

Installation Manual

Gen 1_{SERIES}



Gen 1 LPG
AHE-GNX-PX1



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WARNING

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 any electrical switch or use any phone or radio in the vehicle.
- Do not start the vehicle's engine or electric generator.
- Contact the nearest gas supplier or qualified service technician for repairs.
- If you cannot reach a gas supplier or qualified service technician, contact the nearest fire department.
- Do NOT run the first operation until it has been confirmed there are no gas leaks.
- Do not turn on the gas supply until the gas leak(s) have been repaired.

Caution Notes

As you read this information, take particular note of the NOTICE, CAUTION, WARNING, and DANGER symbols when they appear. This information is important for safe and efficient use of the Aqua-Hot system.

NOTICE signals a situation where potential damage to the Aqua-Hot could occur.

NOTICE

CAUTION signals a situation where potential harm or risk of minor or moderate injury could occur if you do not follow instructions.

CAUTION

WARNING signals a hazardous situation where potential harm, risk of serious injury, or death could result if instructions are not followed.

WARNING

DANGER signals a situation where immediate risk of serious injury or death will result if instructions are not followed.

DANGER

NOTE: This manual will also use notes sections similar to this one to draw attention to features and practices which must be observed.

DANGER



Water temperature over 125°F can cause severe burns instantly, or death from scalds. Children, disabled, and elderly are at highest risk of being scalded. See instruction manual before setting temperature at water heater. Feel water before bathing or showering! Temperature limiting valves are available.

Introduction:

The following table is a checklist of important items that need to be completed for a successful install of the Aqua-Hot heater in your RV. Please confirm each item is properly completed before utilizing the Aqua-Hot heating system.

Should additional assistance be needed, please contact the Technical Support team at 574-AIR-XCEL, Monday through Friday, between 7:00am to 4:00pm MST. You can also email at service@airxcel.com. Authorized Service Centers can also be found online at www.aquahot.com.

WARNING!

Read and understand all instructions **before** installing the Aqua-Hot unit. Aqua-Hot Heating Systems is not liable for damage resulting from failing to follow instructions contained in this, and any other Aqua-Hot documentation relevant to this unit.

Improper installation, adjustments, service and maintenance can cause personal injury or loss of life. Reference the installation and user manuals **before** installation or service.

Contact your authorized service or Aqua-Hot Heating Systems if you have any questions **before** starting installation.

WARNING

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

All vehicle installations must comply with the requirements listed in the Recreational Vehicle Industry Association's (RVIA) ANSI/NFPA 1192 Handbook for Recreational Vehicle Standards.

Completed	Description	Page No.
	Aqua-Hot Installed	7
	Air Intake & Exhaust System Installed	8-10
	Gas system properly installed	12
	Domestic Water System plumbed to the Aqua-Hot	13
	Thermistor wired to Aqua-Hot	15
	12VDC connected to Aqua-Hot	16
	110VAC connected to Aqua-Hot	16
	Aqua-Hot LCD mounted in correct orientation	17
	System checks performed before first operation	25
	First operation properly performed	26

Read and understand all instructions **before** installing the Aqua-Hot system. Aqua-Hot Heating Systems is not liable for damage resulting from failing to follow instructions contained in this, and any other Aqua-Hot documentation relevant to this unit.

- Read this manual **before** installing or using the Aqua-Hot System to reduce the risk of injury to persons or damage to the equipment.
- The product identity label contains specifications of the unit, to what standards it has been tested, and important safety notices.
- Disconnect electric wiring to the Aqua-Hot System before welding or plasma cutting the RV to avoid damage to the electrical components.
- The Gen 1 tank *must* have a cold water inlet pressure regulator set to 45PSI or below to avoid damage to the tank.



- Use caution when working on or near any propane system.
- DO NOT connect the 12-volt DC power to the Aqua-Hot if the vehicle requires welding.
- Use special caution when children are present. Children must not be allowed to play with the heater or perform cleaning and maintenance.
- All vehicle installations must comply with the requirements listed in the Recreational Vehicle Industry Association's (RVIA) ANSI/NFPA 1192 Handbook for Recreational Vehicle Standards.
- At maximum operating temperature, the hot air outlet could be very hot that may result in serious burns or injury. Be aware of hot surfaces.
- The burner produces very hot temperatures that can ignite surrounding flammable materials. The burner should be turned off when loading or unloading flammable materials.



System Overview

The Aqua-Hot Gen-1 Heater is a Heating System that can provide interior heat and hot water using a built-in electric heating element and a propane burner. The heater can be used while driving.

There are three options for heating:

- **LPG Mode:** the heater automatically adjusts power according to temperatures.
- **Electric Mode:** manually select either the 900W or 1800W heating mode according to the power supply capacity of the shore power.
- **Hybrid Mode:** the system will control the use of electric and LPG heating based on the power demand on the system.

Important Notes:

- A qualified installer or service technician must perform equipment installation or service.
- Installation, repairs, and warranty work may only be carried out by a qualified technician. The heating system must be installed in accordance with local codes, or, in the absence of local codes, follow ANSI/NFPA 1192.
- Aqua-Hot will not be liable for problems or damage caused by the system being installed by unqualified technicians.
- This heating system has been certified for installation only in recreational vehicles as a Class I Appliance, not certified for use in boats.
- The Aqua-Hot heating system operates independently of the vehicle engine and is connected directly to the electrical system of the vehicle or towable.
- Please read this manual and follow instructions to avoid injuries during installation and/or operation.

NOTE: Contact your Authorized Service Center or Aqua-Hot Heating Systems if you have any questions **before** starting installation. Information can be found online at www.aquahot.com.

Safe Installation of the System

Become familiar with the installation process before installing in the vehicle or towable.

- Make sure to protect the heater during installation. Do not drop or stand on the heater.
- Routing of the fuel system and electric (110VAC & 12VDC) must be isolated and not in contact with fuel supply at any point of the installation.
- Only turn off the burner at the interior switch. It must be obvious to the user when the heater is switched on or off.
- Do not disconnect the 12V DC power supply prior to the purge cycle.
- Only shut down the burner via the battery disconnect in the case of an emergency or danger.
- Do not allow the wiring or wiring harness to come into contact with sharp edges on metal panels. The wires can become damaged and short circuit and potentially cause a fire. Use caution when installing the wiring.
- Protect any vehicle parts near the burner from excessive heat damage, or from contamination from fuel.
- Make sure the internal combustion burner will not pose a fire hazard even in an overheat situation. Take care in placing the heater with enough space from vehicle parts and that the burner will have ample ventilation.
- The serial label must be visible and legible after the heater has been installed.
- All precautions must be taken to minimize the risk of personal injury or damage to the burner or vehicle.

Fuel Supply

- All vehicle installations must comply with the requirements listed in the Recreational Vehicle Industry Association's (RVIA) ANSI/NFPA 1192 Handbook for Recreational Vehicle Standards.
- The fuel system must comply with the technical and administrative regulations of the respective country of use.

Exhaust System

- Do not operate the heater in an enclosed space or a space that does not have exhaust ventilation. Fumes from the exhaust may be toxic.
- The exhaust system must be positioned so that the fumes will not get into the interior of the vehicle through ventilation openings or windows.
- *Exhaust termination location must comply with ANSI/NFPA 1192 Handbook for Recreational Vehicle Standards.*



WARNING

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

Air Intake Inlet

- The burner combustion chamber air must not be taken from the interior of the vehicle, only fresh air from the exterior.
- An intake line is required for the intake air.
- The air inlet must be positioned in an unobstructed manner.

