



RV Tankless Water Heater Chauffe-eau sans réservoir de VR

Installation and Operation Manual Manuel d'installation et d'utilisation



⚠ WARNING

If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Evacuate all persons from the vehicle.
 - Shut off the gas supply at the gas container or source.
 - Do not touch an electrical switch, or use any phone or radio in the vehicles.
 - Do not start the vehicle's engine or electric generator.
 - Contact the nearest gas supplier or qualified service technician for repairs.
 - If you can not reach a gas supplier or qualified service technician, contact the nearest fire department.
 - Do not turn on the gas supply until the gas leak(s) has been repaired.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

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Please read these instructions carefully and follow all instructions, guidelines, and warnings included in this product manual in order to ensure that you install, use, and maintain the product properly at all times. These instructions MUST stay with this product. By using the product, you hereby confirm that you have read all instructions, guidelines, and warnings carefully and that you understand and agree to abide by the terms and conditions as set forth herein. You agree to use this product only for the intended purpose and application and in accordance with the instructions, guidelines, and warnings as set forth in this product manual as well as in accordance with all applicable laws and regulations. A failure to read and follow the instructions and warnings set forth herein may result in an injury to yourself and others, damage to your product, or damage to other property in the vicinity. This product manual, including the instructions, guidelines, warnings, and related documentation, may be subject to changes and updates. For up-to-date product information, please visit www.fogattiliving.com.

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1 Safety Information

1.1 Safety Definitions

This manual has safety information and instructions to help you eliminate or reduce the risk of accidents and injuries.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

Indicates a hazardous situation which, if not avoided, could result in property damage and minor or moderate injury.



NOTICE

This symbol indicates important information where there is no risk to people or property.

1.2 Safety Warnings and Operation Safety Guidelines



WARNING

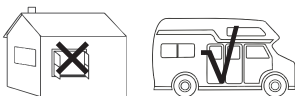
Please read the warnings and safety instructions carefully to avoid potential injury or death caused by failed applications.



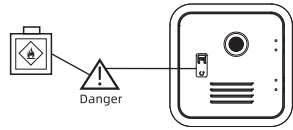
DANGER: SUFFOCATION OR FIRE HAZARD

- Exhaust gases are hot and contain carbon monoxide, do not breathe or obstruct the exhaust gases.
- Failure to follow the instruction will lead to serious injury, property damage or death.

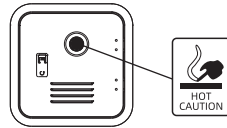
1. RV instant gas water heater is forbidden from indoor installation. Please only install into RVs supported by independent power source.



2. To prevent fire or explosion accidents, do not place flammable, volatile articles near the water heaters and flue exhaust pipe.



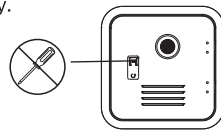
3. During operation and after use of the water heater, the temperature of the flue exhaust pipe and the surrounding parts is high. Please do not touch any of it with your hands to avoid scalding.



4. To prevent burning, test the water temperature by hand before showering or bathing.

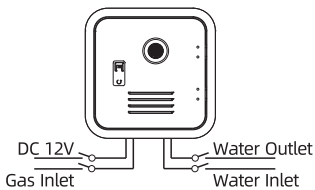


5. Do not modify the water heater anyway. Self-modification is dangerous and will void the warranty.



6. When the water heater is not in use for a long period, in order to prevent frost cracks on water pipes and leaking of the water heater, water within the water heater shall be drained, with water inlet valve, gas supply and power supply turned off. When the ambient temperature is lower than 32 °F (0 °C), you may either discharge the water in the water heater, or turn on the power supply and open the gas valve to start anti-freezing mode, in preparation for anti-freezing treatment. (For details, refer to the relevant section of the manual)

7. During use, please perform regular maintenance as instructed in this manual. Check the exhaust venting pipe and air intake port for blockage, accumulation of snow, ice, or dirt regularly. Ensure the water heater can take in clean air and smoothly discharge the exhaust gas produced by combustion.
8. Water heaters are used only for the supply of hot water and cannot be used for other purposes to prevent accidents.
9. Hot water from water heater is not available for direct drinking purposes.
10. Do not use the battery charger to power or test the water heater. The on-board power supply used by the vehicle-mounted gas water heater must comply with class 2 safety-isolation. Please use a qualified power supply to avoid damage to the water heater.
11. Do not alter the positive grounding system of the water heater.
12. Do not test the water heater with high voltage power unless the water heater power switch is turned off.



13. Do not use a water heater while the vehicle is in motion. While refueling the vehicle, do not use the water heater and turn off the water heater.
14. Pay attention to protect the surrounding buildings when the smoke is discharged.
15. Do not connect the water heater to the exhaust system of other appliances.
16. Ensure the bottom of the water heater is parallel to the horizontal surface while installing.
17. Park the vehicle on to flat ground while in use.

**WARNING**

- Stay away from water to prevent shock.
- NEVER use for indoor heating.
- NEVER use in mobile homes.
- NEVER use in food trucks or roadside food carts.
- NEVER use in construction trailers.
- NEVER heat pool water with this machine.

**WARNING****What should I do if I smell the gas?**

- Evacuate all personnel from vehicle.
- Shut off the gas supply at the gas container or source.
- Do not use any of the vehicle's electrical appliance or use any phone the vehicle. Do not start the vehicle's engine or generator.
- Contact the nearest authorized service provider or gas supplier for repairs.
- If you cannot contact an authorized service provider or gas supplier, contact the nearest fire department.
- Do not turn on the gas supply until the gas leaks has been repaired.

**WARNING**

This product can expose you to lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65warnings.ca.gov.

2 General Information

2.1 Function Introduction and Explanation

The water heater is designed with an intelligent control system. Simply set the temperature and press the start button for machine detecting the qualified water flow. After ignition, the gas valve invites propane to ignite the burner, then runs steady hot water. The intelligent device detects the entire process, where may shut down gas whenever abnormal failures are detected. The water heater is forced exhaust structured. The outside air passing through the air intake grille enters the combustion chamber via anti-dust net. Flue gas or air mixture is discharged outdoors through the small-diameter pipe automatically and safely.

1. Digital constant temperature system:

Microcomputer control system, which constitutes the "computer" of the whole machine, which controls the water, electricity of the water heater in a coordinated manner, and does not cause the temperature of the water temperature to fluctuate, satisfying the user's comfort.

2. Low startup water pressure: Low startup water pressure making it easier to use.

3. Flameout protection: When water heater accidently flames out during operation, the gas supply will be automatically cut off to ensure no leakage.

4. Speed changing and wind resistance function: When a blockage of the flue or the smoke is blocked, the built-in microcomputer system will increase the operating speed of the fan and eliminate the generation of harmful gases. When the speed reaches the predetermined maximum speed, the microcomputer system will issue the cease-gas and cease-fire instruction, effectively guaranteeing safety.

5. Water and gas linkage control: When the water supply is interrupted or the water outlet valve is closed, the water heater will automatically stop the combustion and shut down.

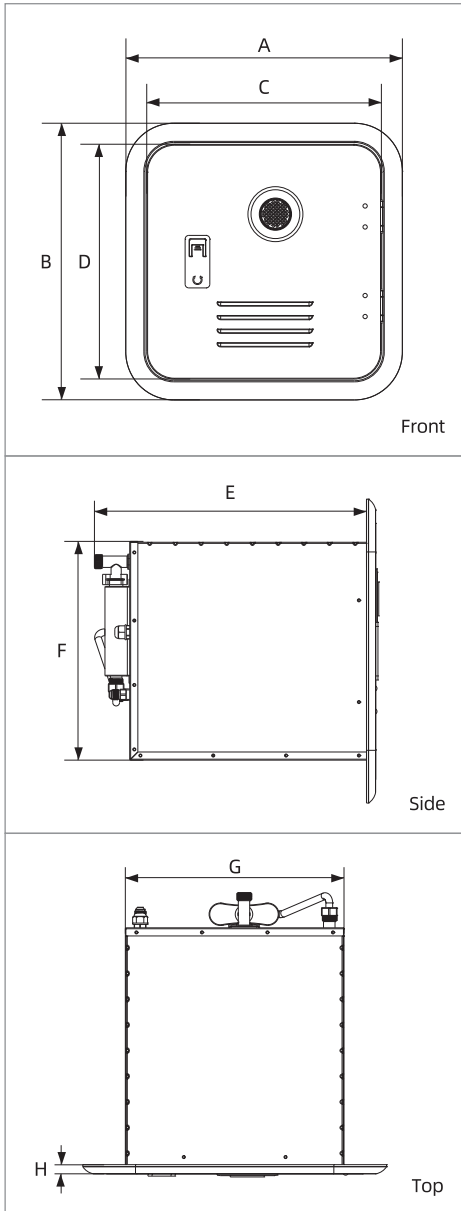
6. Outlet water temperature display: Enables outlet water temperature display function.

