water comes out, then turn the tap off.
11. Switch on the unit to restart it.
12. You can now use the drive as normal again.

6.9.2 Cleaning the inner tank and the heating element

To ensure your water heater runs efficiently, it is essential to carry out maintenance on the inner tank and the heating element. Follow these

1. Disconnect the water heater from the mains.
2. Close the cold water inlet valve and turn on a hot tap to start draining the tank.
3. Attach a flexible hose to the outlet of the drain valve and connect it to a suitable waste water drain. Make sure that the hose you use can withstand temperatures of at least 34°C. If the drain hose does not meet this requirement, open the cold water inlet valve and the hot water tap until the water temperature is safe for the hose.
4. Open the drain valve on the water heater and allow all the water to drain out of the tank. If necessary, rinse the inner tank with water several times to remove any limescale.
5. After cleaning the tank, close the drain valve.
6. Open the cold water inlet valve again.
7. Turn on a hot tap until water comes out, then turn the tap off.
8. Switch on the unit to restart it.
9. You can now use the drive as normal again.



7. OPERATION AND COMMISSIONING

7.1 USER INTERFACE



7.2 FUNCTIONS

Name/Icon	Function/description
On / Off	1. Press the button to switch it on or off. 2. On the search interface, click this button to return to the main interface. 3. In the settings screen, tap this button to return to the main screen. If there is no activity for 60 seconds, the system will automatically return to the main interface, the screen will turn off and the keyboard will be locked. 4. Press and hold for 3 seconds to unlock the keypad.
Timer/clock 	1. On the main screen, tap to access the clock settings and tap to switch between "hour" and "minute". 2. On the main screen, press and hold for 3 seconds to turn the timer on or off. 3. On the timer interface, tap to switch between "hour" and "minute". 4. On the timer screen, press and hold for 3 seconds to cancel the current timer. 5. On the clock settings screen, press and hold for 3 seconds to enable or disable the weekly timer.
Mode 	1. On the main screen, press and hold for 5 seconds to access the settings menu. 2. On the power interface, press to change the operating mode (STAN, HYB1, ELE). 3. On the parameter view interface, tap to enter/save parameters.
Top 	1. On the main screen, with the unit switched on, press to adjust the temperature. 2. On the main screen, press and hold for 3 seconds to access the settings menu. 3. On the query interface, click to select the parameter. 4. In the settings interface, click it next to  to change the settings. 5. Change the settings on the timer and clock.
Bottom 	1. On the main screen, with the unit switched on, press to set the temperature 2. On the main screen, press and hold for 3 seconds to access the settings menu. 3. On the query interface, click to select the parameter. 4. In the settings interface, click it next to  to change the settings. 5. Change the timer and clock settings.
Power + Up 	Press and hold for 5 seconds to access the smart Wi-Fi connection.
Mode + Down 	Press and hold for 5 seconds to open the manual network connection app.
Mode + Up 	On the power interface, press and hold for 3 seconds to turn "Quick Heat" on or off.
Mode + Down 	On the main interface, whilst the unit is switched on, press and hold for 5 seconds to switch "forced defrost" on or off.
Up + Down 	1. Press and hold for 5 seconds to manually switch the ventilation function on or off. 2. On the main interface, whilst the unit is switched on, press and hold for 3 seconds to activate the "Ventilation" function; the high-speed fan symbol will flash once every second. 3. On the main screen, press and hold for 3 seconds again; the low-speed fan symbol will flash every 2 seconds 4. Press and hold for 3 seconds again to exit "Ventilation" mode.

Power + Clock + Down   	Press and hold for 5 seconds to turn the "Sterilisation or Legionella function" on or off.
Power + Mode + Up + Down    	Within 5 minutes of connecting the power supply, press and hold the button for 5 seconds to restore the factory settings.