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 any electrical switch or use any phone or radio in the vehicle.
- Do not start the vehicle's engine or electric generator.
- Contact the nearest gas supplier or qualified service technician for repairs.
- If you cannot reach a gas supplier or qualified service technician, contact the nearest fire department.
- Do NOT run the first operation until it has been confirmed there are no gas leaks.
- Do not turn on the gas supply until the gas leak(s) have been repaired.
- Installation and service must be performed by a qualified installer, service agency, or gas supplier.

THE AQUA-HOT'S EXHAUST IS HOT!

- Do NOT operate the burner inside an enclosed building.
- The heater must be switched OFF when refueling.
- The heater is not to be operated while the vehicle is being refueled, if the towing vehicle is being refueled, or if the vehicle is in an enclosed space.
- The heater is not to be used while any appliances are being refueled or serviced.
- Aqua-Hot will not be liable for problems and/or damage caused by the system installed by untrained technicians.



WARNING

The heating system can produce dangerous CO gas when the propane system is operating if not properly installed or operated. Read all safety instructions before install or use.



For full details and installation requirements, please see installation and owner's manuals.

Minimum Service Clearances
 Front - 4 Inches
 Back - 1 Inch
 Sides - 0.5 Inch
 Top - 2 Inches
 Bottom - No Clearance Necessary

This appliance must be installed in accordance with local codes or, in the absence of local codes, the Standard for Recreational Vehicles, ANSI A119.2/NFPA 1192 or CAN/CSA-Z240 RV.



Meets or Exceeds: ANSI Z21.47 CAN/CSA 2.3
 Listing 20L01

Max Tank Pressure	65 PSI
Tank Capacity	2.6gal (10L)
Power (DC)	12VDC, 10A, 120W Max
Power (AC)	120VAC, 15.6A, 1800W Max
Fuel Pressure	12 ± 1 inches of water
Burner	Propane, 20,470 BTU/hr

Model Number: AHE-GXN-PX1
 Serial Number: XXXXXXXX



Figure 1

Main Technical Specifications			
Rated Voltage	DC12V		
Operating Voltage Range	DC10.5V - 16V		
Short-Term Max Power	5.6A		
Average Power Consumption	1.3A		
Fuel Type	LIQUID PROPANE		
Fuel Heat Power (W)	2000	4000	6000
Fuel Consumption (G/h)	605	1211	1817
Gas Pressure	12 ± 1 inches of water		
Warm Air Delivery Volume	169 CFM (max)		
Water Tank Capacity	2.6gal (10L)		
Maximum Pressure of Water Pump	40 PSI		
Maximum Pressure of System	65 PSI		
Rated Electric Supply Voltage	110V		
Electrical Heating Power	900W	1800W	
Electrical Power Dissipation	7.85A	15.6A	
Working Environment	5 °F - +176 °F		
Weight (lbs)	34.4lbs (dry)		
Dimensions (in)	20.1 x 17.7 x 11.8		

NOTE: This product label is attached to the side of the Aqua-Hot, and provides a ready reference to specifications, test standards, and important safety notices.



CAUTION

As with any appliance, allow the Aqua-Hot to completely shut down BEFORE disengaging the RV 12V power disconnect.

All vehicle installations must comply with the requirements listed in the Recreational Vehicle Industry Association's (RVIA) ANSI/NFPA 1192 Handbook for Recreational Vehicle Standards.

Aqua-Hot Gen 1 Heater	
1.	Heater
2.	Air Intake Inlet
3.	Exhaust Outlet
4.	Controller Cover
5.	Plastic Frame Feet
6.	Aluminum Frame Feet
7.	Circulated Air Intake
8.	Cold Water Connection (Inlet)
9.	Propane Gas Connection
10.	Hot Water Connection (Outlet)
11.	Fan for Intake Air
12.	Water Tank
13.	Warm Air Outlets (Upper)
14.	Warm Air Outlets (Lower)
15.	Recessed Grips
16.	Electronic Control Unit
17.	LCD Control Screen

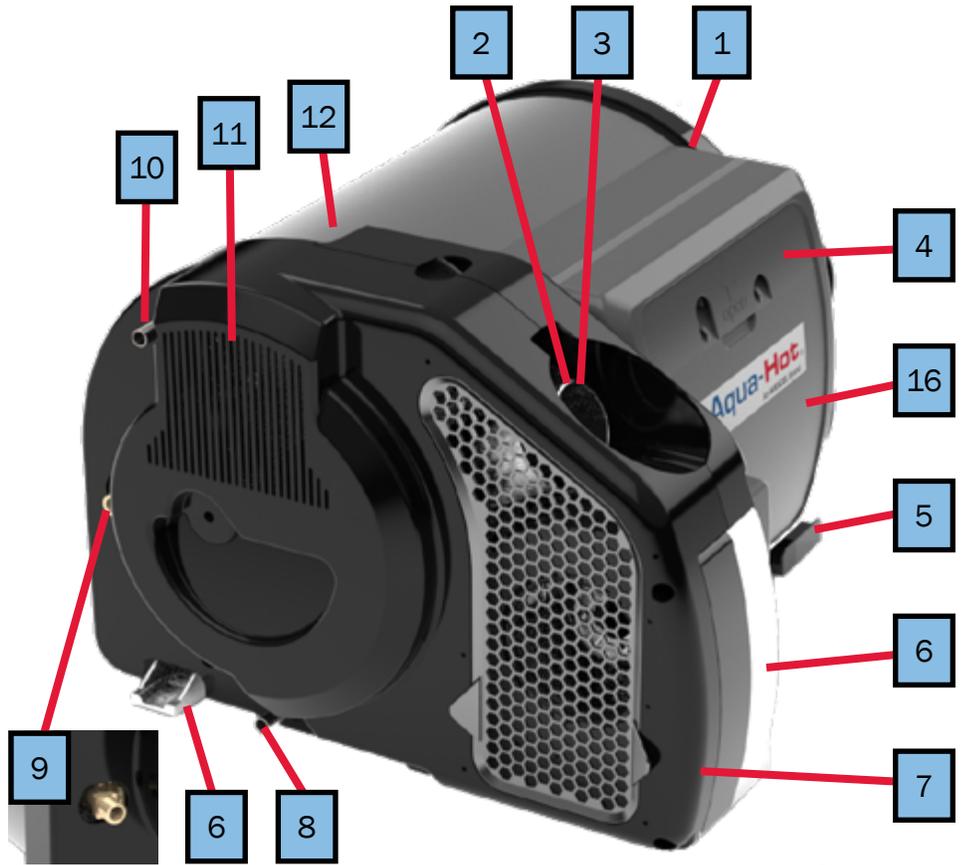


Figure 2



Figure 3



Figure 4

Installing the Heater

Install the Aqua-Hot in a compartment which protects the unit and allows service access to the top and front panel of the Aqua-Hot. This heater must be installed in the RV's interior.

1. Reference the following illustrations below for mounting information.
2. Secure the Aqua-Hot to the RV floor using appropriate mounting hardware to suit flooring material and tolerances.
3. The Aqua-Hot is best placed where easy access to the top and front is guaranteed for service.

