

USER MANUAL

Nano 3 portable gas water heater



Attention: Before using the appliance for the first time, please install the batteries correctly according to the positive and negative poles.
Please read this manual carefully before use and keep it properly for further reference.



Instructions for Use

-Outdoor use only-

- THIS APPLIANCE IS INTENDED FOR THE SUPPLY OF HEATED WATER FOR THE PURPOSE OF WASHING AND CLEANING ONLY.
- THIS APPLIANCE IS NOT INTENDED FOR THE SUPPLY OF DRINKING WATER.
- NOT FOR HOME OR RECREATIONAL VEHICLE USE.
- THE WATER HEATER IS FOR POINT OF USE, FOR TEMPORARY WATER HEATING AND NOT FOR CONNECTION TO A PERMANENT INLET WATER CONNECTION OR FOR CONNECTION TO A WATER DISTRIBUTION SYSTEM TO SUPPLY MULTIPLE OUTLETS.



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1. Warning

DANGER

CARBON MONOXIDE HAZARD

- When the water heater starts to heat water, propane inside may produce carbon monoxide during combustion.
- Using it in an enclosed space can cause death.
- Never use this appliance in an enclosed space such as a camper, tent car or home.



EXPLOSION-FIRE HAZARD

- Never store propane near high heat, open flames, pilot lights, direct sunlight, or other ignition sources or where temperatures exceed 120°F(49°C)
- During operation, this product can be a source of ignition.
- Never use this appliance in spaces that contain or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinners, dust particles or unknown chemicals.

Water temperatures over 125°F(52°C) can cause severe burns instantly or death from scalds. Children, the disabled, and the elderly are at the highest risk of being scalded. See the instruction manual before setting the temperature at the water heater. Feel water before bathing or showering.



WARNING

YOUR SAFETY IS IMPORTANT, SO PLEASE READ THESE INSTRUCTIONS BEFORE OPERATION.

- This manual contains important information about the assembly, operation and maintenance of this appliance.
- Safety precautions are essential when any mechanical or propane fueled equipment is involved. These precautions are necessary when using, storing and servicing.

Following these safety alerts will reduce the possibility of personal injury or property damage.

- Propane cylinders must be disconnected when this appliance is not being used or when storing this appliance.
- Cylinders must be stored outdoors in a well-ventilated space and out of reach of children.

 WARNING

- Only use this appliance in well-ventilated areas. It should only be operated in an above-ground, open-air situation where there is natural ventilation, no stagnant areas, and where gas leakage and/or products of combustion will be promptly diffused by wind and natural convection.
- Not for home or recreational vehicle use.
- The water heater is for point of use, for temporary water heating and not for connection to a permanent water inlet connection or for connection to a water distribution system to supply multiple outlets.
- Do not operate this appliance where flammable liquids or vapors may be present.
- This appliance shall only be used with the regulator supplied with the appliance. Do not attempt to adjust.
- Any alteration to the appliance or its controls can cause unforeseen serious hazards and will void the warranty. **DO NOT MODIFY THIS APPLIANCE.**
- Never install or remove propane tank while this appliance is operating, near flame, other ignition sources or while this appliance is hot to the touch.

 WARNING

- This appliance is not intended for the supply of drinking water. Drinking water heated by this appliance can cause health risks.
- This appliance is intended for the supply of heated water for the purpose of washing and cleaning only.
- Check and confirm safe water temperature before using this appliance. Water from this appliance may be very hot.

 WARNING

If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odor continues, keep away from the appliance and immediately call the fire department. Failure to follow these instructions could result in fire or explosion which could cause property damage, personal injury or death.