7.3 DISPLAY ICONS

Symbol	Status	Function or meaning
	Switched off	When switched off, the unit is not in water heating mode.
	Switched on	Water heating mode.
	Switched on	ELE mode (Auxiliary heater only)
	Switched on	HYB1 mode (Auxiliary heater + Heat pump)
	Switched on	Sterilisation (Auxiliary heating + Heat pump)
	Flashes	Pairing Wi-Fi
	Switched on	Wi-Fi is connected correctly
SET	Switched on	Configuration
°C	Switched on	Displays the temperature in degrees Celsius
MIN	Switched on	Unit of measurement (minute)
8888	Switched on	Displays the current temperature and the set temperature
	Switched on	Frost protection mode activated
AUTO	Switched on	Maintenance mode enabled: Displays the version and number of the configuration tool
	Switched on	Active defrosting in progress
	Switched on	Active Alarm
	Switched on	Locked screen
	Switched on	Compressor running
	Switched on	Fan running at high speed
	Switched on	Fan running at low speed
	Flashes	Fan mode activated – High speed
	Flashes	Ventilation mode activated – Low speed
88:88		Clock, operating mode and error code
	Switched on	Timer activated
ON	Switched on	Operating on a timer, in a programmed cycle.
	Flashes	Set the timer start time
OFF	Switched on	Operating on a timer; current section is off.
	Flashes	Set the timer's end time
1 3 2	On / off	When timer 1, 2 or 3 is set, or a time period is entered, the icon remains lit. Otherwise, it remains off.

7.4 HYBRID HEATING MODE (heat pump + electric heater)

Funcionamiento: On the power interface, press  +  for 3 seconds to enter or exit hybrid heating mode.

When the electric heater is switched on, ; when the electric heater is not switched on,  it flashes every second.

Deactivation The hybrid heating mode can be switched on or off.



7.5 FORCED DEFROST FUNCTION

Funcionamiento: When the heat pump is switched on and not in cooling mode, press  +  for 5 seconds to enter forced defrost mode. On the LCD screen, the defrost icon  will light up.



7.6 CHECKING OPERATING PARAMETERS

To access the consultation: In the standard interface, tap  or  for 3 seconds to access the parameter query interface. The temperature display area will show the parameter number, and the timer area will show the parameter value.



Things to see and do: Once you have accessed the parameter query interface, click  or  for each parameter. Press  or do not press any option for 60 seconds and you will automatically exit the parameter display interface.

7.6.1 Parameter table

Description	Label	Notes
Refrigerant cycle/water cycle	00	0 = Water cycle; 1 = Refrigerant cycle
High-pressure switch	01	0 = Open; 1 = Closed
Reserved	02	Reserved
Reserved	03	Reserved
Electronic expansion valve Measured value	04	MEASURED VALUES
Coil temperature	05	MEASURED VALUES
Room temperature	06	MEASURED VALUES
Intake temperature	07	MEASURED VALUES
Exhaust temperature	08	MEASURED VALUES
Inlet water temperature (tank temperature)	09	Value displayed = Measured value + Offset value
Reserved	10	Reserved
Compressor	11	0 = Stop; 1 = Start
Four-way valve	12	0 = Stop; 1 = Start
High-speed fan	13	0 = Stop; 1 = Start
Reserved	14	Reserved
Reserved	15	Reserved
Electrical heater	16	0 = Stop; 1 = Start
Total operating time of the compressor prior to defrosting	17	MEASURED VALUES
Interlock switches	18	0 = Open; 1 = Closed
Current model Tool value	19	Tool 22
Reserved	20	Reserved
Reserved	21	Reserved
Reserved	22	Reserved
Reserved	23	Reserved
Reserved	24	Reserved
Reserved	25	Reserved
Reserved	26	Reserved
Reserved	27	Reserved
Reserved	28	Reserved
Reserved	29	Reserved
Reserved	30	Reserved

7.7 CLOCK SETTINGS

7.7.1 Clock adjustment procedure

When the heat pump is switched on, press  to set the clock; the time icon will flash.

Once you are in the watch settings menu, press  to set the hour and minutes. The hour and minute icon will flash. Tap  or  to adjust the value. Tap  or  to save and exit, or do nothing for 5 seconds, and it will save and exit automatically.



7.7.2 Setting the timer

Up to three time slots can be set, and a "start time" and "end time" can be set for each slot.

On the home screen, press  3 seconds to activate the timer.

On the timer settings screen, press  for 3 seconds to cancel the timer settings.

Press , the "1" and "ON" icons are displayed and the time icon is flashing, this means you are setting the first timer segment.

While the time icon is flashing, press  or  to adjust the value, press  to confirm and move to the minutes setting.

With the minutes icon flashing, press  or  to adjust the value; press  to confirm and continue setting the stop time. The screen will display the "1" and "OFF" icons, and the time icon will flash.

Tap  or  to change the hour, then press  to confirm and move on to setting the minutes. With the minutes icon flashing, press  or  to adjust the value; press  to confirm and activate Section 1 Timer

The interface for entering the settings for section 2 will appear automatically. The adjustment for sections 2 and 3 is the same as that for section 1.

On the timer settings screen, press  or wait 60 seconds without performing any operation to exit the timer and leave.