7. Antifreeze function: When water pipe temperature is lower than $43\text{ }^{\circ}\text{F} \pm 2\text{ }^{\circ}\text{F}$ ($6 \pm 1\text{ }^{\circ}\text{C}$) and wire controller displays "Fd" character, the machine starts ignition and runs a certain load of water from 2 to 5 seconds, until water temperature reaches $90\text{ }^{\circ}\text{F} \pm 2\text{ }^{\circ}\text{F}$ ($32 \pm 1\text{ }^{\circ}\text{C}$). Around 3 minutes, the machine starts self-testing again. When the temperature is lower to $43\text{ }^{\circ}\text{F} \pm 2\text{ }^{\circ}\text{F}$ ($6 \pm 1\text{ }^{\circ}\text{C}$) again or antifreeze thermostat control stops working, the water heater starts again with the same cycle.

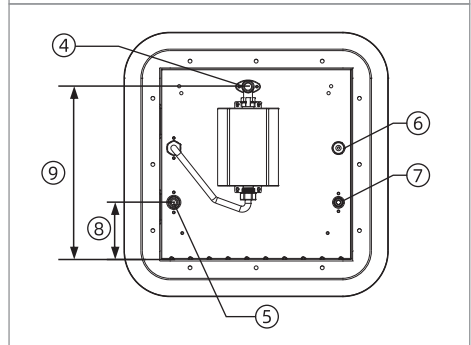
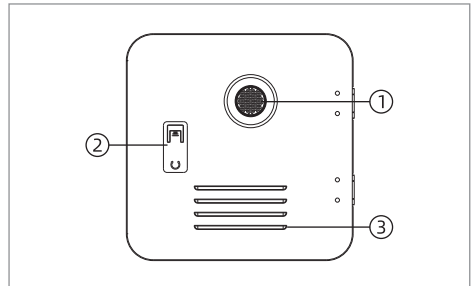
- In the process of starting the antifreeze function, if a fault occurs, the corresponding fault is reported, and the corresponding code is displayed. After 15 minutes, the system automatically clears the fault code. If the antifreeze start condition is fulfilled, the antifreeze will automatically start again, and the cycle continues.

8. Error auto-diagnosis and error code display function: Intelligent microcomputer can monitor various safety devices, gas proportional valves and other components in real-time, find faults and timely safety shutdown. The advanced fault code display function makes it easy to use and maintain.

2.2 Appearance and Specifications



Dimension	Inches (mm)
A	17.64" (448 mm)
B	17.64" (448 mm)
C	15.0" (380 mm)
D	15.0" (380 mm)
E	15.8" (401.3mm)
F	12.7" (322.5 mm)
G	12.7" (322.5 mm)
H	0.54" (13.7 mm)



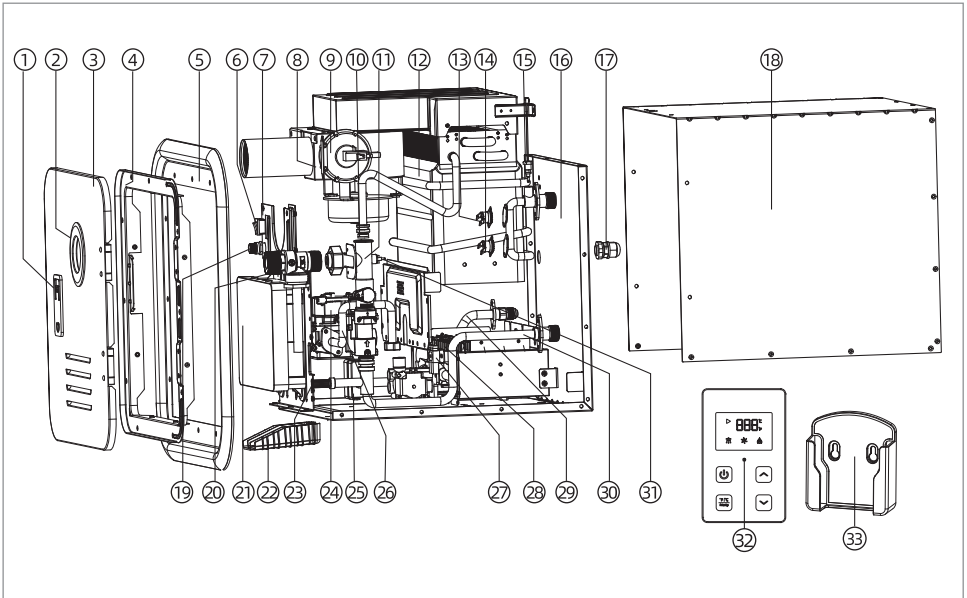
- ① Decorative ring
- ② Flat lock
- ③ Inlet grill
- ④ Water Outlet 1/2" NPT
- ⑤ Water Inlet 1/2" NPT
- ⑥ DC 12V
- ⑦ Gas Inlet 5/8" UNF
- ⑧ 3.8" (96.5 mm)
- ⑨ 11.52" (292.5 mm)

2.3 Model and Specification

Product name		RV Tankless Water Heater
Series		InstaShower 8 Pro
Model		FS08B1S
Control instruction		Manually set the water temperature, can be set between 95 °F (35 °C) and 123 °F (51 °C)
Max./Nominal Heat Input (Btu/hr)		55,000
Minimum Heat Input (Btu/hr)		8,500
Orifice Drill Size		0.91 mm for LPG
Max. Inlet Gas Pressure		13" w.c. (3.23 kpa)
Min. Inlet Gas Pressure		8" w.c. (1.99 kpa)
Max. Manifold Pressure		5.46" w.c. (1.36 kpa)
Min. Manifold Pressure		0.56" w.c. (0.14 kpa)
Total Input Current		< 10 A
Rated Gas Inlet Pressure		LPG 11" w.c. (2.74 kpa)
Ignition method		Automatic ignition
Applicable water pressure		14.5 - 150 PSI
Connector Specification	Gas inlet	5/8" UNF
	Cold water inlet	1/2" NPT
	Hot water outlet	1/2" NPT
Electric supply		DC 12V
Rated power		46 W
Dimensions (Cosing, H × W × D)		17.64" x 17.64" x 16.34" (448 mm x 448 mm x 415 mm)
Max. Temperature		123 °F (51 °C)

We reserve the right to amend the product without prior notice.

2.4 Main Parts



- | | |
|----------------------------------|--|
| ① Flat Lock | ⑱ Upper Enclosure |
| ② Decorative Ring | ⑲ Fuse Box (125V 10A) |
| ③ Front Panel | ⑳ Pressure Relief Valve |
| ④ Blind Flange | ㉑ Controller |
| ⑤ Decorative Frame | ㉒ Drain Pan |
| ⑥ ON/OFF Switch | ㉓ Drainage Screw |
| ⑦ Fixing Plate | ㉔ Gas Proportional Valve |
| ⑧ Fan Volute Assembly | ㉕ Valve Frame |
| ⑨ Wind Pressure Switch | ㉖ Connecting Pipe For Burner And Valve |
| ⑩ Flow Regulatur | ㉗ Ignition Pin Assembly |
| ⑪ Water Flow Sensor | ㉘ Burner |
| ⑫ Heat Exchanger | ㉙ Gas Inlet Assembly |
| ⑬ Anti-Freezing Thermostat | ㉚ Water Inlet Assembly |
| ⑭ Thermostat | ㉛ Water Inlet Temperature Probe |
| ⑮ Water Outlet Temperature Probe | ㉜ Wired Controller |
| ⑯ Lower Enclosure | ㉝ Wired Controller Base |
| ⑰ Ply-Yarn Drill | |

3 Installation



WARNING

- This product is not suitable for DIY installation.
- Installation and maintenance must be carried out by a qualified person, service company or gas water heater suppliers, otherwise our company will not be responsible for any accidents caused by improper installation or maintenance.
- Improper installation, commissioning, modification or maintenance may lead to property damage, personnel injury or death.

3.1 Installation Instructions



WARNING

- Observe all installation material in accordance with governing codes and ordinances.
- Failure to follow instructions will result in serious injury, property damage, or death.

The installation must conform to one or more of the followings, as applicable.

1. Local codes or, in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54, and/or CSA B149.1, Natural Gas and Propane Installation Code;
2. Local codes or, in the absence of local codes, Recreational Vehicles, NFPA 1192, and/or CAN/CSA-Z240 RV Series;
3. Local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, and/or the CSA C22.1, Canadian Electrical Code, Part 1.

The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).

Provisions for adequate combustion and ventilation air in accordance with one of the followings:

1. The national Fuel Gas Code, ANSI Z223.1/NFPA 54;
2. CSA B149.1, Natural Gas and Propane Installation Code;
3. Applicable provisions of the local building code.



WARNING

Please keep any parts removed from this model inaccessible to children to avoid injury.



WARNING

Sharp edges can cause cuts and injury!
Always wear protective gloves to avoid injuries from sharp edges during installation work and while handling the appliance.



The following instructions are applicable to the RV gas water heater. If you have any queries about a particular installation or application, please consult our company or authorized partners for installation and maintenance issues.