 WARNING

1. Never store propane near high heat, open flames, pilot lights, direct sunlight, other ignition sources or where temperatures exceed 120°F(49°C).
2. Propane is heavier than air and can accumulate in low places. If you smell gas, leave the area immediately.
3. Never install or remove propane tank while this appliance is operating, near flame, pilot lights, other ignition sources or while this appliance is hot to touch.
4. During operation, this appliance can be a source of ignition. Never ignite or use this appliance in spaces that contain or may contain volatile or air-borne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals. Minimum clearances from combustible materials: 12 inches (30.5cm) from sides & 48 inches (122 cm) from the top.
5. Provide adequate clearances around air openings into the product. Do not obstruct the flow of combustion and ventilation air.

 WARNING

1. Failure to comply with the precautions and instructions provided with this product can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, and/or carbon monoxide poisoning.
2. Only persons who understand and follow the instructions can use or service this product.
3. If you need assistance or information such as an instruction manual or labels, please contact CAMPLUX.

 WARNING

1. Never leave this appliance unattended when hot or in use.
2. Do not touch metal parts and venting holes of the appliance which may get very hot when in use. Keep out of reach of children.
3. THIS APPLIANCE IS NOT INTENDED FOR THE SUPPLY OF DRINKING WATER.

 WARNING

1. This product is fueled by propane gas. Propane gas is invisible, odorless and flammable. An odorant is normally added to help detect leaks and can be described as a "rotten egg" smell. The odorant can fade over time so leaking gas is not always detectable by smell alone.
2. Propane gas is heavier than air and leaking propane will sink to the lowest level possible. It can ignite by ignition sources including matches, lighters, sparks or open flames of any kind many feet away from the original leak. Use only propane gas set up for vapor withdrawal.
3. Gas cylinders must be stored outdoors in a well ventilated area and out of the reach of children. Any indoor storage should comply with ANSI Z21.96-CSA 11.6-2014.
4. Disconnect propane before storing this appliance.

 WARNING

When using electrical products, basic precautions should always be practiced including the following:

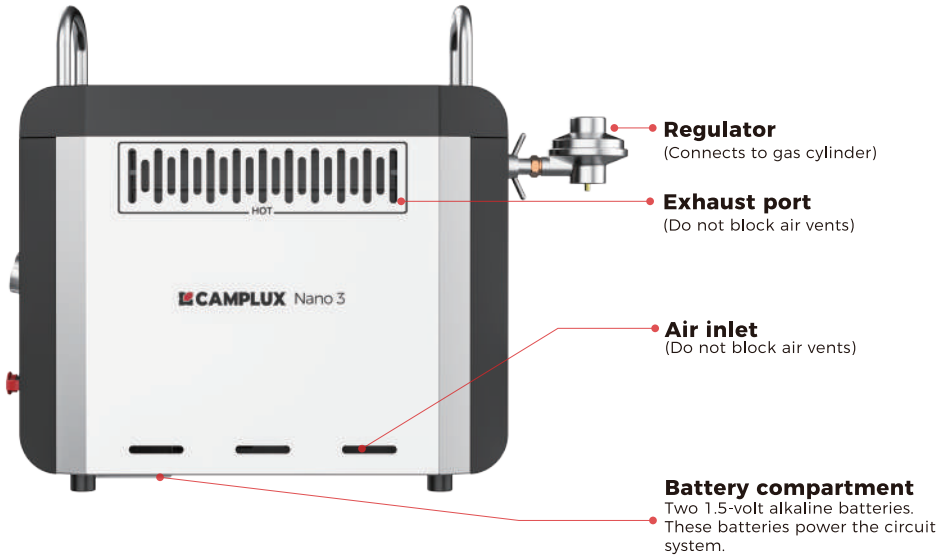
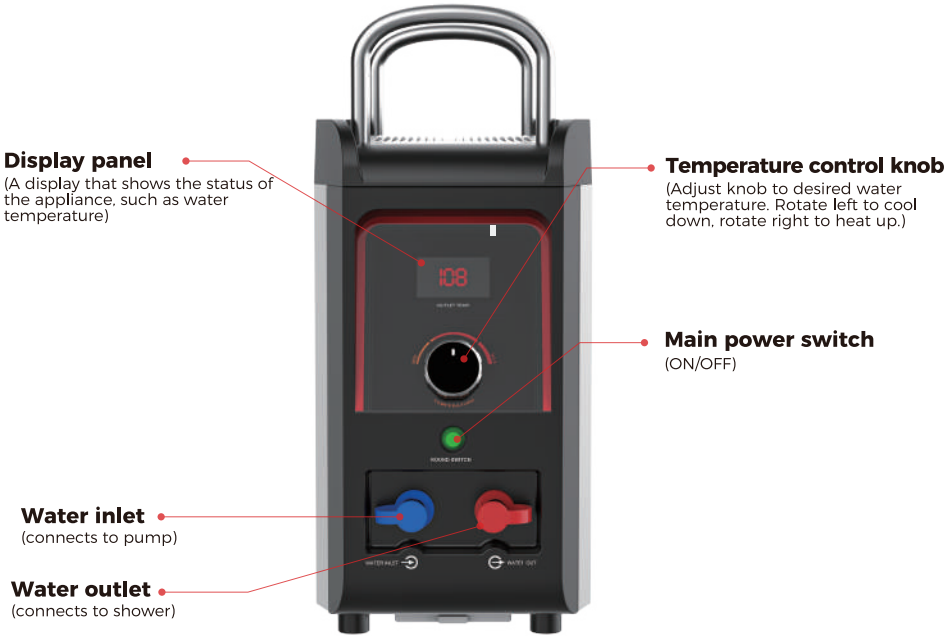
1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Read and follow all instructions that are on the product or provided with the product.
3. Do not install or use within 10 feet (3 m) of a pool.
4. Do not use the appliance inside the bathroom.