The  and "OFF" will be displayed during the off period, and the icon  and the current operating stage "1/2/3" and "ON" will be displayed during the on period.



7.8 WIFI FUNCTION

Press  +  for 5 seconds to enter the Smart network manual setup. The WiFi icon will flash every second.

Press  +  for 5 seconds to enter the manual AP network configuration. The WiFi icon will flash every 2 seconds.

To download and use the app, please refer to section 9 on WiFi operation.



7.9 Restore Factory Settings.

Within 5 minutes of switching on, press     for 5 seconds to restore the factory settings. The doorbell rings. The settings are successfully reset after two beeps.

7.10 USER-DEFINED SETTINGS

On the main interface, tap  +  for 5 seconds to access the user settings interface.

CODE	DESCRIPTION	By default	RANGE	NOTE
F01	Heating temperature	55°C	STAN: 15-65 C HYBI: 15-75 C ELE 15-75 C	
F03	Water temperature difference	5°C	1-15 C	STAN: F03 HYBI: F03 ELE F03+5°C
F10	Ambient temperature at which the electric heater switches on	2°C	-30 –35°C	Deactivated at -30°C
F13	Automatic hybrid heating function	1	0-1	0: Deactivated 1: Activated
F14	Hysteresis in water temperature control in hybrid heating systems	40	2-70 C	
F48	Adjusting the power switch	0	0-1	0: Deactivated 1: Activated
F65	Smart booking feature	0	0-1	0: Deactivated 1: Activated
F66	Electric sterilisation function	1	0-1	0: Deactivated 1: Activated
F69	Automatic sterilisation cycle	7	1-20 days	

7.11 SYSTEM FAILURES AND ERROR CODES

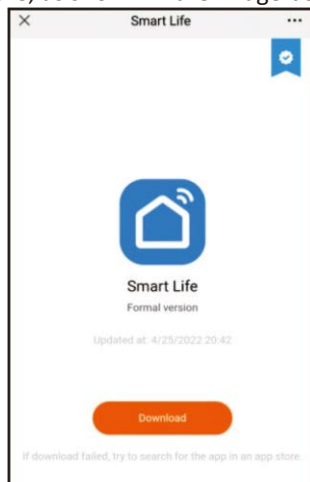
When the unit has a fault, the error code is displayed in a loop in the timer area, the fault code is shown in a loop, and the icon  flashes and the normal display is restored once the fault has been cleared. The error codes are described in the table below.

Error code	PROTECTION / FAULT	POSSIBLE CAUSE
E12	Protection against high exhaust temperatures	The coolant system is blocked. Low coolant level or faulty T3 sensor
E05	Protection of the high-voltage switch	1. Damaged pressure switch, wiring fault CN111(HP) 2. Too much coolant 3. Check that the fan is working properly 4. Air ingress or a blockage in the fluorine system. 5. If the water tank is made of solid masonry 6. The water tank temperature sensor is faulty.
E09	Communication failure between the motherboard and the controller	Check the communication connection between the cable controller and the CN17 (COM1) main board
E16	Fault in the coil temperature sensor	1. The sensor cable is disconnected or short-circuited 2. The sensor is damaged 3. The CN1 (T1) port on the motherboard is damaged.
E21	Failure of room temperature sensor	1. The sensor cable is disconnected or short-circuited 2. The sensor is damaged T2 3. The CN1(T2) port on the motherboard is damaged.
E18	Exhaust sensor fault	1. The sensor cable is disconnected or short-circuited 2. The T3 sensor is damaged 3. The CN1(T3) port on the motherboard is damaged.
E14	Tank sensor fault	1. The sensor cable is disconnected or short-circuited 2. The T4 sensor is damaged 3. The CN2(T4) port on the motherboard is damaged.
E29	Fault with the intake sensor	1. The sensor cable is disconnected or short-circuited 2. The T5 sensor is damaged 3. The CN1(T5) port on the motherboard is damaged.
E44	Protection against low ambient temperatures	1. When the ambient temperature is $\leq -9^{\circ}\text{C}$, the compressor cannot operate. 2. When the ambient temperature is $\geq -7^{\circ}\text{C}$, the error will clear and operation will resume.

8. WIFI FUNCTIONALITY

8.1 DOWNLOAD THE APP REGISTER

Download the "Smart Life" app from the app store, as shown in the image below.