- The water heater must be properly installed to ensure the air flow is free of obstruction at any time when the air inlet louvers and exhaust pipes are in place.
- During any stress test of the system, the device should be disconnected from the air supply piping system.
- Do not install this product under a hanging structure. It should be installed in a firm position.
- This product should be installed in any place where the door will not covered or blocked flue gas exhaust pipe. If this condition is not allowed, please ensure a minimum of 6 inches gap between the water heater vent and the door when the door is opened.
- The water heater can be installed in the trailer or under the retractable awning, but the awning must be well ventilated.
- The water heater must be installed upright, otherwise it will affect the normal operation of the water heater.

- When the water heater is installed, it should be reliably grounded.
- Clean the dirt in the pipe before the inlet pipe connecting to the outlet pipe.
- A suitable assembled filter should be installed at the back of the water pump for filtration, without which our company will not claim any warranty.
- Check for gas and water leakage after installation, make sure the machine is safe to operate.
- The minimum distance from the smoke outlet to the flammable surface should be > 20 inches (500 mm).
- The normal operation gas pressure range of the water heater is maximum inlet pressure cannot exceed 13" w.c. (3.3 kPa) and the minimum pressure cannot be lower than 8" w.c. (1.99 kPa). The water heater will not operate normally when out of range.

3.2 RV Water Heater Installation Check List

- After receiving the RV tankless water heater, please check whether your gas supply is as required by the RV water heater, which is stated in the specifications.
- After opening the product box, please check whether any damages in the water heater body, and screw threads.
- Open the RV Water Heater's front door, and take out the Digital Controller which is put inside the chamber of the water heater, next to the exhaust vent.
- Check whether the exhaust vent is clogged or blocked, clean up if anything.
- Check whether the gas pressure meets the requirements stated in the specifications. Check whether the water pressure meets the requirements stated in the specifications.
- Check whether the power supply is 12V DC (Direct Current).
- Connect your 12V DC Power Supply to the white and black cables in the back per instruction: Black cable is positive, white cable is negative. Also connect the Digital Controller to the two Blue cables in the back, it's unnecessary to differentiate the positive and negative cables for the Digital Controller.
- Connect your cold water pipe to the water inlet, hot water pipe to the water outlet, and gas supply to the gas inlet per the labels on the back of the water heater.
- Check whether the gas pipe fittings are fully sealed, make sure there are no gas leaks. Check whether Washers/Teflon Tapes are correctly used in the water pipe fittings, and make sure there are no water leaks.
- Make sure to use the original Digital Controller that match with the water heater. Otherwise EC errors will occur.
- For the first time using the water heater, it is normal that it may take 2~3 times to turning the water heater on and off before igniting successfully, as the air residing in the gas pipes needs to be evacuated so that the gas pipes can then be filled with propane gas.

3.3 Prepare for installation

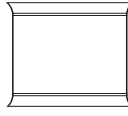
■ Parts included



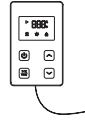
Tankless Water Heater



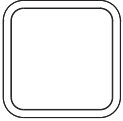
User Manual



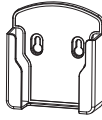
Assembly Kit



Wired Controller



Decorative Frame



Wired Controller Base

■ Tools and Materials needed (Not included)



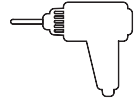
Screw Driver



Wrench



Scissor



Hammer Drill with Concrete Bits



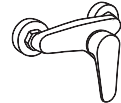
Pliers



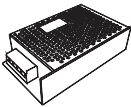
Steel tape



Gas pressure Regulator



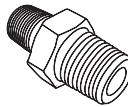
Thermostatic Mixing Valve



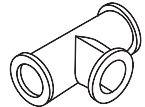
12V DC Power



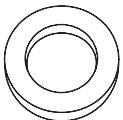
Soapy Water



Pipe Fittings



Threaded Tee Fitting
(Middle 3/4" both ends 1/2")



Washers



Electrical Adhesive Tape

3.4 Installation Position

Choose a location to place the appliance, based on the following criteria:

- DO NOT install in the front facing portion of the RV to minimize damaging contamination from road grime, debris and wet roads when traveling.
- DO NOT install the appliance in an outdoor enclosed area.
- DO NOT install the appliance in any location where the exhaust vent may be covered or obstructed when a swing door, bag door, slide out, pop up, etc. is partially or fully extended.
- DO NOT install this appliance on any door or slide out area.
- DO NOT install the appliance where the access door is less than
 - 9" (229 mm) from any opening into the vehicle
 - 36" (914 mm) from any motor driven air intake
 - 36" (914 mm) from any gas tank connection or ventilation.
- Choose a convenient location where supply water, LP gas, and 12V DC is accessible to the back side of the appliance for installation and servicing.
- The water heater is designed to be installed on a flat floor (made of Wood or Linoleum) or a fixed platform.
- It is recommended that the appliance be located in a central location to the hot water loads.
- Choose a location where clearances to combustible surfaces and the appliance are:
 - 1" to top surface.
 - 0" to all other surfaces.



NOTICE

To install on a carpeted area, a metal or wood panel that extends at least 3 inches beyond the width and depth of the water heater is required to install under the unit.

Dimension	Inches (mm)
A	13" (330 mm)
B	13" (330 mm)



NOTICE

The opening for the water heater should be right angle corners.

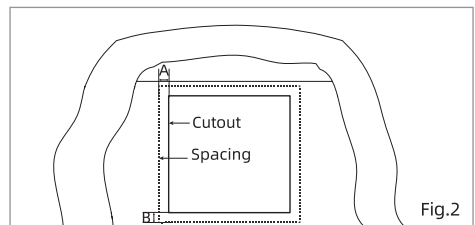
2. Make sure that the front edge of the opening is surrounded by a solid frame to firmly anchor the water heater. If needed, construct the opening by using 1.5" x 1.5" min. wood or aluminum framing.



NOTICE

- Fiberglass, filon, and corrugated aluminum (Mesa1") are all acceptable exterior wall siding solutions.
- The exterior wall opening must be the same dimensions with no radius corners.

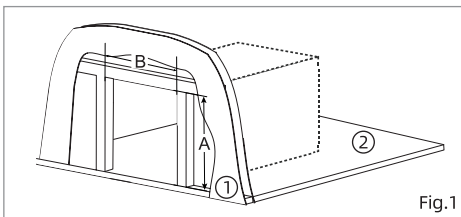
3. Refer to depth "C" for minimum rear clearances, for such items as cabinets, appliances and utility entry locations.
4. Refer to Fig.2 for adequate spacing from other items on the RV wall to the door assembly.



A	B
13" (330 mm)	13" (330 mm)

3.4.1 Prepare Cutout Opening

1. Create a cutout with the following dimensions A and B of Fig.1.



① RV Out-wall ② RV Flooring

5. Make sure the appliance is supported by a solid floor or platform with adequate weight-bearing capacity. (Fig.3)

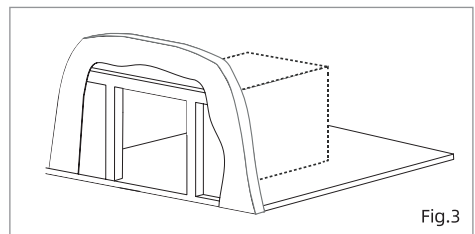


Fig.3

6. If necessary, create a platform to support the water heater. Fig.4 and Fig.5 are some common solutions. Ensure the platform is level front to back, and side to side after securing to the RV.

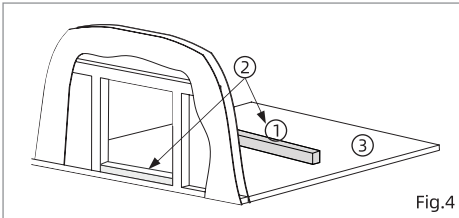


Fig.4

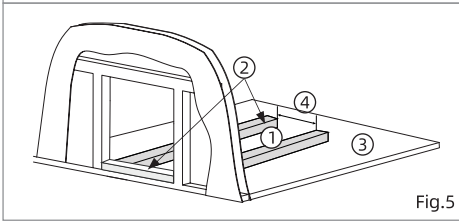


Fig.5

- ① Wooden Mat ③ Flooring
- ② Flush Platform ④ 6"~8" (152~203 mm)

3.5.1 Gas Plumbing

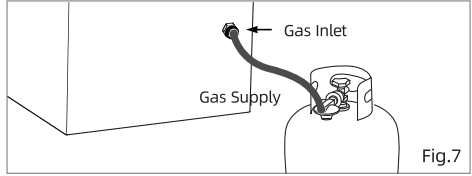


Fig.7



DANGER

Follow all applicable codes, regulations and instruction material when performing service work. Failure to follow instruction will result in product damage, serious injury or death.

- Fuel entering the appliance must be in gas phase, liquid phase must not be used and will result in damage to the product.
- The gas line must terminate with a 5/8" flared female compression fitting to connect with the rear gas connector of the appliance.
- A non-metallic flexible gas hose must be rated for 149 °F (65 °C). Anchor appropriately to prevent fatigue and failure from wear edges.
- Make sure that the operating pressure of the gas supply corresponds to the operating pressure of the appliance 11~14 in-wc (27.4~34.9 mbar).