2. Specifications

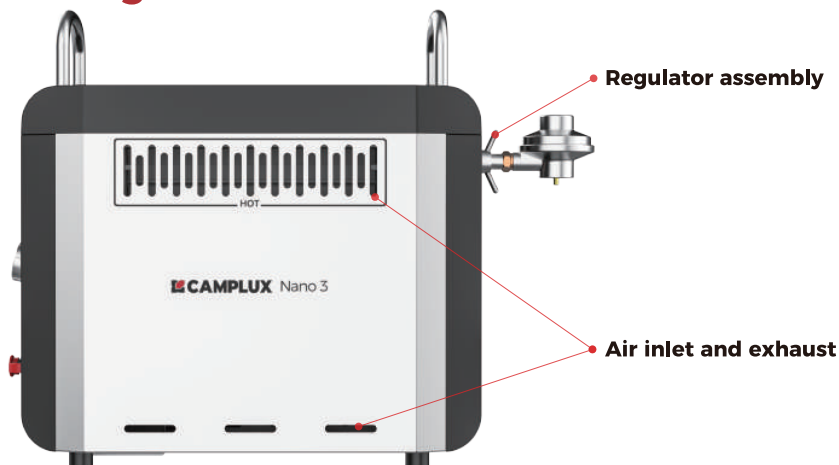


Nano 3	
Rating (BTU)	20,000BTU/Hr
Water Flow (GPM)	0.53-0.8GPM
Electrical Input	DC 3V
Fuel Source	Propane
Fuel Supply Pressure (to regulator)	Max Bottle Pressure
High Temperature Control	122°F
Dimensions (LxWxH)	15.7" X 6.7" X 14.6"
Weight (LBS)	13LBS
Materials	PA66+GF+UV

3. Product Overview



4. Operating Precautions



1. During operation, please ensure that all air inlet and exhaust (front, sides and bottom) are kept free from obstructions and closure.
 2. Attach the supplied regulator by rotating the t-wing nut in a "clockwise" direction carefully not to over tighten.
- Tips:** Press the gas cylinder tightly with one hand, and tighten the T-nut with one hand.