8.2 NETWORK CONTROLLER SETUP

STEP 1

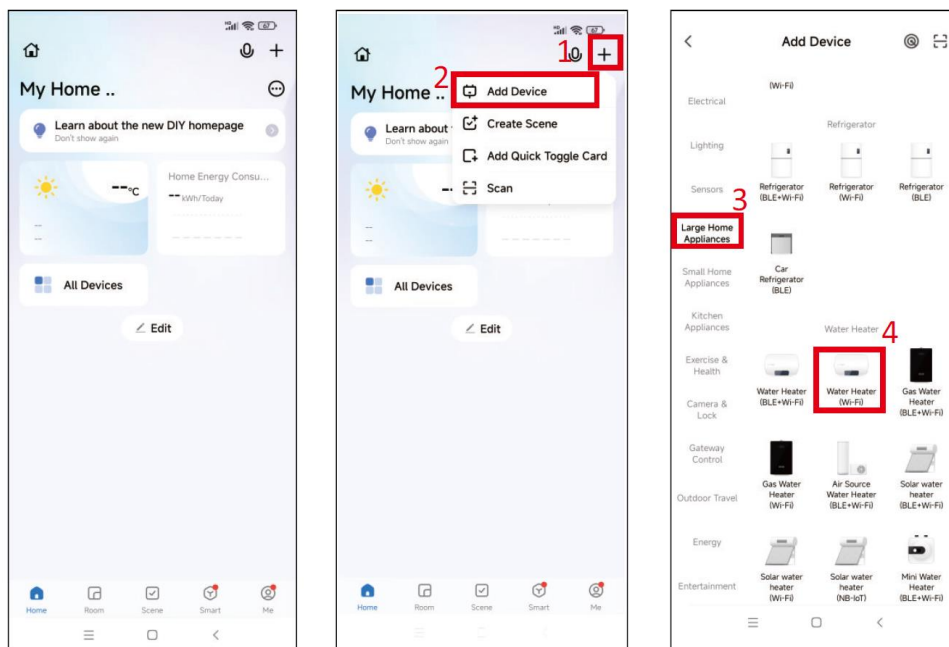
- 1) The device is ready to connect within 10 seconds of being switched on. After 10 seconds, manual intervention is required.
- 2) Press  +  for 5 seconds to start the network setup.
- 3) Setup mode will exit after 3 minutes. To reconnect, press  +  for 5 seconds again.

PASO 2

Turn on Wi-Fi on your smartphone and connect it to the internet.