3.4.2 Existing Cutout

1. Determine your existing cut-out. (Fig.6)

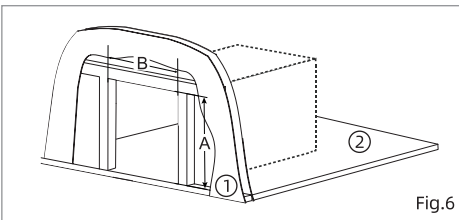


Fig.6

- ① RV Out-wall ② RV Flooring

Dimension	Inches (mm)
A	13" (330 mm)
B	13" (330 mm)

3.5 Prepare Utilities

Refer to 3.5.1 Gas Plumbing, 3.5.2 Electrical Wiring, 3.5.3 Water Plumbing for a connection diagram.

1. Locate entry point for the plumbing to service the rear of the appliance. Ensure entry point is not in the footprint space of the appliance. (Fig.1)
2. Feed gas line into proximity, leave enough length to flex into position so that when connected no kinks are created.



NOTICE

An approved semi-flexible metallic pipe is acceptable to connect as an extension from the gas line to the appliance.

3. Terminate gas line with fittings to connect to the appliance.

3.5.2 Electrical Wiring

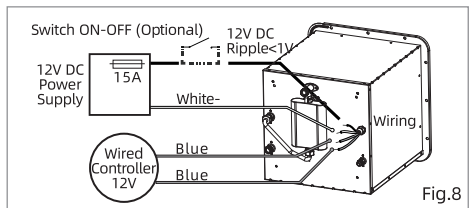


Fig.8

**WARNING: ELECTRICAL SHOCK HAZARD**

- Disconnect all power before performing any work.
- Always use a certified and proven 12V isolated power supply, that is properly grounded to the RV. Power errors can lead to controller damage.
- Follow all applicable codes, regulations and instruction materials when performing service work. Failure to follow instruction could result in serious injury or death.

3.6 Prepare Water Heater

1. Take the water heater out of its packaging by grasping the metal sides of the housing and lifting upward until fully removed from the box.
2. Remove protective caps for COLD, HOT water connector and GAS connector from back side. (Fig.9)

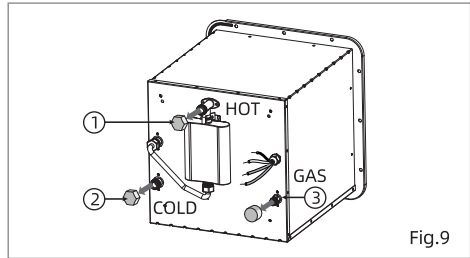


Fig.9

- ① Hot water connector ③ Gas connector
② Cold water connector

3. Attach the waterproof sealing strip (EPDM) provided with the accessory package, around the entire backside flange area and holes. (Fig.10)

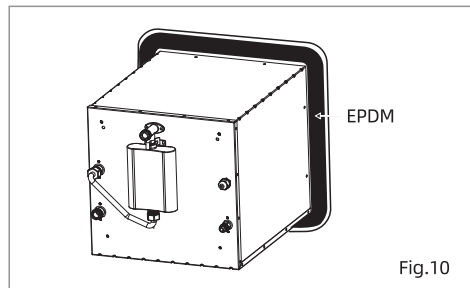


Fig.10

3.7 Prepare Water Heater Door

1. The door of the rv water heater is fixed to the mounting flange by a latch. You need to rotate the door lock to open the door.
2. Remove the access door from the box, separate the components.

- Wiring connected to or in proximity of the appliance must be rated for 140 °F (60 °C) minimum.
- Use only insulated terminals for all electrical connections.

- The appliance requires a power source that can adequately provide 10~17V DC to function properly.

1. Select a distribution branch greater than 3A, preferably 15 amp, to provide nominal 12V to the appliance from the distribution panel.

NOTE: The appliance has a built in 10A fuse, serviceable from the front of the product. The appliance can be on a dedicated or shared branch circuit with the same or higher rating.

Optional: A power switch can be placed in the living quarters for convenience, but not required as a switch is located externally on the appliance. If the switch is fused, make sure it is rated for at least 3amps. See Fig.8 for reference.

2. Locate entry point for the wiring to service the rear of the appliance. Ensure entry point is not in the footprint space of the appliance (Fig.1) Make sure any edges are protected to prevent wire abrasion from occurring.
3. Determine the appropriate wire gauge (AWG) for the 12V power supply length. Ensure enough wire is available to an make adequate connection.
 - 16AWG max. 40 feet (12 m)
 - 14AWG max. 66 feet (20 m)
4. Feed wire from power source to the entry point. Make connection to the power source.

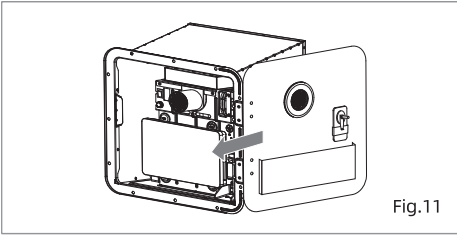


Fig.11

3.8 Water Heater Installation

1. Position the water heater and decorative frame carefully into the frame opening, evenly space the flange to the exterior wall of the RV. (Fig.12)

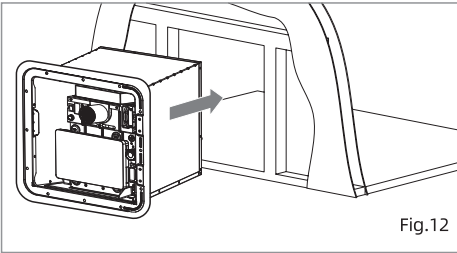


Fig.12



NOTICE

Ensure area beneath and behind the appliance is clean without debris and obstruction. Carefully slide the appliance across the floor to prevent linoleum damage.

2. The water heater flange cover is pasted with waterproof sealing strip EPDM. (Fig.10)

The flame retardant material shall be flat and connected seamlessly. Press this product into the opened hole. Secure the water heater to the car body with 12 screws (ST5×25 mm) Air and water should be isolated from the openings to prevent entry into the interior of the RV. (Fig.13)

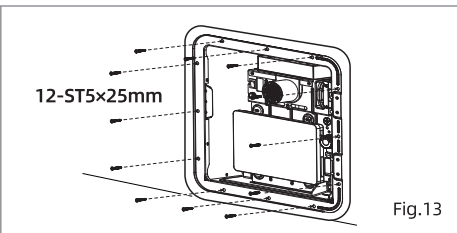


Fig.13



NOTICE

Ensure the butyl tape completes a tight seal between the RV siding and appliance flange. If gaps exist, remove the appliance and apply a double layer of butyl tape.

3. Apply a liberal amount of sealant around the door frame to fill any gaps to the RV wall. (Fig.14) Wipe any excess sealant.

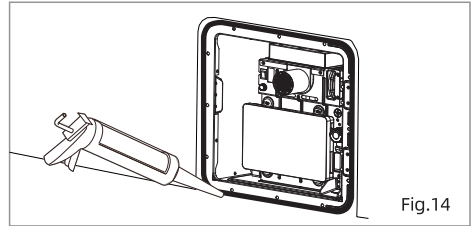


Fig.14

4. Install the water heater door (Fig.15)

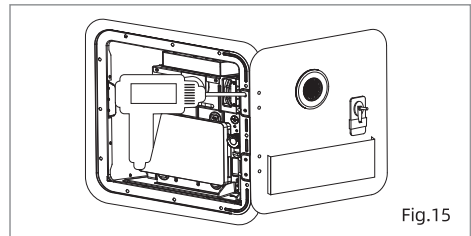


Fig.15

3.8.1 Gas Connection

1. Connect the gas service line to the 5/8" LP gas flared fitting on the back of the appliance. Use two wrenches to tighten the compression fitting. Avoid damaging the unit by over tightening.

Check whether the gas pipe fittings are fully sealed, make sure there are no gas leaks.

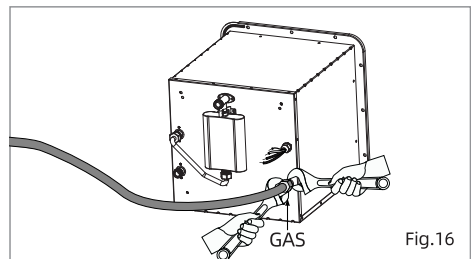
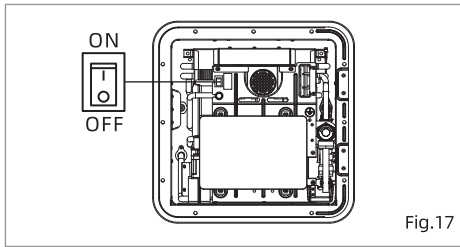


Fig.16

3.8.2 Electrical Connection

1. Set the power switch in front of the water heater to the "OFF" position.



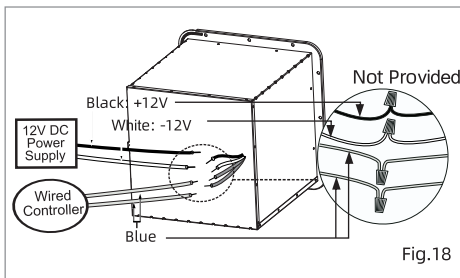
2. Connect the power supply wires (on rear of water heater- white and black wire) to the appropriate nominal 12V DC power source connection. (Fig.18)

* The black wire is positive (+) and the white wire is negative (-).