Checking for gas leaks

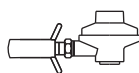
1. During set up, use soapy water to check all the connections and fittings that should be sealed for leaks. Never use a flame to check for gas leaks. Bubbles indicate a leak. If bubbles appear, you will need to tighten the connection before testing again. Check that the connection is not cross threaded and that it is tight. Perform another leak check.
2. If there is still a leak, please remove the cylinder and contact a professional for repair.
3. Do not turn this appliance on until all connections have been leak tested and do not leak.
4. Inspect this appliance regularly for signs of wear, leaks or incorrect operation. If symptoms such as flaring of the burners, issues with lighting, damages to connections or leaks from seals or gas controls are identified, do not attempt to repair these issues on your own, please contact a professional for repair.

5. Do not use this appliance if it has damaged or worn seals. Do not use this appliance if it is leaking, damaged or does not operate properly.

5. Product Accessories



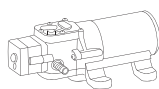
3 Modes Shower
Head & Hose



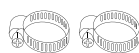
Gas Regulator



Shower Bracket



1.2GPM
Water Pump



Hose Clamp



Outlet Hose
with a Snap-on
Connector



Intake Hose



Cigarette Lighter
Cable

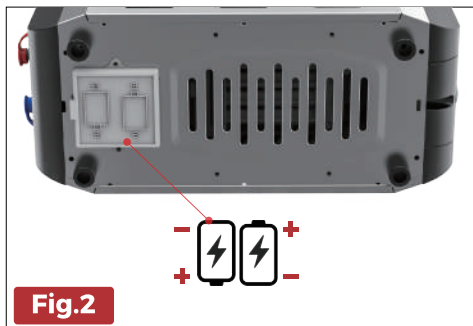


Alligator
Clip Cable

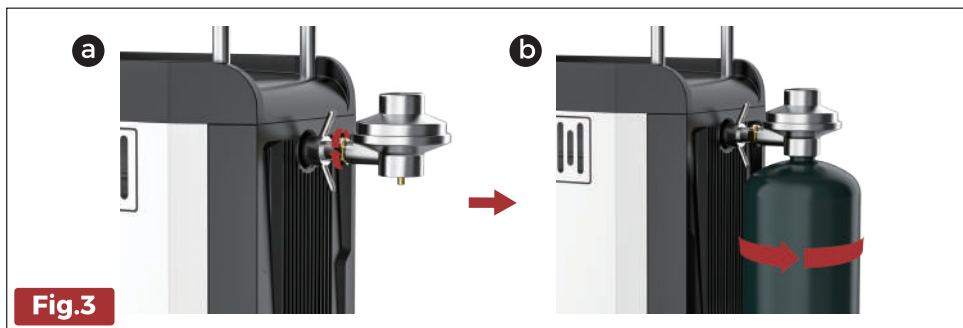
6. Installation & Usage



Place the appliance on a solid, non-combustible surface, and straighten all hoses to remove any kinks or twists.



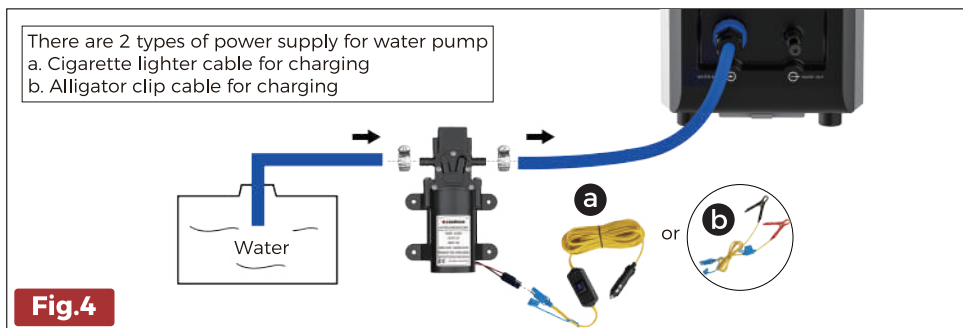
Install two D-cell batteries (not included) in the compartment at the bottom of the appliance, ensuring they are inserted with the correct polarity.