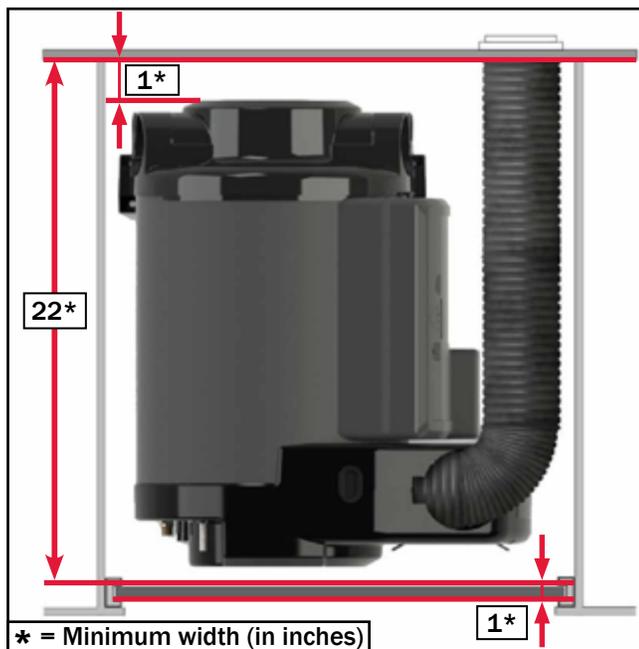


Figure 5

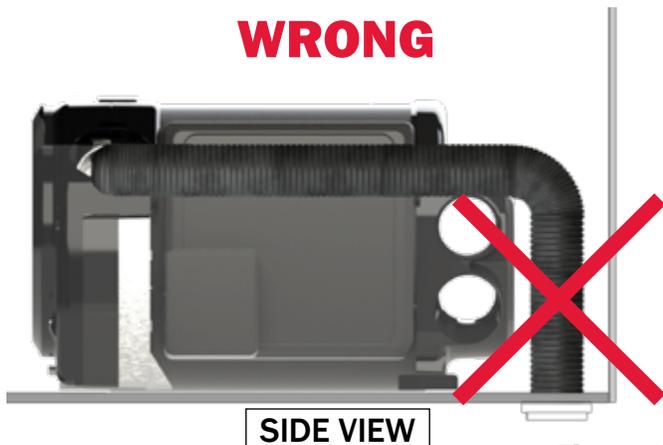


Figure 6

Support and Clearances

Make the following considerations when supporting the Aqua-Hot to ensure its most optimal operation and location. Dimensions for the mounting tabs are shown below. **NO COVER IS ALLOWED ON THE HEATER**

- Ensure that the floor of the mounting location can support at least **70lbs.**
- Use (3) mounting screws to the aluminum/plastic frame feet to secure the Aqua-Hot in place on the RV floor to prevent damage to the fuel lines during driving and operation.
- The best place for the Aqua-Hot heating system is in the center cabinet or storage space to ensure that the heater evenly distributes heat, making sure there is ample space to remove the service panels on the top and side.
- Exhaust pipe minimum length is 24in and the maximum length is 80in.

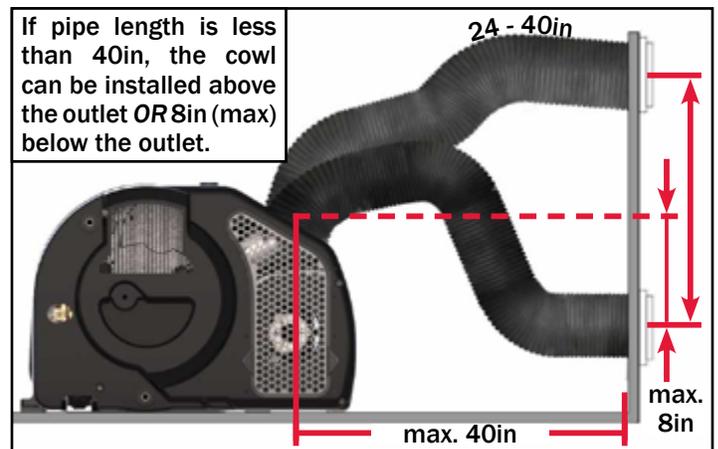


Figure 7

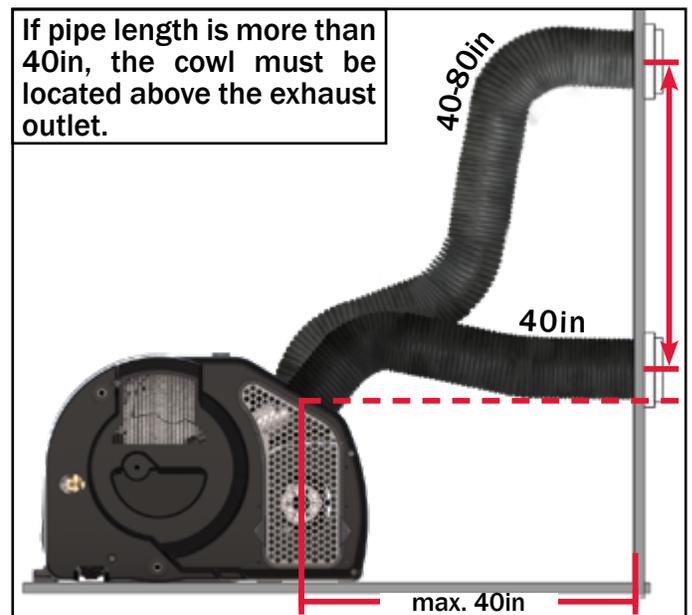


Figure 8

Exhaust & Combustion Air Intake System

The exhaust pipe passes through the air intake pipe. The exhaust pipe should be slightly shorter than the intake pipe. The exhaust vent must be installed on the side wall.

The length of the intake and exhaust pipe should be between 24 - 80 inches. Reference figures 5-8 for permissible routing.

- The air intake shall not be supplied from living areas. The air intake opening must not point in the direction of travel. It should be free from potential clogs from snow, debris, or water.
- There is no air pressure difference between the exhaust gas outlet or air inlet.
- The air intake pipe must be positioned in a way that the intake will not terminate within the vehicle interior.
- Exhaust termination location must comply with ANSI/NFPA 1192 Handbook for Recreational Vehicle Standards.

Exhaust Cowl (Air inlet & outlet) Installation

- Cut the exhaust pipe and air intake pipe to length.
- If either end is damaged or bent, cut off approximately 0.8in.
- Slide the air intake pipe over the exhaust pipe.
- Select a flat mounting surface so that intake air can enter from all sides.
- Drill one hole (Ø 88mm, 3.3in) in the RV wall and seal with the gasket (Figure 9 #8) smooth side facing the exhaust vent and gasket facing the RV wall (Figure 9 #3).
- Slide a hose clamp (#3) over the exhaust and insert the pipe into the drilled hole. Tighten the clamp (torque 2.5 - 3 ft-lb).
- Insert the air intake pipe onto the ridges of the exhaust cowl (#11).
- Use 6 screws (#9) to secure the exhaust cowl. Make sure "TOP" faces upward.
- Use 2 screws to secure the exhaust cowl cover and then secure the exhaust pipe to the RV wall with the mounting clamp (#6).

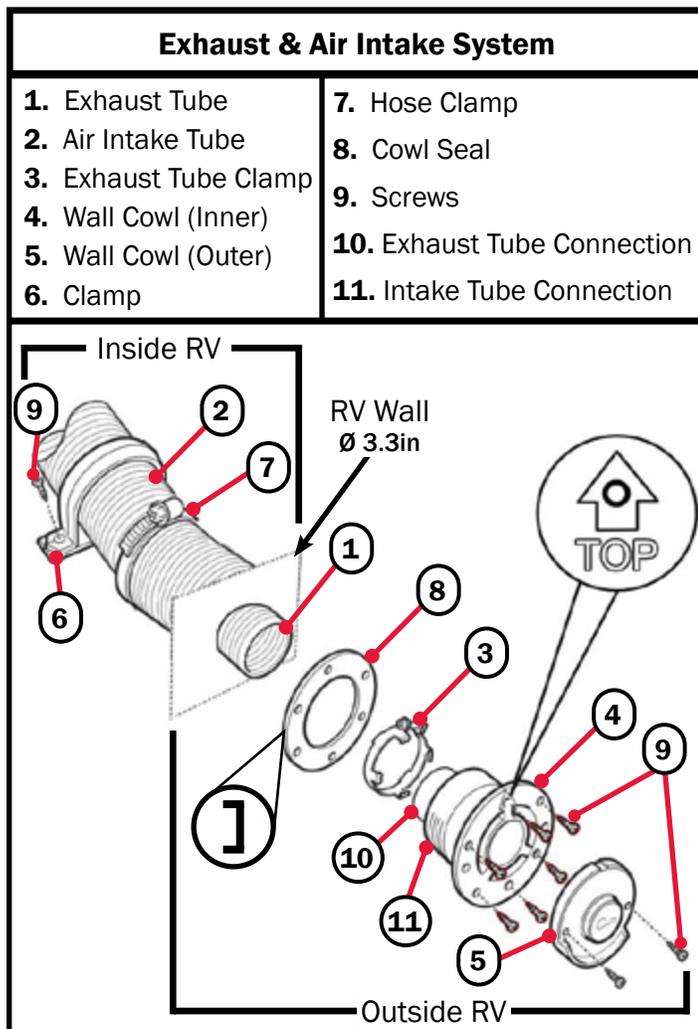


Figure 9

CAUTION

Sharp edges are present during the exhaust installation. Wear protective equipment during assembly.