WARNING

The 12V DC power supply must be connected. If the power supply is not connected correctly, the water heater will not start and the controller will be damaged, which may result in serious injury or death.



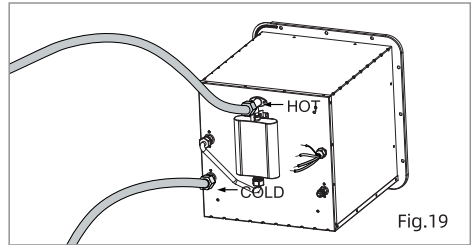
3. Connect the wall controller wires (2 blue wires on the appliance). (Fig.18)

* Polarity does not matter, the wires can be connected to either blue wires.

3.8.3 Water Connection

1. Connect both HOT and COLD water lines to the appropriate 1/2" NPT fittings.

Check whether Washers/Teflon Tapes are correctly used in the water pipe fittings, and make sure there are no water leaks.



NOTICE

- DO NOT over tighten connection fittings.
- For new installations, it is advisable to flush the water system of debris before connecting to the appliance.
- If the cold water and hot water are connected in reverse, the water heater will not start and cannot produce hot water, which may damage the equipment.

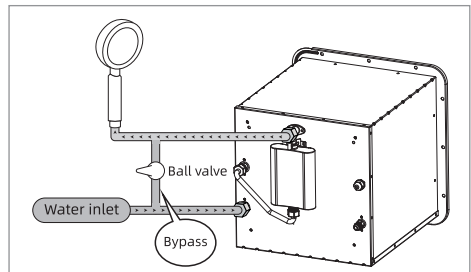
Bypass Tips

Possible problems in bypass waterway installation:

1. The product cannot be started;
2. The water temperature is not high enough to reach the set temperature.

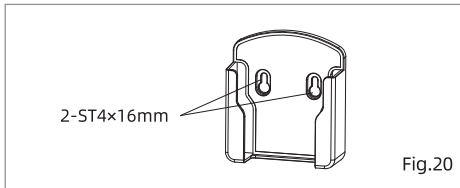
If there is a similar bypass water installation situation, you can choose the following solution:

1. Adjust the bypass water ball valve to reduce or close the water flow;
2. Remove the bypass waterway pipeline.

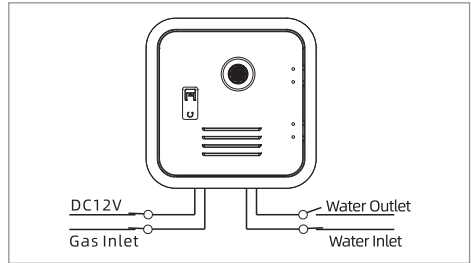


3.9 Wired Controller Installation

1. Choose a convenient location to place the wired controller base. The connection between the wire controller and the water heater should be reasonably arranged according to the specific environment. Fix the bottom controller holder with the two screws ST4x16 mm provided (Fig.20) and place the controller into the bracket.



3. Turn on the water inlet valve and gas valve;
4. Turn on the water outlet valve (hot water tap), once the water heater is initiated, hot water will flow out.



WARNING

Minors are not recommended to use the machine alone unless with adults accompany .

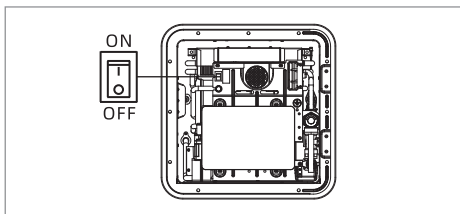
4 Operation


4.1 Operation Instructions

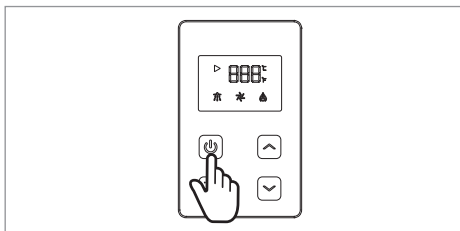
The user shall confirm whether the water heater is installed correctly before the initial use, carefully check that the connections are properly connected and leak free. After verifying, please follow the steps below:

To start the device



1. Confirm that the power switch to the water heater is turned on, turn the latch to close the door.



2. After confirming the power is on, press key "  " on the wire controller.

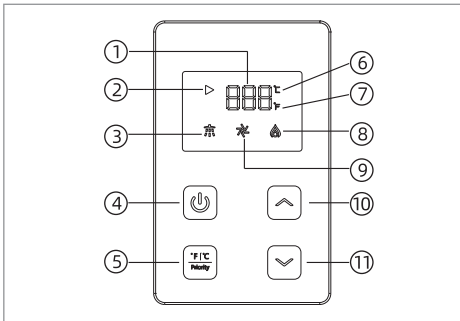


4.2 Wired Controller Instructions

1. The controller emits a buzzer sound "Beep" when the power is turned on. The display shows the gas source code, and this code will remain for 3 seconds before going off. The controller's indicator light is on and the back light of the power switch button is lighted.
2. After pressing the power button, the fan, shower, flame and water temperatures are displayed in real time according to the operating status.
3. Set the temperature to the temperature you required, the set temperature will flash for 5 times, then it will automatically switch to display the current water temperature.
4. Press "  " to switch between Celsius and Fahrenheit (degree).
5. In the event of a fault alarm, the display will show the error code.
6. The buzzer sound "Beep" occurs when the system is powered on or is operating effectively. When fault occurs in the system, the buzzer sound "Beep, Beep, Beep" is sounded continuously for 10 times, with an interval of one second between each sound.
7. After using the water heater, please press "  " to turn off the heater (water and gas supply should be turned off at the same time).

4.3 Steps to Setting Water Temperature

1. The setting range of the outlet water temperature of this machine is 95 °F - 123 °F (35 °C - 51 °C); Outlet water temperature is designed not to exceed 123 °F (51 °C).
 2. Each time you press the " ^ " key, the temperature will increase by 1 °C. See following Fahrenheit and Celsius comparison table for reference.
 3. Each time you press the " v " key, the temperature will reduce by 1 °C. See following Fahrenheit and Celsius comparison table for reference.
- Celsius Degree and Fahrenheit Degree Comparison
(Please refer to Table 1)



- ① Display setting temperature
Display fault code
Display water temperature
- ② Priority icon
- ③ Shower signal
- ④ Switch button
- ⑤ Fahrenheit/Celsius Priority
- ⑥ Celsius display
- ⑦ Fahrenheit display
- ⑧ Flame
- ⑨ Blower
- ⑩ Heat up button
- ⑪ Heat down button

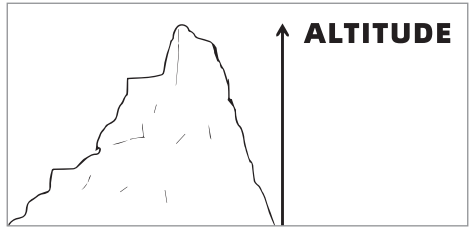
°F	°C
95	35
96	36
98	37
100	38
102	39
104	40
105	41
107	42
109	43
111	44
113	45
114	46
116	47
118	48
120	49
122	50
123	51

(Table 1)

4.4 High Altitude Use

For Canada: 0~4500 ft above sea level.
For US: 0~5000 ft above sea level.

If it exceeds 5000 ft, it shall comply with the requirements of Canadian installation regulations CSA B149.1 and American installation regulations ANSI Z223.1/NFPA54, and the input rate will decrease by 4% for every 1000ft increase in altitude.



5 Maintenance

For your comfort and safety, we recommend checking and maintaining the product monthly. Disconnect the power supply and allow the unit to cool down before performing maintenance. Do not disassemble gas passages and safety devices during maintenance. As the unit has some electronic components inside, do not open it to avoid contact with any type of liquid.

5.1 Routine Inspection

1. Check the air intake grille, exhaust vent for dust to avoid obstruction.
2. Check the unit for unusual appearance.
3. Check the unit for abnormal noise during operation.
4. Check for water and gas leakage.
5. Check whether the flame is burning normally every month. The flame should appear blue color through the observation window and the combustion is stable. No jitter, no lifted flame, no back draft, etc. If anything abnormal, please contact the service provider to repair it.
6. When carbon deposits are found, they should be promptly notified to the after-sales service provider for maintenance. The serviceman will remove the burner with the crater facing down, use a bristled brush to remove the carbon deposit, or replace the burner with a new one.



WARNING

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this and any other appliance.