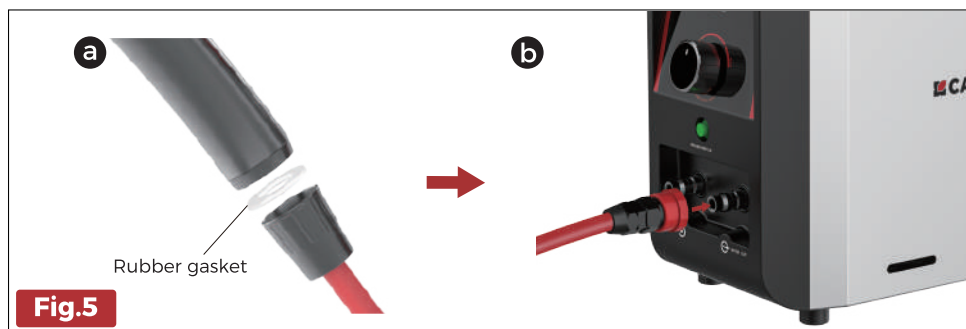
a. Screw the gas regulator clockwise onto the gas inlet on the rear of the appliance and tighten securely.

b. Screw the gas cylinder anti-clockwise onto the gas regulator and tighten securely.

Note: Before operating the appliance, check that the coupling nut is tight and perform a leak test (Page 09).



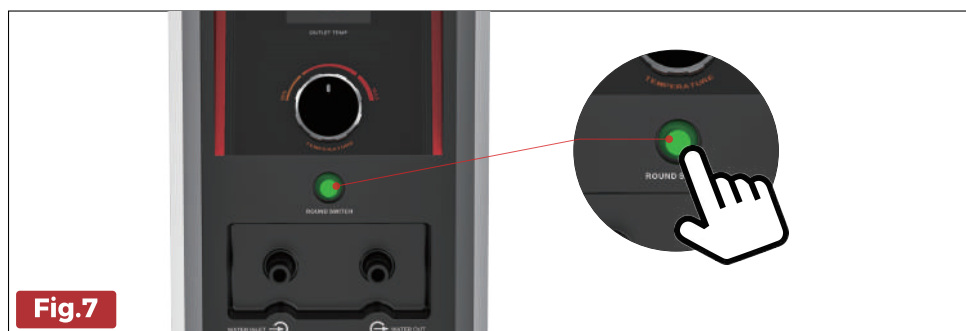
Install the water pump and connect it to the power supply as shown in Figure 4. Submerge the water inlet hose in a suitable water container. Do not use water directly from rivers, lakes, or the ocean. Do not use saltwater with this appliance.



- a.** Insert the supplied rubber gasket into the shower head connection.
Tighten the shower head and hose by hand only.
- b.** Connect the shower head assembly to the water outlet.



Install the shower bracket as shown in figure 6. Ensure it is securely mounted.



Press the main power switch to turn on the appliance.



- a. Press the shower head button to the "ON" position.
- b. The shower head features three spray modes for selection.



Adjust the water temperatur from the shower head by turning the temperature control knob.

Removing the propane tank

1. Check that the internal burner is fully extinguished, the appliance is entirely powered down, and all surfaces are cool to the touch.
2. Unscrew the gas regulator from the gas inlet at the rear of the appliance by turning it in a counter-clockwise direction.
3. Unscrew the regulator connection from the propane tank by turning it in a counter-clockwise direction.



After use, pour out the water inside the appliance. Do not store this appliance until the water has been poured out.



Use two silicone plugs to block the water inlet and outlet holes to prevent water from flowing out during transportation.

About the water inlet and outlet temperature

This appliance can raise water a maximum of 70°F (22°C) above its starting temperature (e.g. water starting at 82°F (28°C) can only be raised to a maximum of 122°F (50°C). If this does not raise the temperature to your desired level, water can be returned into the heater a second time to raise the temperature.