All vehicle installations must comply with the requirements listed in the Recreational Vehicle Industry Association's (RVIA) ANSI/NFPA 1192 Handbook for Recreational Vehicle Standards.

- Should this particular application require modification, please contact Aqua-Hot Heating Systems at 574-AIR-XCEL (574-247-9235), for further assistance.

DANGER

RISK OF CARBON MONOXIDE POISONING

If RV or heater exhaust enters the RV, carbon monoxide in the exhaust can poison people causing serious injury or death.

Connecting Air Inlet to Heater

There should be 0.8in (20mm) at the end of the exhaust - pipe should be compressed, not straightened.

- Insert the exhaust pipe (#2) on the exhaust port as deep as possible.
- Attach the clamp (#1) on top and tighten.
- Place the air intake pipe (#4) over the inlet port.
- Place the clamp (#3) and tighten.

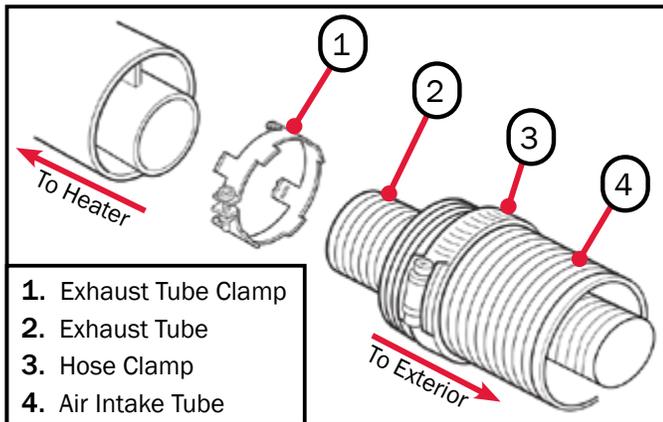


Figure 9a

Circulated Air Intake Installation

- The heater draws in circulated air from inside of the RV
- The air intake opening must be installed in a position so no exhaust fumes can be drawn in.
- The air inlet grate (#1) between the RV's living space and GEN-1's compartment space must be at least 23.25 in².

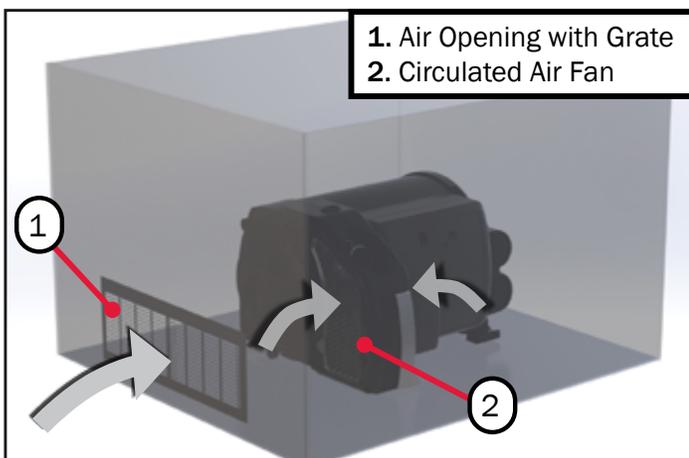


Figure 9b

Circulated Air Intake & Distribution Installation

- Warm air is distributed to the RV interior by flexible air ducts.
- The air ducts must be properly installed for the heater to correctly operate. The ducting from each outlet should be at least 3 feet (1m) long. Equal length ducts are ideal for even air distribution throughout the cabin.
- The longer ducts should be connected to the upper outlets.
- At least **3 of the 4** warm air outlets must be used for proper distribution of heat.
- The air outlets are connected to air ducts with an outside diameter of 2.6in (65mm). They must meet local requirements for pressure piping quality requirements..
- Each air duct must have at least one end outlet. The air outlet duct must be firmly inserted into the connection port.
- It is recommended to use 90° elbows for bends, keep the bends to a minimum
- If the duct length is less than 2.6in (65mm), the air duct should not be installed higher than the air duct connection on the GEN1.
- If the duct length is less than 20in (50cm), form a U-shaped trap near the air outlet (Figure 11) to prevent unwanted interior heating when the system is only in hot water mode.

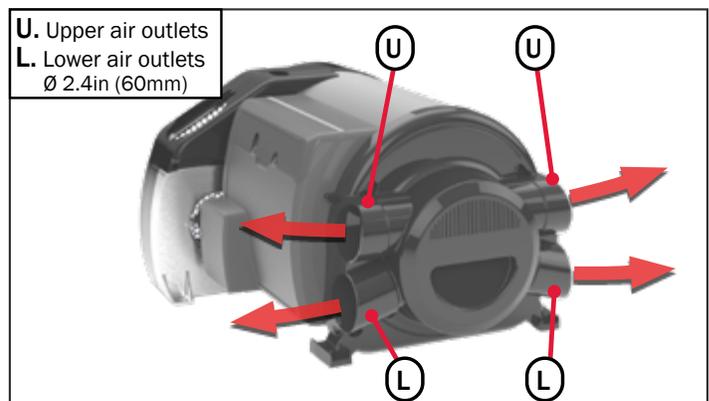


Figure 10

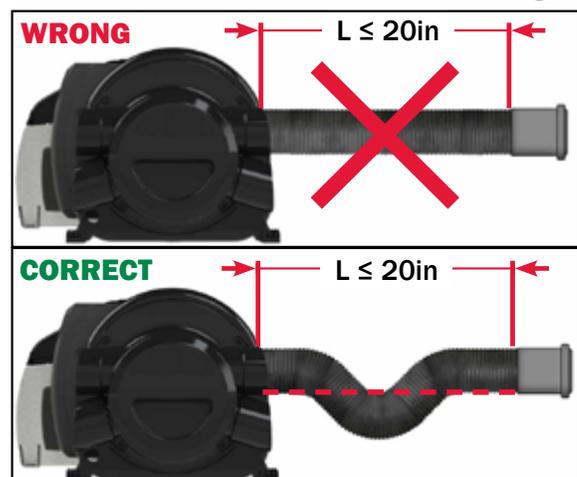


Figure 11

Installation for Insert Style Air Outlets

Parts: EXX-0110-160 & EXX-008-960

1. Drill a hole with a diameter of 3 inches into the wall.
2. Insert the outlet into the drill hole from the FRONT side of the wall.
3. Insert the warm air duct onto the outlet (from the back side of the wall) until it fits tightly.