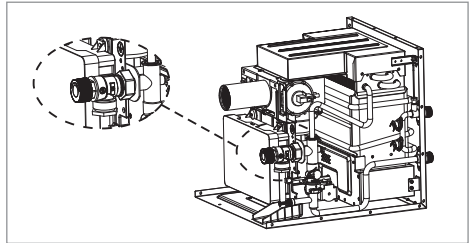
stable. No jitter, no lifted flame, no back draft, etc. If anything abnormal, please contact the service provider to repair it.

- When carbon deposits are found, they should be promptly notified to the after-sales service provider for maintenance. The serviceman will remove the burner with the crater facing down, use a bristled brush to remove the carbon deposit, or replace the burner with a new one.

5.2 Maintenance Instruction

- Clean the unit regularly. Do not use chemical lotion and volatile solvents to avoid discoloring of the outer shell.
 - Clean the air intake grille, dust filter and exhaust port regularly for better performance, without obstructing the flow of combustion and ventilation airflow open the panel, clean with water.
 - Turn off the water inlet, remove water inlet pipe, clean the filter, and reinstall.
 - Drain water from the RV regularly and flush the heat exchanger with an approved detergent. (Please refer to the RV vendor's instructions)
 - Wipe the display with a damp cloth. Do not use gasoline or grease detergents to avoid shape changes.
- Keep the appliance area clean and free from combustible materials, gasoline, and other flammable vapors and liquids.
 - Pay attention to the preset temperature. Skin burn may occur when preset temperature is too high.
 - Should overheating occur or the gas supply fails to shut off, turn off the manual gas control valve to the appliance.
 - Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Check for proper operation after servicing.

5.3 Pressure Relief Valve Notices and Maintenance



This water heater is provided with a pressure relief valve. For safe operation of the water heater, the relief valve(s) must not be removed from its designated point of installation or plugged.



WARNING

- Do not check the pressure relief valve when the water heater is in normal operation to avoid hot water burns!
- The pressure relief valve must conform to ANSI Z21.22 • CSA 4.4 and installation must follow local codes.



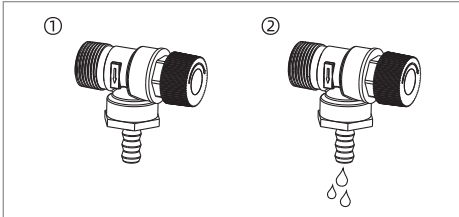
WARNING

No valve is to be placed between the relief valve and water heater. The discharge from pressure relief valves shall be conducted to a suitable place and that no reducing coupling or other restrictive instruments to be installed in the discharge line. In addition, the discharge line installed is to allow complete drainage of both the valve and line.

Model	Recommended pressure relief value / temperature
FS08B1S	150 PSI / 210 °F

- Dirt will directly affect the normal functioning of the safety valve. It requires hot water system maintenance of anti-foiling and anti-scaling cleaning.
- The user must check the relief valve at least annually. During checking, turn off the water heater's power and gas supply. Turn on the water inlet switch to create pressure in the water system. Then gently open relief valve handle until there is water flowing out and then gently close it. If no

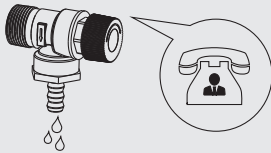
water flowing out, the valve is invalid. Immediately turn off the water heater switch and ask the service personnel to deal with it. Before operating the handle, check the discharge line connecting the valve to ensure that the water draining from the valve can be discharge to a suitable place.

**WARNING**

Do not operate the relief valve when the water heater is in normal operation to avoid being scalded by hot water.

**WARNING**

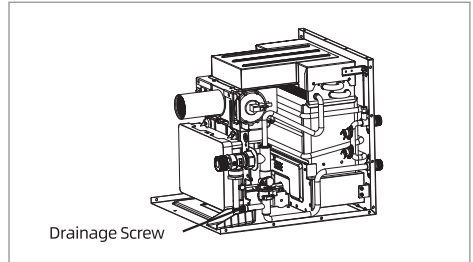
If a relief valve discharges periodically, this may be due to thermal expansion in a closed water supply system. Contact the water supplier or local plumbing inspector to rectify the issue. Do not plug the relief valve.



5.4 Drainage and Storage Instruction

If the RV is to be stored during winter, water must be drained from the gas water. To prevent freezing damage to water heaters, please follow the steps below:

1. Close the cold water inlet valve of the water heater. Open the hot water faucet or shower connected to the hot water outlet to connect the water pipeline of the water heater to the atmosphere;
2. Remove the drain screw as shown in the figure, and the water in the water heater will drain; (see the figure below)
3. After the water in the water heater is drained, install the drain screw.



5.5 Antifreeze System

Water heaters must be protected before travel to a potential freezing environment. Frost damage is not covered by the warranty. The anti-freezing function operation method is:

1. Draining water from the water heater. Applicable when the unit is not in use for long period. (For specific operations, see "Drainage and Storage Instructions")
2. Add antifreeze recommended by the RV manufacturer.
3. Start the antifreeze function to prevent freezing. Turn on the power switch and the gas valve, turn off the water inlet. The water heater will be on antifreeze mode automatically (please ensure enough gas in the RV).
 - When the water temperature in the water heater is lower than $43\text{ }^{\circ}\text{F} \pm 2\text{ }^{\circ}\text{F}$ ($6 \pm 1\text{ }^{\circ}\text{C}$), the remote controller displays "FD", the machine starts the ignition and runs with a certain load. After the whole machine operates for 5 seconds or when the temperature of the water pipe reaches $90\text{ }^{\circ}\text{F} \pm 2\text{ }^{\circ}\text{F}$ ($32 \pm 1\text{ }^{\circ}\text{C}$) in 2 seconds, the water heater will automatically shut off. After shutting down for 3 minutes, the water heater will check whether the temperature is lower than $43\text{ }^{\circ}\text{F} \pm 2\text{ }^{\circ}\text{F}$ ($6 \pm 1\text{ }^{\circ}\text{C}$) or when the antifreeze thermostat contact closes to run the heater and this cycle continues.
 - In the process of starting the antifreeze function, if a fault occurs, the corresponding fault is reported and the code is displayed. After 15 minutes, the system automatically clears the fault code. If the freeze protection start condition is still met, the antifreeze will start again.

■ Antifreeze Tips

- **Automatic heating and anti-freeze:** When the temperature is below 42.8 °F (6 °C), water heater will automatically activate the heating and anti-freeze function. Please make sure that the machine is connected electricity and gas to start this function.
- **Manual drainage to prevent freezing:** If the machine is not used for a long time, or if the ambient temperature is below 32 °F (0 °C) and the machine cannot be kept powered with electricity and gas, it is necessary to drain the water from the water heater to prevent damage due to freezing. And here is the process:
 1. Turn off the LPG (liquid propane gas) shut-off valve.
 2. Power off the RV tankless water heater and unplug the power supply to the machine.
 3. Turn off the water supply shut-off valve.
 4. Turn on hot water taps in the RV or camper, to release the water and pressure in the pipes.
 5. Screw out the drain screw (inside the machine) to drain the water; use a bucket to collect the residual water while draining.
 6. It may take more than 10 minutes to drain out the water. Please make sure that water is fully drained from the machine.
 7. Securely screw the drain screw back in place and turn off hot water taps and hot water outlet valve.
 8. Before you use the RV tankless water heater next time, plug it back in the 12V DC power supply, power on the machine, and then turn on the water supply shut-off valve, the hot water outlet valve, and the LPG (liquid propane gas) valve.











NOTICE

Please kindly note damages caused by freezing are NOT covered under the RV tankless water heater warranty as the industry standard. Please kindly make sure to take all the measures to protect your RV tankless water heater.

5.6 Setting Minimum Heat Load

■ Method#1

1. Plug in electricity, it will show "0-9" number program code.
2. Press " " for 3 seconds, it will show "PP".
3. Press " " to show FA;
Press " " to show specifications: set the value to be 00.
Press " " to exit.
4. Press " " to show PH; Press " " to show PL. Then turn on the gas and water. The water heater will run at minimum heat load.
5. After testing above, press " " to switch specifications like PL, dH, FH, FL..... till it shows "qu", then press " " to save and exit setting.

■ Method#2

Set the temperature on remote controller to be 95 °F (35 °C), if the water inlet temperature is high enough to make outlet water temperature higher than 95 °F (35 °C), it proves that the water heater is running at minimum heat load.

6 Troubleshooting

6.1 Fault Assessment and Troubleshooting

Fault handling: When the water heater fails, the display panel will show the error code, and the buzzer will sound the alarm "Beep, Beep, Beep" continuously for 10 times. Please follow the table below for the corresponding troubleshooting.