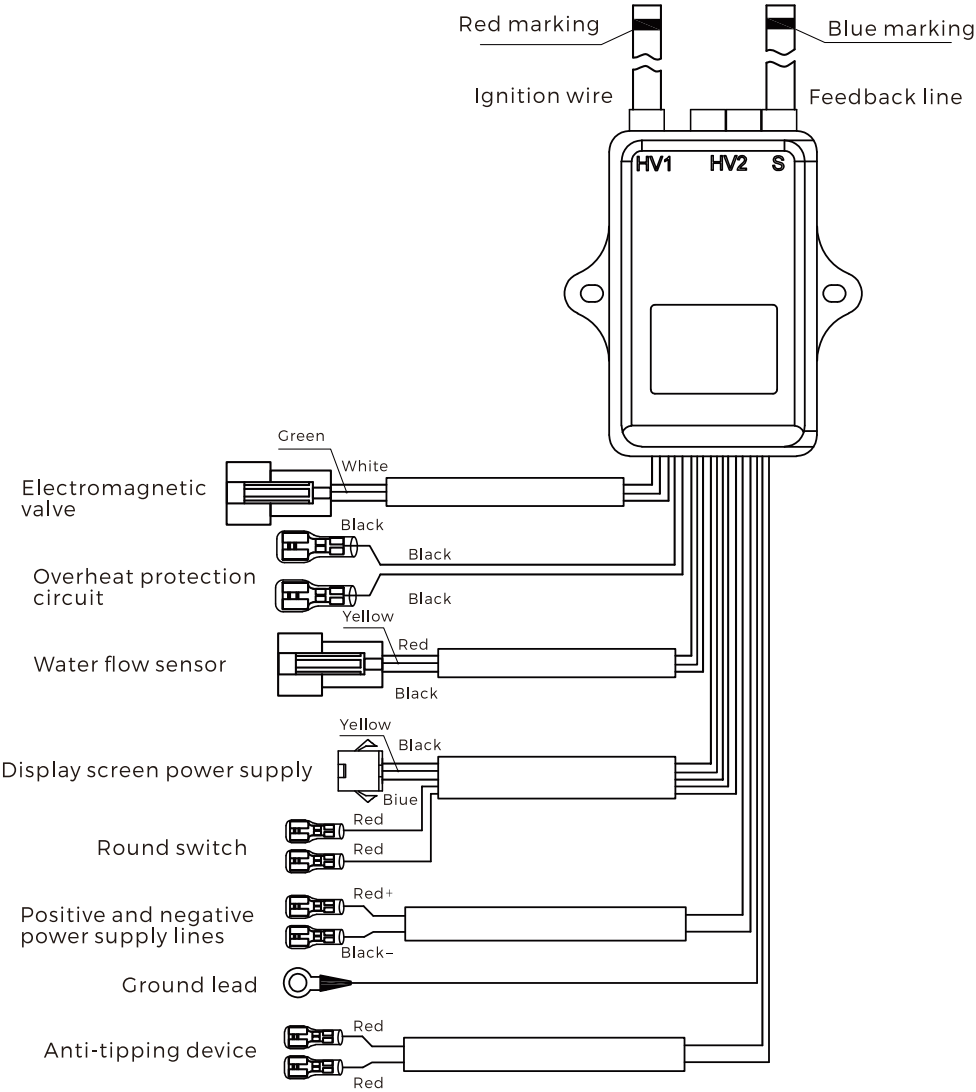
7. Troubleshooting Guide

Issue	Possible Cause	Solution
Appliance will not work - no audible clicks at start-up	• Water inlet and outlet connections reversed • Inadequate battery voltage or wrong direction • Wires inside disconnect during shipping • Blockage of vent pipe • Gas and water valve assembly malfunction • Ignition controller malfunction	• Water inlet and outlet connections installed correctly • Replace fresh batteries / align with correct polarity (+/-) • Take front panel off and reconnect the wires • Clean up vent pipe • Contact CAMPLUX for troubleshooting guide for gas and water valve assembly • Repair or replace ignition controller
Appliance will not work - audible clicks at start-up	• Incorrect gas type / gas cylinder • Too low water pressure • Blockage of gas regulator	• Check if 11lb propane cylinders is being used • Check for sufficient water flow and pressure (3.6-110 PSI) • Test the gas regulator for normal flow. If clogged, replace it with a new one
Appliance shut down shortly after starting	• Inadequate battery voltage • Ignition controller malfunction • High wind (above 10kPh) to blow flame down	• Replace new batteries • Replace ignition controller • Protect appliance from direct wind
Water is not hot enough	• Improper Temperature control knob dial position • Too high water pressure • Too low inlet water temperature • Inadequate supply of fuel gas • Altitude above 2,000 feet • Excessive carbon accumulation in the heat exchanger (flame is yellow)	• Rotate temperature