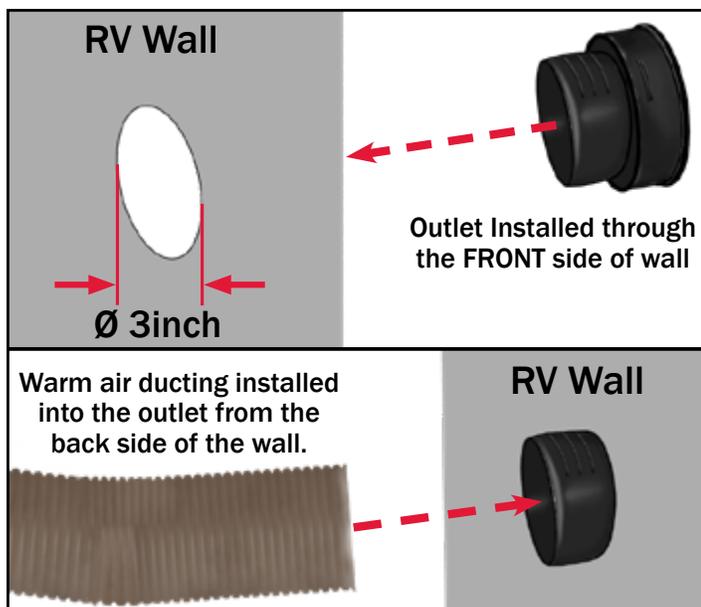


Figure 12

Installation for Wall Clamp Style Air Outlets

Parts: EXX-001-934, EXX-001-204, EXX-001-476, EXX-001-922, EXX-001-206, EXX-001-207

1. Drill a hole with a diameter of 2.5 inches into the wall.

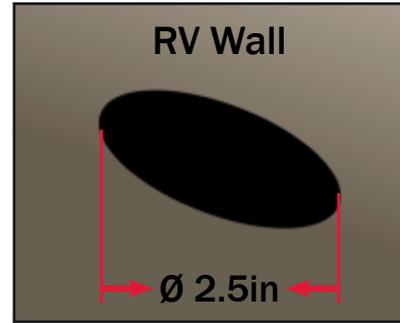


Figure 13

2. Attach the warm air duct to the backing nut or backing tee and place on the inside of the wall.



Figure 14

3. Insert the air outlet through the wall and screw into the backing nut or backing tee until firmly seating against the wall.

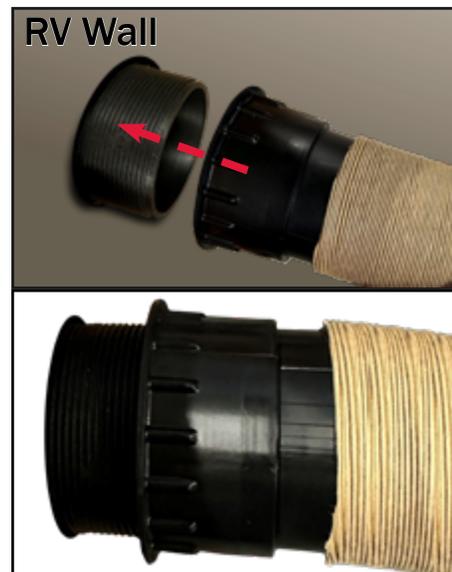
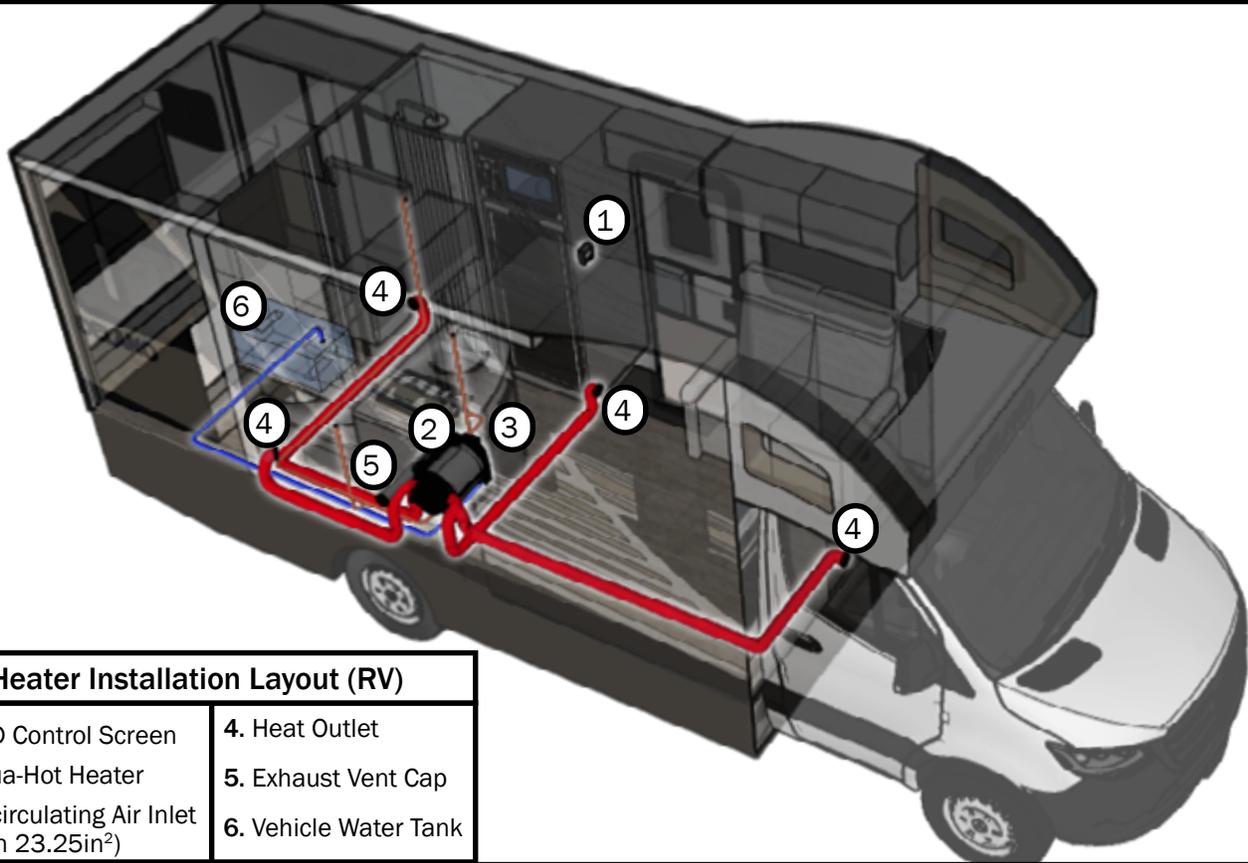