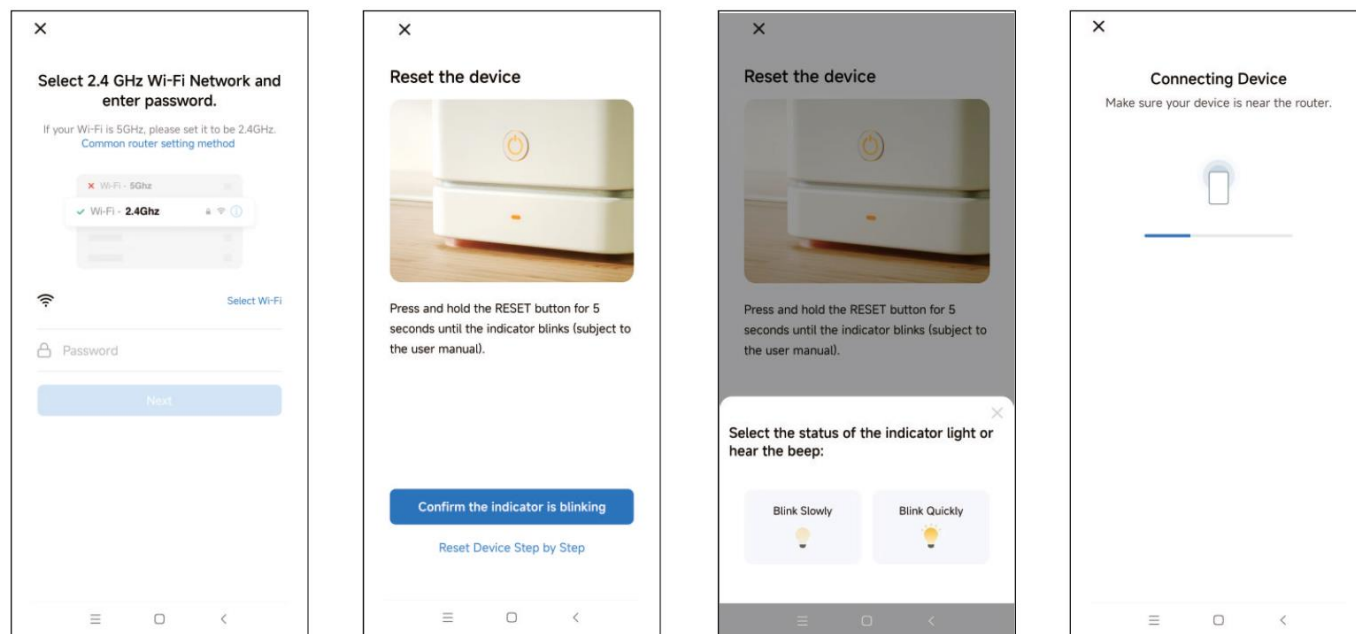
PASO 3

Open the "Smart Life" app, log in and tap the "+" icon, select "**Add Device**" and choose "**Water Heater**" from the "**Major Appliances**" category to add the device.



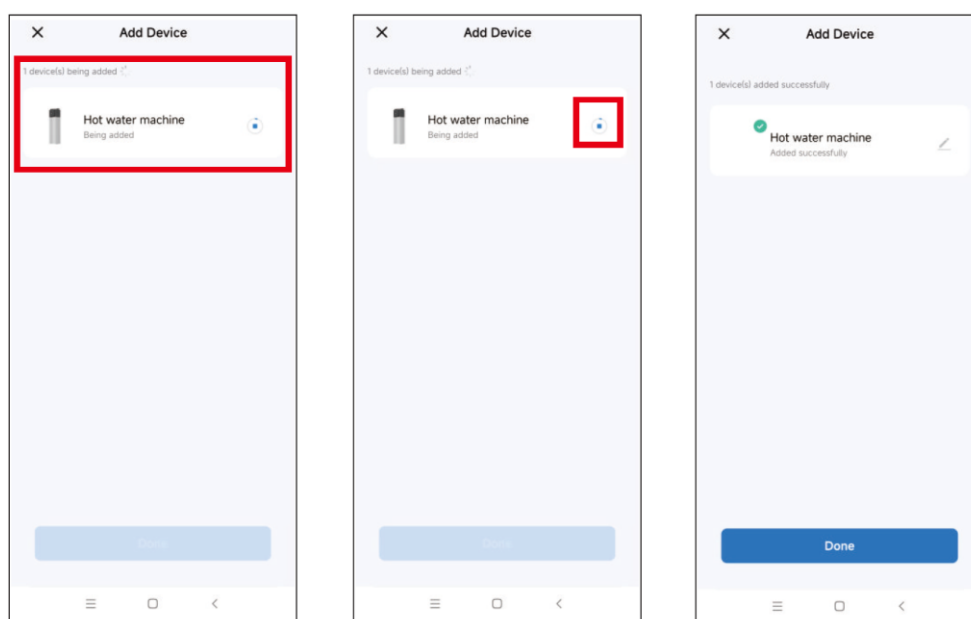
STEP 4

- 1) Once you have selected the heat pump, go to the Wi-Fi connection interface, enter the Wi-Fi password (it must match your phone's Wi-Fi network) and tap "**Confirm**".
- 2) On the "**Add Device**" interface, make sure the controller is in Smart Network mode, then tap "**Confirm the indicator is blinking**" to start connecting the device.



STEP 5

Once "**Device Found**", "**Device Registered to Smart Cloud**" and "**Device Initialisation**" have been completed, the connection will have been established successfully and the app will display "**Device Added Successfully**". You can rename the device and click "**Finish**" to access the device's user interface.



9. MAINTENANCE AND PERIODIC INSPECTIONS

	WARNING: All operations described in this chapter MUST be carried out by qualified personnel only. Before carrying out any work or accessing the internal components of the unit, ensure that the power supply is switched off. The compressor head and discharge pipes usually operate at high temperatures. Take every precaution when working in the vicinity. The fins on the aluminium coils are very sharp and can cause serious injury; handle them with care. Once you have completed the maintenance procedures, replace the cover panels and secure them with screws where appropriate.
	WARNING: Install the unit with sufficient clearance to allow for maintenance and repairs. The warranty does not cover the cost of platforms or handling equipment required for maintenance.
	The refrigerant circuits must only be filled with the gas specified on the rating plate (R290). Using a different refrigerant can cause serious damage to the compressor. Only the oils specified in this manual should be used. Using the wrong type of oil can seriously damage the compressor.
	If the outlet water is at the correct temperature, it is recommended that you set a lower temperature to reduce heat loss, prevent limescale build-up and save energy.

Regular checks should be carried out to ensure that the unit is working properly.