control knob right to heat up • Reduce water supply • Cycle water between appliance and a source reservoir to your desired temperature • Replace a new 11lb propane cylinder • Recommend using below 2,000 feet (For every 1,000 feet in elevation, the efficiency of the appliance will decrease by 10%) • Clean up heat exchanger
Water is too hot	• Improper Temperature control knob dial position • Blockage of water route system • Too low water pressure • Too high gas pressure • Thermostat malfunction	• Rotate temperature control knob left to cool down • Clean up shower head • Boost water pressure by water pump • Replace a new 11lb propane cylinder • Replace thermostat

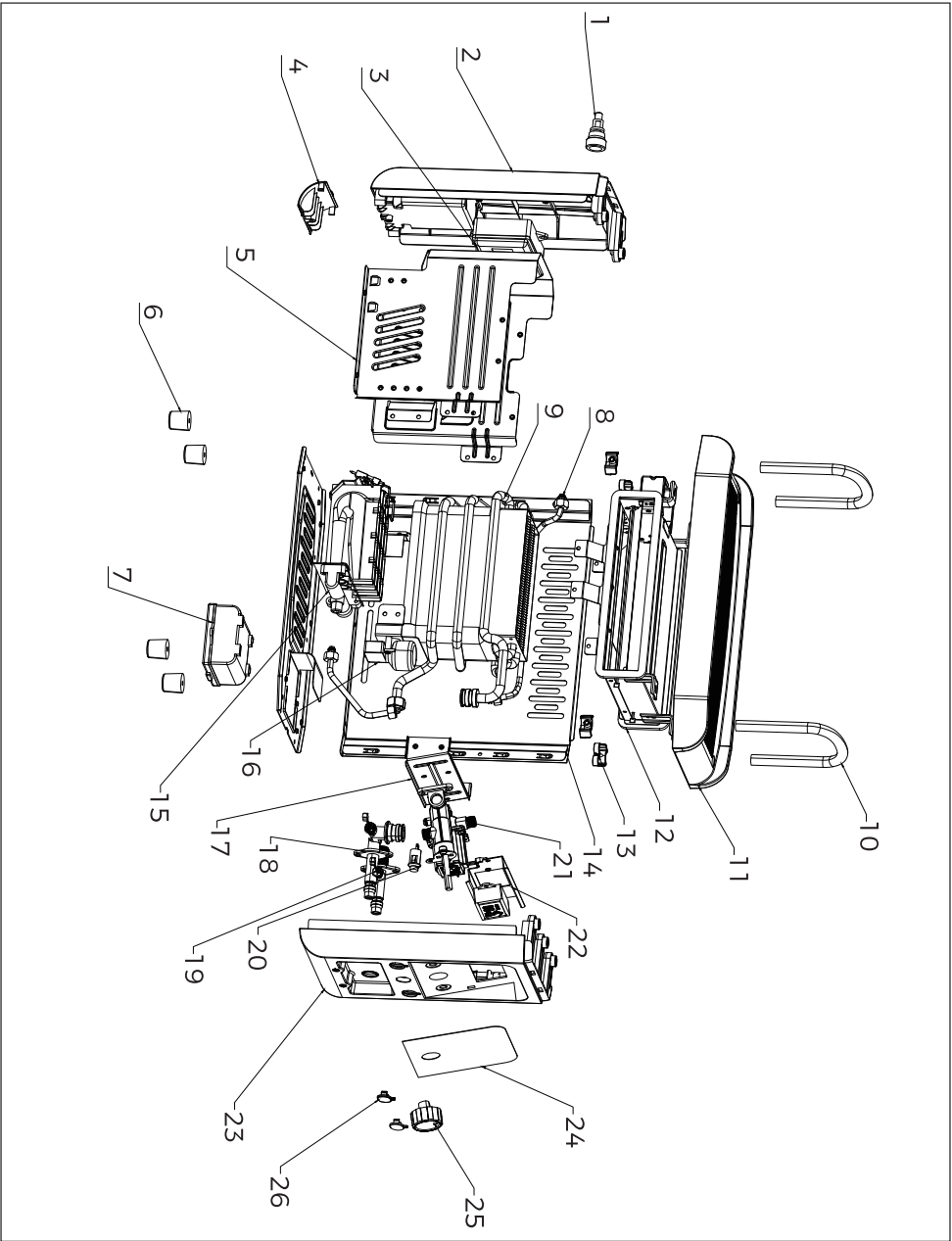
Water inlet/outlet pipe is leaking	• There is a gap in the water pipe connection • Gas and water valve assembly damaged	• Reconnect the water/shower hose • Contact CAMPLUX for troubleshooting guide for gas and water valve assembly
Shower hose/head is leaking	• The included rubber gasket is not connected • Too high water pressure • Too hot water	• Insert the supplied rubber gasket at shower hose connection • Reduce water supply • Do not always keep the switch in the "OFF" position when using
Appliance is leaking inside	• Loose or damaged seal within the valve assembly • Gas and water valve assembly damaged • Heat exchanger damaged by freezing	• Take apart the screws of the valve assembly and adjust/replace the seal • Contact CAMPLUX for troubleshooting guide for gas and water valve assembly • Repair or replace heat exchanger