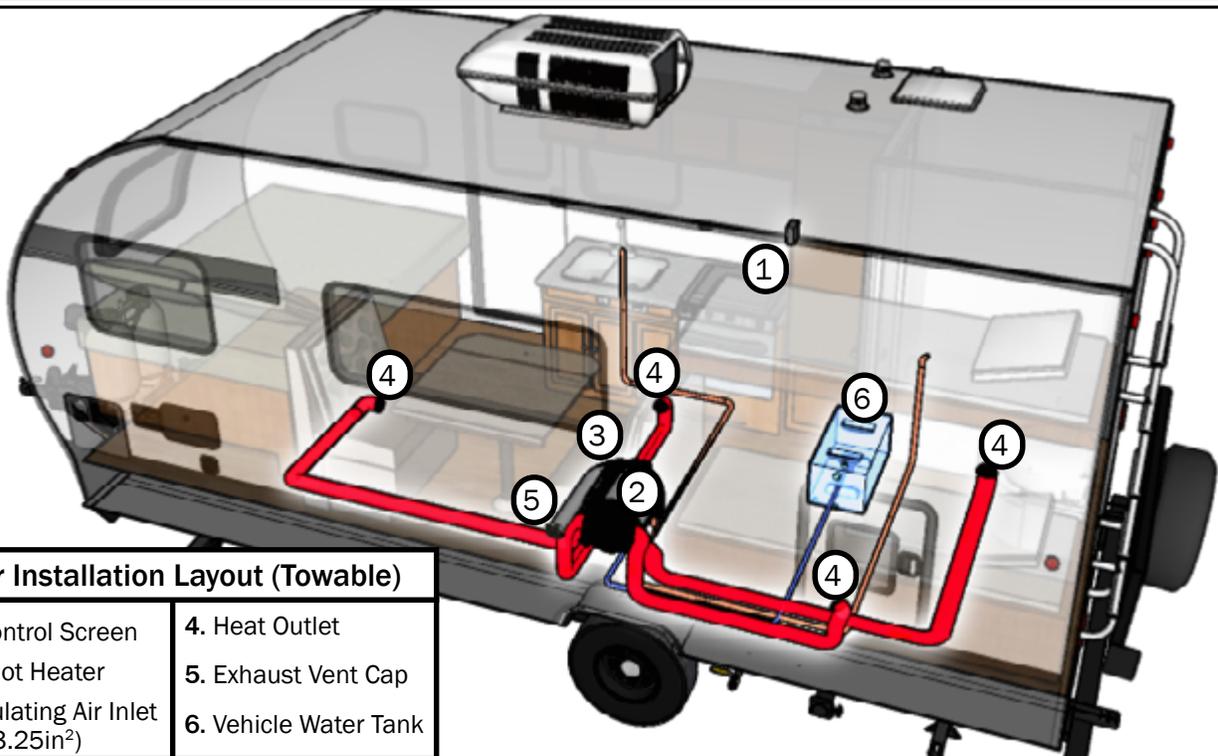
Figure 15

NOTE: The illustrations below are just samples for the layout of the Aqua-Hot heating system. Actual placement may vary on the individual design of the RV. For questions or assistance, contact us at 574-AIR-XCEL (574-247-9235).



Heater Installation Layout (RV)

- | | |
|---|-----------------------|
| 1. LCD Control Screen | 4. Heat Outlet |
| 2. Aqua-Hot Heater | 5. Exhaust Vent Cap |
| 3. Recirculating Air Inlet
(min 23.25in ²) | 6. Vehicle Water Tank |



Heater Installation Layout (Towable)

- | | |
|---|-----------------------|
| 1. LCD Control Screen | 4. Heat Outlet |
| 2. Aqua-Hot Heater | 5. Exhaust Vent Cap |
| 3. Recirculating Air Inlet
(min 23.25in ²) | 6. Vehicle Water Tank |

Figure 16

Gas Supply

Propane System Requirements

- The heater operating pressure must be in accordance with a 12 ± 1 inches of water LPG.
- The gas pipe should be clean and free of burrs.
- The gas pipe layout must be installed in a manner that allows for easy access for maintenance.
- Use high pressure air to purge internal debris before installing the gas pipe.
- It is recommended to install a safety shut-off valve (not provided) on the propane supply. It can be found at your local hardware store.
- An example of the shut-off valve is in the image below:

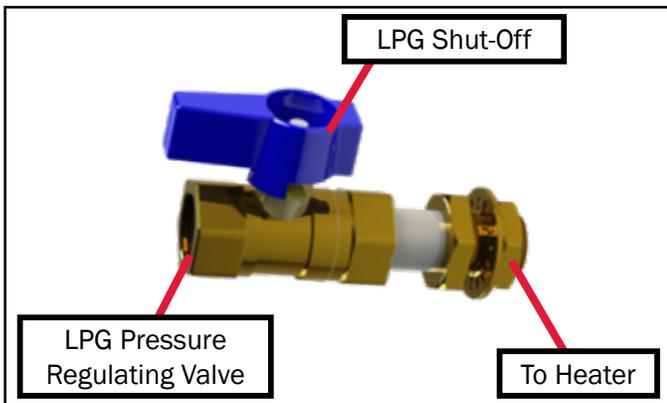


Figure 17

- Routing of the fuel system and electric (110VAC & 12VDC) must be isolated and not in contact at any point of installation.
- Entire length of LPG routing shall be accessible for inspection.
- Avoid tight bends and routing that may chafe hose-piping.
- All routing through floors or interior shall provide protection to piping (i.e. grommet, etc).

- The connections must not cause the pipe to twist, bend, or be crushed (#2 below) and the pipe must not come into contact with sharp items or edges and must not exceed a temperature of 122°F.

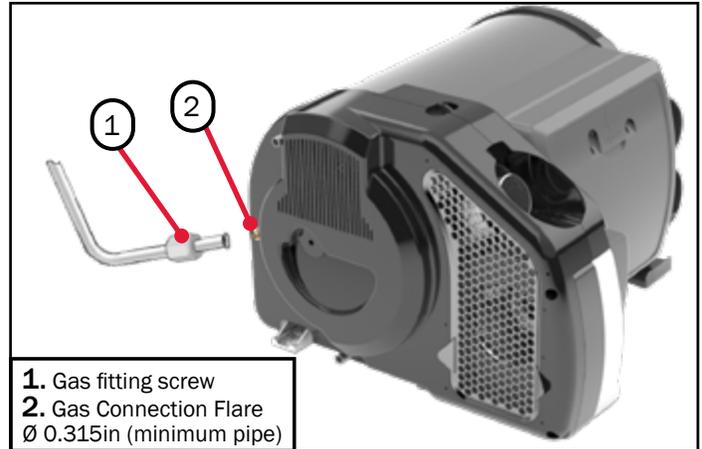


Figure 18

- The gas connection flare must not be shortened.
- Prior to connecting the heater to the gas lines, make sure the lines are free of dirt, debris, and blockages.
- The gas system must comply with regulations of the respective country of use (ANSI/NFPA 1192).

! WARNING

RISK OF EXPLOSION OR POISONING DUE TO IMPROPER INSTALLATION.

Only a qualified technician may perform installation or service.

! WARNING

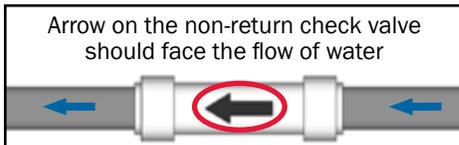
Exercise caution at all times when working on or near the propane gas systems.

Domestic Water System

- All water pipes, valves, and connectors must be safe for drinking water, pressure resistant (up to 60 PSI), and hot water resistant (up to 176°F).

NOTE: The water supply to the heater should not exceed 40 PSI in pressure. If water pressure is above 40 PSI, a pressure regulator is required.

- If the water pump is to be submerged, it is required to install a non-return valve between the pump and first water faucet on the cold water line.
- A pressure relief valve (60PSI) must be installed to protect the system from overpressure.
- The non-return valve (#6 Figure 16) must be installed in the proper direction:



- All connections must be secured by clamps or crimp rings.

- A low point drain valve should be plumbed to the exterior of the vehicle on the cold water line of the system. The low point drain should be placed between the heater and the non-return valve on the cold water side.
- The pressure relief valve should be on the hot water line exiting the heater and be routed to drain outside of the vehicle.