CHECK	1 month	4 months	6 months
Check the water supply and air vent regularly to ensure there is no shortage of water or air in the water circuit. Make sure the tank is always full of water.	×		
Check that the safety and control devices are working properly.	×		
Check the compressor for oil leaks.	×		
Check the hydraulic system for any water leaks.	×		
Check that the external flow switch is working properly (if fitted).	×		
Clean the metal filters in the hydraulic system to ensure good water quality. A lack of water or dirty water can damage the unit.	×		
Use compressed air to clean the finned coils of the heat exchanger. We recommend storing the unit in a dry, clean and well-ventilated place.	×		
Check that the electric heater for the anti-Legionella cycle (*) is working properly. Make sure that diagnostic water samples are taken at critical points throughout the hydraulic circuit.		×	
Make sure that all the terminals on the electrical panel and the compressor terminals are securely fastened.		×	
Make sure that all electrical components are in good condition. If any part is damaged or gives off a strange smell, replace it immediately.		×	
Tighten all water connections as required.		×	
Wipe the unit with a soft, damp cloth.		×	
Clean the tank and electric heater regularly to ensure they continue to work properly.		×	
Clean the grille on the external air duct regularly to ensure it works efficiently.		×	
Check that the unit is operating at the correct voltage and current draw.			×
Inspect each component of the unit and check the system pressure.			×
Replace any faulty parts and top up the coolant if necessary.			×
Check the operating pressure and the superheat and subcooling temperatures.			×
Assess the efficiency of the circulation pump.			×
If the heat pump is not going to be used for an extended period, drain all the water from the unit and seal it to keep it in good condition. In winter, drain the water from the lowest point of the boiler to prevent it from freezing. Before restarting the unit, top up the water, carry out a disinfection and perform a full inspection.			×
Check the magnesium anode rod and replace it if necessary.			Annually

(*) Checking that the electric heater is working properly: To check that the electric heater is working, select "E-heater" mode and monitor the rise in the water temperature in the tank.

10. TROUBLESHOOTING

This section provides a useful guide to diagnosing and resolving the most common problems that may arise. Before beginning the troubleshooting process, carry out a thorough visual inspection of the unit to check for any obvious faults, such as loose connections or faulty wiring.

Please read this chapter carefully before contacting your local dealer, as it may save you time and money.



When inspecting the unit's electrical box, ensure that the main switch is in the 'off' position before proceeding.

The guidelines below may help you resolve your issue. If you are unable to resolve the issue, please contact your local installer or dealer.

- There is no image on the control panel display: Make sure the mains power supply is properly connected.
- Error code screen (see section 8.11): If an error code appears, please contact your local dealer for assistance.
- Problem with the scheduled timer (actions carried out at the wrong times): If scheduled tasks are running too early or too late (for example, 1 hour off), check that the time and day settings are correct. Set the time and day of the week as required.

11. ENVIRONMENTAL PROTECTION AND END-OF-LIFE MANAGEMENT

	This unit contains R290 refrigerant; the quantity complies with the specifications. Do not release R290 into the atmosphere: R290 is flammable and can form an explosive mixture when mixed with air, which is highly likely to cause serious safety incidents such as fires and explosions if not handled correctly. It must only be repaired or dismantled by qualified personnel.
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To ensure this product is disposed of correctly at the end of its useful life, please contact the company that installed it or the local authority responsible for waste electrical equipment containing refrigerants.

As R290 is flammable and explosive, it must not be released directly into the atmosphere. If this happens and the substance accumulates in the local area until it reaches the explosion limit, it may cause an explosion if it comes into contact with a flame or spark.

At the end of its service life, R290 gas must be collected and disposed of in accordance with current legislation, for recycling or proper disposal, and to ensure safety.

When the unit reaches the end of its service life and needs to be taken out of service or replaced, the following steps are recommended:

- The refrigerant must be recovered by qualified personnel and sent to an authorised collection centre.
 - The compressor lubricating oil must be collected and disposed of properly at an authorised facility.
 - The casing and other components, if no longer of use, should be dismantled and sorted by material type, particularly copper and aluminium, which are present in significant quantities in the unit.
 -
- These processes facilitate the recovery and recycling of materials, thereby reducing the environmental impact. The user is responsible for ensuring that this product is disposed of correctly in accordance with current regulations.

	If the appliance is taken out of service incorrectly, this may cause significant environmental damage and pose a risk to people's safety. It is therefore mandatory that the unit be removed only by authorised personnel who have completed technical training courses.
	You must observe the same safety precautions as those set out in the previous sections.
	Take every precaution when removing the refrigerant gas to ensure safety and Environmental compliance
	Illegal disposal of the product by the end user may result in penalties in accordance with current legislation.