Pump Issue	Possible Cause	Solution
Water pump isn't working at all	• Power supply disconnection or malfunction	• Check pump is properly connected to 12V power source
Water pump can not pump water	• 12V power source is not powerful enough • Air existing inside water pipe • Water hose connections are loose or hoses twist • Water pump over heating • Filter blockage by debris	• Ensure your 12V power source holds a sufficient charge • Fill the water inlet pipe with water first and always keep the water inlet pipe above the pump to ensure that no air enters the pump • Tighten all connections and ensure hoses free from kinks • Restart pump when it becomes cooler • Back-frush or disassemble and clean individual parts
Pump makes a noise	• The ground is not flat	• Ensure the pump feet placed steadily on the ground

8. System Overview



9. Parts Diagram





10. Parts List

Item	Description
1	Gas regulator quick connector
2	Rear shell
3	Main control module components
4	Battery compartment cover
5	Main support frame
6	Round plastic foot pads
7	Battery compartment
8	Gas inlet pipe assembly
9	Heat exchanger assembly
10	Round tube handle
11	Top shell
12	Petticoat pipe assembly
13	Handle tube fixing seat
14	Decorative side panel
15	Burner assembly
16	Dump switch
17	Gas valve fixing bracket
18	Water outlet pipe
19	Inlet pipe
20	Round switch
21	Single-shaft gas valve assembly
22	Display screen and stand
23	Front shell
24	Decorative surface sticker
25	Knob
26	DC terminal plug



11. Warranty

The warranty period for portable propane water heater is 1 years, calculated from the date of purchase.

Except the following situations:

- Contrived damage.
- Damage caused by force majeure such as earthquake, conflagration, etc.
- Damage from inappropriate use or violating this instruction.
- Damage or malfunction caused by disassembling.

🛡️ 12-month limited warranty

🔧 Lifetime technical support



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