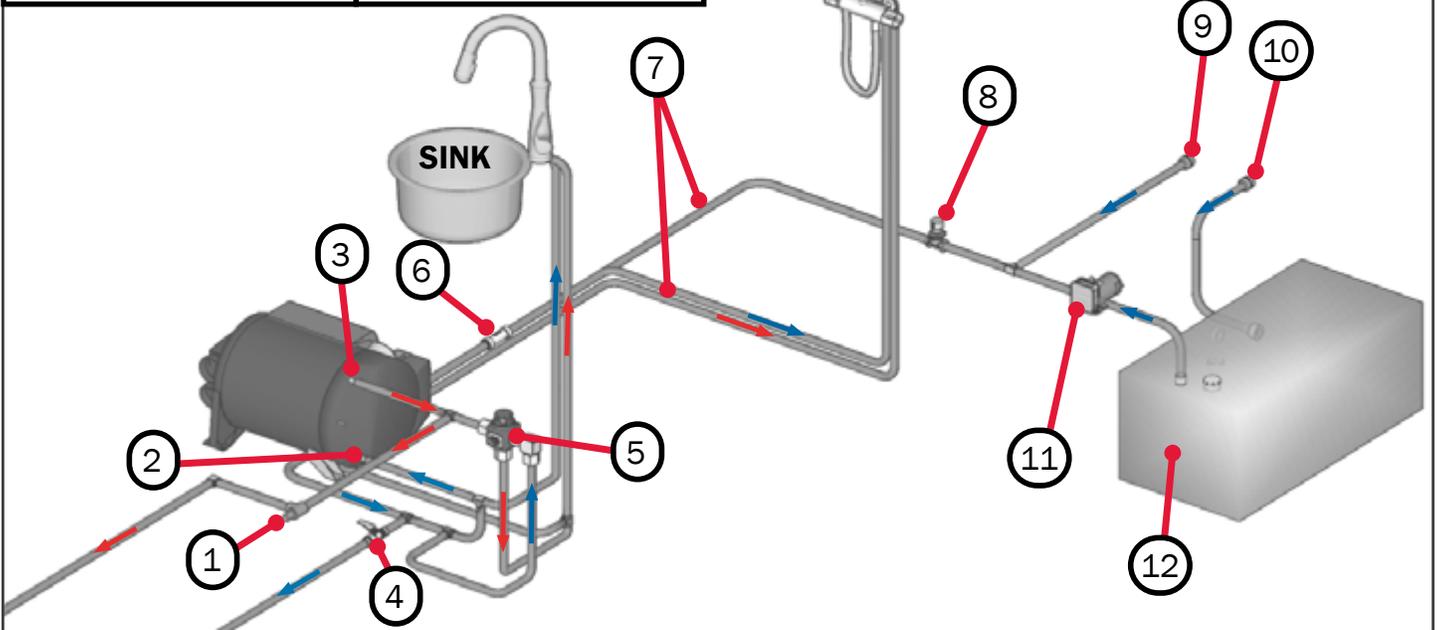
The domestic water system must be installed by a qualified technician and must follow all local code requirements or regulations.

Reference the diagram below for more information.

DANGER

Water temperature over 125°F can cause severe burns instantly, or death from scalds. Water temperature coming from the heater will be at 160°F. Feel water before bathing or showering! Temperature limiting valves are available.

Domestic Hot Water Installation Layout	
1. Pressure Relief Valve	7. Domestic Water Lines
2. Cold Water Inlet	8. Pressure Regulator
3. Hot Water Outlet	9. City Water Hook-Up
4. Drain Valve	10. Water Tank Connection
5. Tempering Valve	11. Water Pump
6. Non-Return Check Valve	12. Fresh Water Tank



NOTE: This diagram is just a sample for the layout of the hot water system. Actual placement may vary on the individual design of the RV.

Figure 19

Filling the Water System

Before filling up the system with domestic water, confirm that the relief valve and drain valve are closed.

- Turn on the pump power supply at the pump switch.
- Open a hot water faucet in the RV and keep open until all air is purged from the line and water continuously flows.
- Keep the water on until all air is purged and the water tank is filled.

⚠ DANGER



Risk of Severe Burn or Death from Scalds. Water temperature over 51°C (123.8°F) can cause severe burns instantly or death from scalds. See instruction manual before setting temperature at water heater. Feel water before bathing or showering. Temperature limiting valves are available, see manual.

WARNING:
HOT WATER CAN PRODUCE 3RD DEGREE BURNS
- IN 6s at 60°C (140°F)
- IN 30s AT 54°C (129.2°F)
WATER DELIVERY TEMPERATURE MIXING VALVE WAS FACTORY SET AT 49°C (120.2°F).
CONTACT QUALIFIED SERVICE PERSONNEL FOR ADJUSTMENTS.

Risque de brûlures graves ou la mort de brûlures. De l'eau à une température au-dessus de 51 °C (123,8 °F) peut ébouillanter et causer instantanément des brûlures graves allant jusqu'à la mort. Consultez le manuel d'instructions avant de régler la température du chauffe-eau. Vérifiez la température de l'eau avant de prendre un bain ou une douche. Des soupapes de limite de température sont disponibles, voir le manuel.

AVERTISSEMENT:
L'EAU CHAUDE PEUT PRODUIRE DES BRÛLURES DE TROISIÈME DEGRÉ
- EN 6s à 60°C (140°F)
- EN 30s à 54°C (129.2°F)
LA VANNE DE MÉLANGE DE TEMPÉRATURE D'ALIMENTATION EN EAU A ÉTÉ RÉGLÉE EN USINE À 49 °C (120,2 °F).
CONTACTER DU PERSONNEL DE SERVICE QUALIFIÉ POUR LES ADJUSTEMENTS.

LDE-003-260

Disinfecting the Domestic Water System

NOTICE

The Aqua-Hot Heating components are not compatible to prolonged exposure to sodium hypochlorite (bleach or liquid bleach). Using products containing bleach, including water refreshers, may cause corrosion of the domestic water lines, resulting in a catastrophic failure of the Aqua-Hot system by creating leaks that cannot be repaired. This damage is not covered by the Aqua-Hot warranty.

If disinfecting the hot water system, be sure to follow any current national regulations or any other applicable local standards for Water Systems.

NOTE: Extended exposure to household bleach will corrode the components of the Aqua-Hot will potentially dramatically shorten the operational lifetime of the Aqua-Hot. Under no circumstances is the Aqua-Hot to be exposed to household bleach for extended periods of time.

Connecting the Thermistor

The thermistor must be installed or the system will not operate properly. It is recommended to install the sensor away from direct heat.

Installation

1. For best performance, the sensor should be mounted unobstructed to the ambient cabin air.
2. Drill two mount holes and a third hole for the wires. Attach the thermistor using two fasteners.
3. Attach the necessary length of 20AWG wire to each end of the included wire in order to reach the GEN1 unit. Terminate each wire with the included spade connectors to connect to the GEN1 unit.

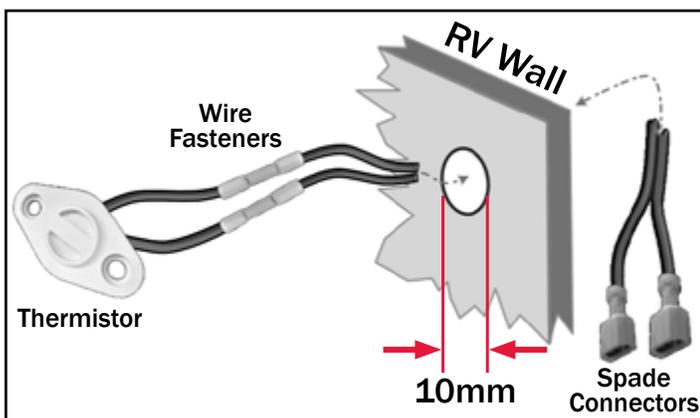


Figure 20

Electrical Connections

The electrical panel is located on the heater under the cover as shown below. The cover can be removed by pressing and sliding the arrow to release. Make sure the connecting cable is not pulled out when removing the cover.

Install wires away from sharp edges and metal surfaces, exhaust pipes, and fuel lines.

Connector cables and plugs should not be forced. Use tie-cables and fasten them to the housing with straps. The cables should not be able to loosen or disconnect when vehicle and heater are in operation.