EN



The symbol on the product or on its packaging indicates that this product cannot be treated as normal household waste. This product should be delivered to the collection point for electrical and electronic equipment for recycling. By ensuring this equipment is disposed of correctly, you will help prevent potential negative consequences to the environment and public health, which could occur if this product is mishandled. For more detailed information about the recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product. These provisions apply only in EU member states.

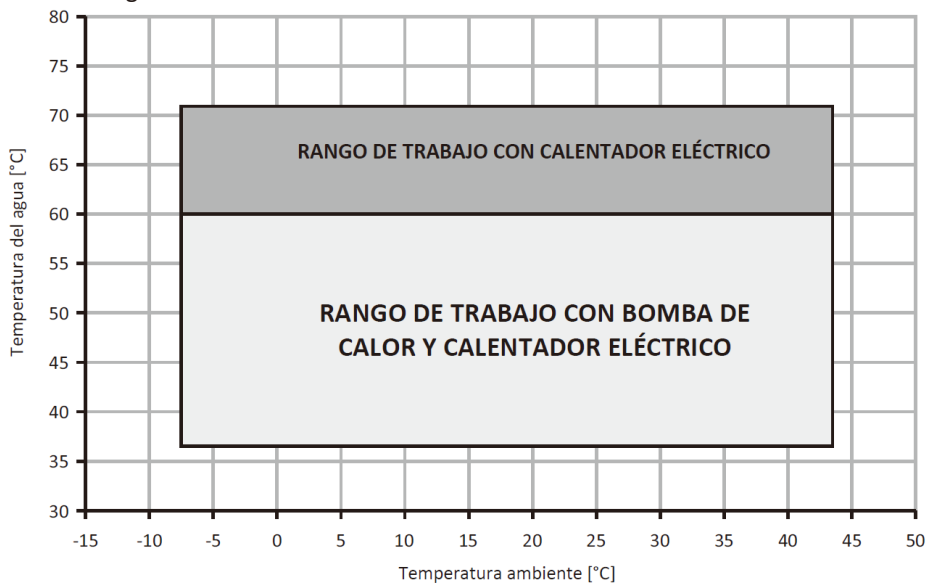
12. TECHNICAL SPECIFICATIONS

Models		TAG-200	TAG-300
Nominal heating power *	kW	1.6	
Load profile****	/	T	XL
Heating power (7/6°C)**	kW	1.23	1.3
COP (7/6°C)****	W/W	2.934	3.150
Energy Rating (7/6°C)****	/	A+	
Backup power input (7/6°C)***	W	30	
Sound power level	dB(A)	55	
Electrical power supply	V/F/Hz	220/240-1/50	
Nominal power	W	2,500	
Rated current	H	11.0	
Maximum water temperature (without using a booster heater)	°C	65	
Maximum water temperature:	°C	75	
Temperature adjustment range	°C	15-75	
Nominal water flow rate*	l/h	34.4	
Operating temperature	°C	-7~46	
Inlet water temperature	°C	9~55	
Maximum discharge pressure	bar	30	
Maximum suction pressure	bar	10	
Type of coolant	/	R290	
Coolant load	g	150	
Airflow	m³/h	500	
Pipe diameter	mm	150	
Maximum permissible tank pressure	bar	10	
Material of the water tank	/	Stainless steel	
Hot water outlet	Pulg	3/4" female thread	
Cold water inlet	Pulg	3/4" female thread	
Drain size	Pulg	3/4" female thread	
Condensate drain	Pulg	G 1/2 female thread	
Heat pump coil material	/	Microchannel	
Indoor unit protection (IP xx)		IPX1	
Water tank capacity	T	200	300
Net dimensions	mm	Ø5701,720	Ø6501,826
Packaging dimensions:	mm	640-640-1,850	720-720-1,956
Net weight	kg	66	80
Gross weight:	kg	81	100
Features included:		Domestic hot water heating	
		1.5 kW auxiliary electric heater	
		Electronic expansion valve	
(*) Power ratings and power inputs based on the following conditions: Heating Ambient temperature 20°C/15°C, Water temperature 15°C to 55°C.			
(**) Capacities and heating times based on ERP (EN 16.147) for Phase A			
(***) Standby power consumption based on ERP (EN 16.147) for Phase B;			
(****) COP and energy class based on ERP (EN 16147) for Phase C with load profiles M / L / XL			
(*****) Noise testing is carried out in accordance with EN 12.102 using water at 50°C.			