Error Code	Fault description and troubleshooting step
E0	The outlet temperature probe is open or shorted. Please check or change the outlet temperature probe connection.
E1	Ignition failure, no ignition or accidental flameout during operation. Please check whether the gas is supplied normally and continue using when it has been checked to be normal.
E2	Before ignition, a flame signal was detected, and the beeping alarm prompted a failure. Clear the fault after power failure is necessary.
E3	The thermostat malfunctions, and the temperature control is detected to fail during operation or start up of the water heater. Check the temperature controller connection or could have been due to over temperature of the water.
E4	The inlet temperature probe is faulty or the inlet temperature probe is open or shorted. Please check or change the outlet temperature probe connection.
E5	Fan failure, no fan signal detected during start-up or water heater operation.
E6	Over-heating failure. The display will show error code when the water temperature maintains above 176 °F (80 °C) for more than 3 seconds. Please check whether the water supply pressure is too low.
E7	Before normal combustion, the main valve opens or shorts;the proportional valve opens. During normal combustion, the main valve opens or shorts; the proportional valve opens.
E8	Wind pressure switch failure, when the power is turned on for 5 seconds, the wind pressure switch closes or the wind pressure is continuously disconnected for 2 seconds.
En	Water heater set timer timeout ("En" is set to open).

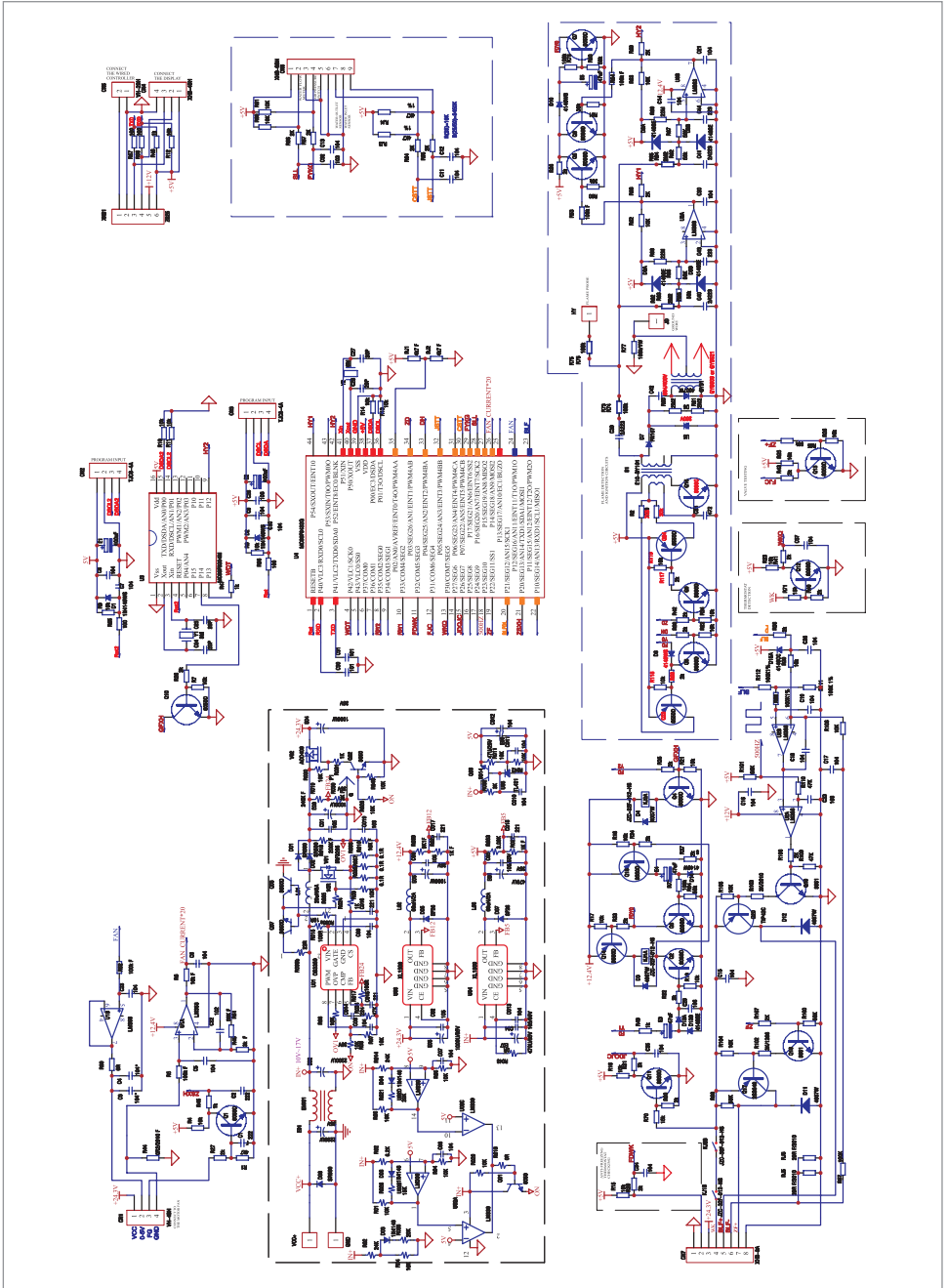
■ Fault alarm explanation and reset method

If the above code appears, please check whether water or gas is normal, press the on/off switch on the remote controller to power off or to restart the gas heater. (When the on/off button is pressed 5 times within 15 seconds, the machine will lock down automatically, even with no error code. You can either wait for 15 minutes or restart the machine by the switch or controller for immediate restart.) If after executing the above operations and it still cannot return to normal use, please inform the after-sales service personnel.

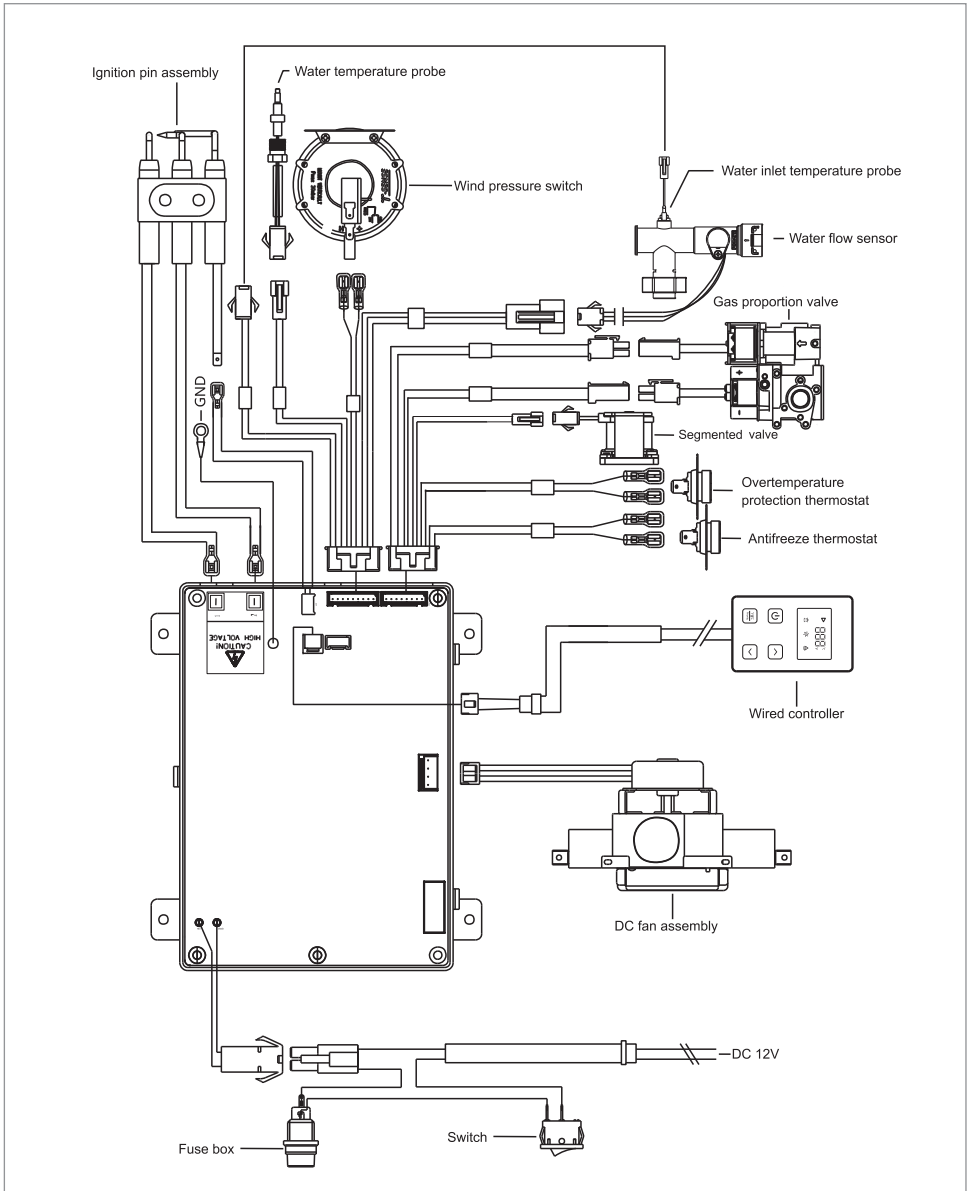
6.2 Non-defect When the Following Conditions Occur:

Phenomenon	Reason and handling method
White smoke at exhaust	When the outdoor temperature is too low, the exhausted smoke encounters outdoor cold air and condenses into a white mist.
Hot water flow is too slow or turn into cold water	If the hot water is too little to ignite the water heater, the water will become cold. A minimum water flow of 1 gallon per minute is required to ensure the stable operation of the water heater.
Failure to provide hot water during winter	The water temperature is too low, the water flow exceeds the heating capacity of the water heater. Please adjust the amount of water appropriately.
After 20 minutes or 40 minutes, the water heater suddenly goes out	To prevent oxygen deprivation, some models have 20 or 40-minute timing protection. Please turn off the tap and use it after a while.
After closing the hot water valve, the fan did not stop immediately	The function of delaying the shutdown of the fan is to completely discharge the exhaust gas of the water heater to ensure the safety of the user.
After opening, hot water does not come immediately	On the one hand, the time lag between the hot water valve and machine body may be the reason. On the other hand, the existed cold water within pipeline takes time to be showered out, the longer the pipeline, the longer time it takes.
After the machine is powered on, the remote controller does not respond	Open the door of the water heater door and make sure the switch inside the door is open and the fuse is intact. If the fuse blows, replace with fuse of the same size. (Fuse: 10A 125V)

7 Electrical Schematics





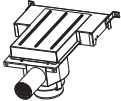
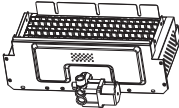
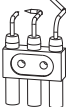
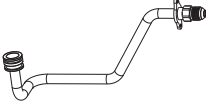
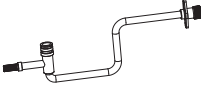
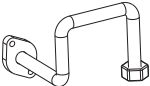

8 Product Wiring Diagram

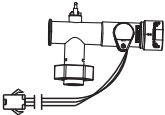


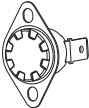







CAUTION

- Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- Verify proper operation after servicing.

9 Replacement Parts : Components

Parts	Photo
Lock	
Gas control valve	
Draught fan assembly	
Burner	
Ignition pin assembly	
Gas inlet	
assembly Water inlet	
The connection pipe of burner and valve	
Wired controller	

Parts	Photo
Water flow sensor	
Water Inlet temperature probe	
Water Outlet temperature probe	
Overtemperature protection thermostat	
Antifreeze thermostat	
Burner controller	
Water inlet filter	
FUSE (125V 10A)	
Wind pressure switch	

10 Packing List

Order	Design	Quantity	Remarks
1	Gas water heater	1 piece	
2	Installation and operation manual	1 piece	
3	Key points for successful installation	1 piece	
4	Controller	1 piece	
5	Screw	12 pieces	ST5 × 25
6	Screw	2 pieces	ST4 × 16
7	Insulation strip	1 piece	
8	Wired Controller Base	1 piece	

Warranty Policy

What is covered

The Fogatti Standard Limited Warranty covers any defects in materials or workmanship when the product is installed and operated according to Fogatti written installation instructions, subject to the terms within this Limited Warranty document. This Limited Warranty applies only to products that are installed correctly in the United States and Canada. Improper installation may void this Limited Warranty. Fogatti strongly recommends that this tankless water heater to be installed by a contractor who is licensed, state qualified, and trained on Fogatti's tankless products since improper installation may invalidate warranty coverage.

How long does coverage last

Item	Period of Coverage (from date of purchase)
	Residential Applications
All Other Parts and Components	24 months
*Shipping Costs	30 days

* Which excluding Alaska, Hawaii, and any location outside of the continental US and Canada

Limitation on warranties

During the Warranty Period, all repair parts must be genuine Fogatti parts; all repairs or replacements must be performed by a qualified professional who is professionally trained to do the type of repair. A component in the product fails because of a manufacturing defect, Fogatti will repair, replace, or refund the product to the owner at Fogatti's sole discretion and as determined to be appropriate by the Fogatti Support Team.

Fogatti does not authorize any person or company to assume for it any obligation or liability in connection with the replacement of the product. If Fogatti determines that repair of a product is not possible, Fogatti may replace the product with a comparable product at Fogatti's sole discretion. The warranty claim for product parts and labor may be denied if a component or product returned to Fogatti is found to be free of defects in material or workmanship; damaged by improper installation, use or operation; or damaged during return shipping.

No one is authorized to make any other warranties on behalf of Fogatti Corporation. Except as expressly provided herein, there are no other warranties, expressed or implied, including, but not limited to warranties of merchantability or fitness for a particular purpose, which extend beyond the description of the warranty herein. Any implied warranties of merchantability and fitness arising under state law are limited in duration to the period of coverage provided by this Limited Warranty, unless the period provided by state law is less. Some states do not allow limitations on how long an implied Limited Warranty lasts, so the above limitation may not apply to you. Fogatti shall not be liable for indirect, incidental, special, consequential, or other similar damages that may arise, including lost profits, damage to person or property, loss of use, inconvenience, or liability arising from improper installation, service, or use. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

How to obtain service

To make a warranty claim through this Limited Warranty, the owner must contact Fogatti's Customer Service team at us@fogatti.com, schedule a call or live chat on the Fogatti Whatsapp. It is within Fogatti's sole discretion when a repair, replacement, or refund will be issued. Any return for refund must be approved by Fogatti's Customer Service team prior to shipping the product back to Fogatti. Please refer to Returning Your Product for Repair or Refund Policy provided with the Product.

Within the first 30 days of purchase, Fogatti will cover all ground shipping costs for warranty related issues in the US and Canada, excluding Alaska, Hawaii, and any location outside of the continental US and Canada. After the first 30 days of purchase, the owner is responsible for all shipping to Fogatti, regardless of reason or circumstance. Fogatti will cover the warranty related shipping costs when returning the product to the owner after repair/inspection. The method for warranty related shipping will be ground equivalent with the provider within Fogatti's sole discretion.

What information you will need for processing of your warranty claim:

- Proof of purchase
- Serial numbers
- Photos of the installation
- Photos of the damage part (if there is one)

All shipments of any type of product coming to Fogatti for any reason must have a Return Goods Authorization ("RGA") number for any repairs to be made. Please contact Fogatti to obtain an RGA number prior to shipping anything to Fogatti. Failure to do so could result in loss of product. Fogatti will not be responsible for replacement due to loss or damage if these steps are not properly followed.

Any returns to Fogatti must be sent in the original packaging. If your returned product does not have the original packaging and/or is missing any of the components that came with the product, there will be a nonnegotiable 15% restock fee.

What Is not covered

The following exclusions apply to this Limited Warranty:

1. A repair, replacement, or refund will not be provided under this Limited Warranty unless the Product containing the defective component is properly installed and maintained according to Fogatti's Installation Manual and Use & Care Manual and in compliance with all applicable federal, state/province, and local laws, regulations, codes, policies, and licensing requirements. Any abuse, misuse, alteration, neglect, or misapplication of the product will void this Limited Warranty.
2. A repair, replacement, or refund will not be provided if the product is damaged by services performed by third party service providers other than Fogatti Systems.
3. Fogatti systems is not responsible for any expenses arising from labor services, including but not limited to, installation or removal services due to a warranty claim.
4. A repair, replacement, or refund will not be provided if the product is damaged because of improper installation, including sizing, length, elevation, condensation drainage, or inadequate airflow.
5. A repair, replacement, or refund will not be provided if the product is damaged because of improper use, including freezing within the unit or surrounding piping, incorrect sizing for the application, scale build up, or incorrect gas and/or water pressure.
6. This product shall not be used as a pool or spa heater. Use of the Product as a pool or spa heater shall be considered misuse and will void this Limited Warranty.

7. A repair, replacement, or refund will not be provided if the product is damaged by the use of non-potable, untreated or poorly treated well water, or water with high PH levels or hardness levels in excess of 12 grains per gallon (200 mg/L).

8. A repair, replacement, or refund will not be provided under this Limited Warranty if the original serial number on the product has been removed or altered in a way that causes the serial number to not be readily determined.

9. Fogatti will not pay electricity or fuel costs, or increases in electricity or fuel costs, for any reason whatsoever, including additional or unusual use of supplemental electrical heat.

10. Fogatti will not be responsible for any default or delay in performance under this Limited Warranty caused by any factor or contingency outside of its control.

This warranty does not cover the following items classified as normal maintenance

- Adjustment of gas pressure
- Cleaning or adjustment of flue
- Adjustment of pressure-temperature relief valve
- Cleaning, replacement, and adjustment of burner orifice

Gas water heater		Serial number
Product name		
Product model		
Purchasing date		

Warning! For your safety, please ensure that your installation conditions meet the following requirements:(applies only to water heater products)

- The power supply of the water heater must be reliably grounded and equipped with a leakage protection device to prevent accidental circuit leakage.
- Power outlet, connector may be spilled into the water. Use a splash-proof power outlet and take care of the watertight joints.
- Water heaters should be used on the RV. Do not use indoors. Exhaust gas is discharged outside the vehicle to prevent carbon monoxide poisoning.
- Gas pipelines, the waterway must be reliably installed without leakage. Prevent damage due to leakage.
- The installation of the water heater should comply with local laws and regulations.