13. OPERATING LIMITS OF THE HEAT PUMP

It is recommended that the unit be used within the operating limits specified below to prevent the safety and protective devices from being triggered.

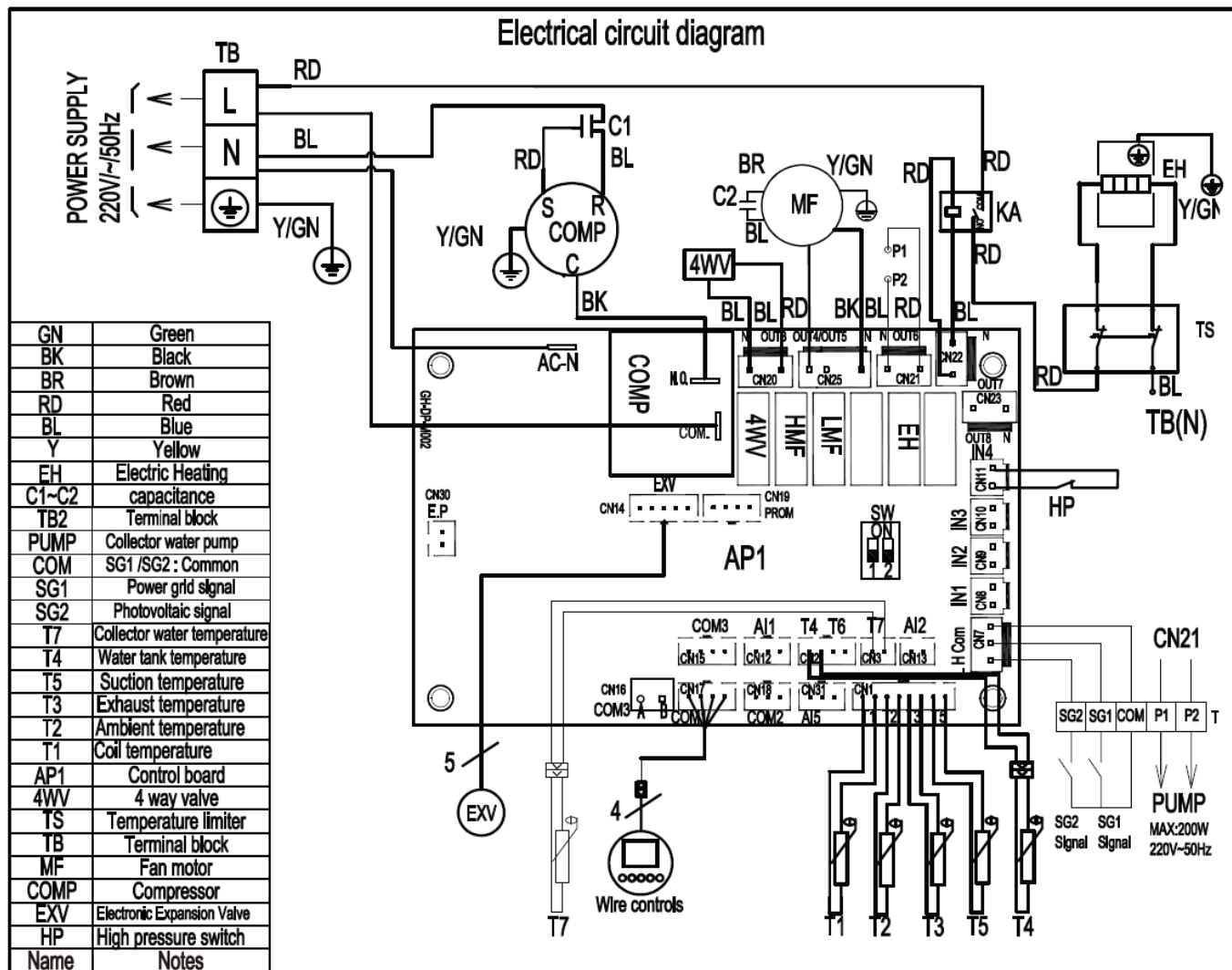
If the water temperature exceeds the operating range, the unit will automatically adjust the water temperature to comply with the limits shown in the diagram below.



Fixed pressure switch settings:

- HP switch: OFF=25 bar, ON=18 bar
- LP switch: OFF=0.2 bar, ON=1 bar

14. ELECTRICAL DIAGRAM



NOTES



ELNUR S.A.
11 Travesía de Villa Esther
28110 Algete - Madrid

Tel. Customer Service:
(+34) 91 628 1440

www.elnurgabarron.es
www.elnurgabarron.com
www.elnur.co.uk