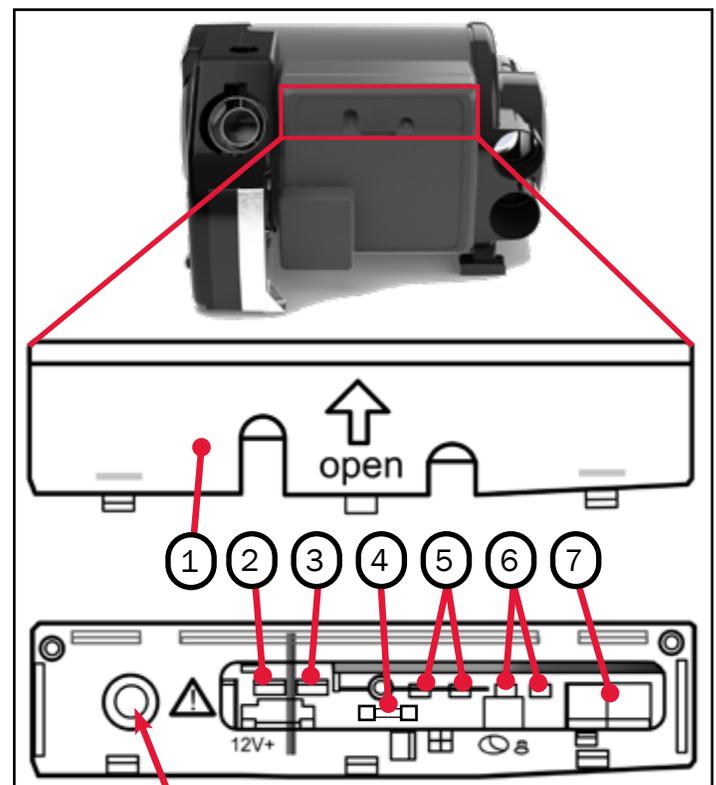


Figure 21

Heater Reset Button for Overheat protection

Controller Connections

- | | |
|-------------------------|-------------------|
| 1. Connection Cover | 4. 10A Fuse |
| 2. +12VDC Input Voltage | 5. Window Switch |
| 3. -12VDC Ground | 6. Thermistor |
| | 7. LCD Controller |

Connecting to 12V DC Power

Follow all guidelines and pay attention to all notes contained herein. Failure to adhere to these guidelines can inhibit unit performance, and may cause damage to the Aqua-Hot and/or the RV.

- Installation must be performed by a qualified professional according to current national regulations.
- The 12-volt supply to the heater must be connected to the battery and protected by an in-line fuse (10A).
- The main power and ground wires for the system should be installed directly to the vehicle battery as shown in the diagram below. The lines must be protected.
- The power supply cable must have a gauge of:
 - 14 AWG up to 16ft in length
 - 12 AWG up to 20ft in length

For lengths greater than 20ft, please contact Aqua-Hot.

⚠ CAUTION

DO NOT connect 12V DC power to the Aqua-Hot if the vehicle requires welding. Electrical welding will cause serious, irreversible damage to the Aqua-Hot.

⚠ WARNING

ELECTRICAL SHOCK HAZARD

The heater must be connected to a ground.

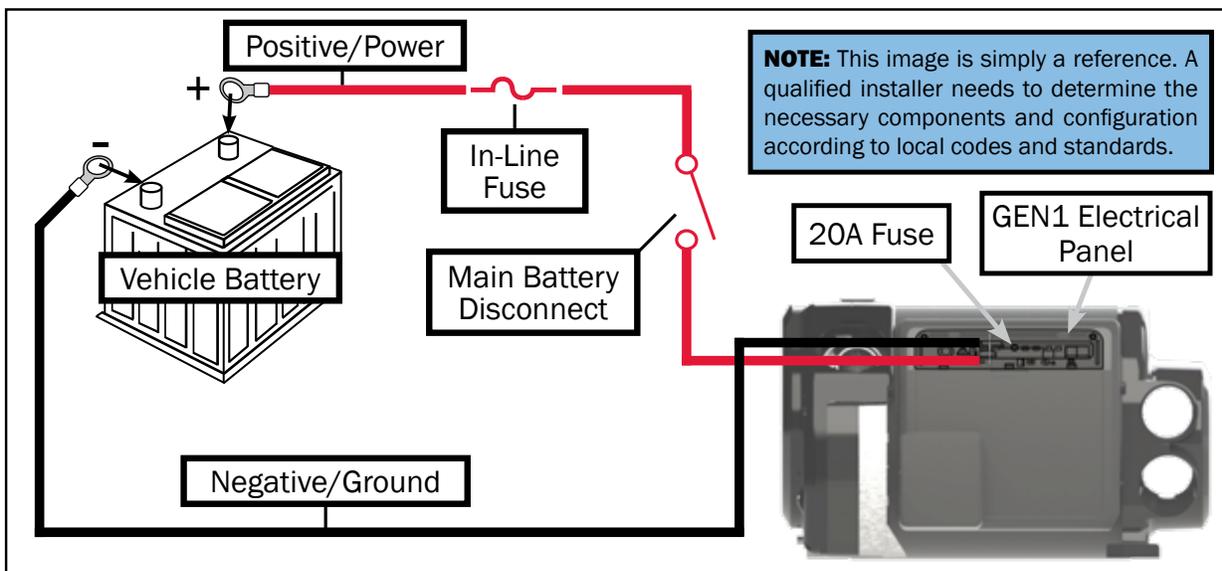


Figure 23

Connecting the Aqua-Hot to AC Power

The following section will detail how to connect the Aqua-Hot to the vehicle's AC electric system. When the RV is connected to an AC power source (plugged into shore power or a generator), the Aqua-Hot tank is heated by a 900W/1800W electric element. When ELECTRIC is turned on, DC power at the controller permits flow to the AC relay, which then activates the relay to send AC power to the electric element. The element will then heat the tank to between 165-180 °F.

- Installation must be performed by a qualified professional according to current national regulations.
- The heater must be connected to a 110V AC supply and be protected with a 20A breaker. The 110V AC must be separate from 12V DC.
- The Aqua-Hot uses a NEMA 5-20 plug.
- It must be possible to disconnect the power to the heater, either an easily accessible plug or a circuit breaker.
- The 110V AC circuit must be GFCI protected.

Connecting 12V DC power for LCD Display

The following section will detail the requirements to connect the Aqua-Hot LCD Display to 12V power.

- The LCD Display should be connected to 12V power without being routed through the main battery disconnect.
- A positive and ground wire located on the back of the LCD Display are to be connected to 12V power through a 1A fuse.
- A 1A fuse is required and should be placed in the vehicle's fuse box or in-line at an accessible location.

Aqua-Hot LCD

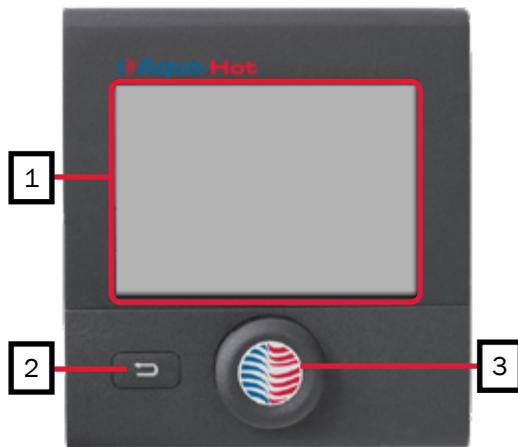


Figure 20

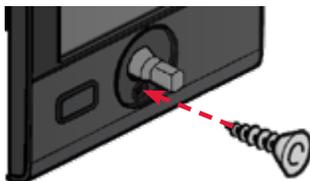
1 Display Area 2 Return Button 3 Rotary Button

Mounting Considerations:

- Install the LCD controller in an interior waterproof location and at eye level.
- The screen requires at least 1.25in of backside clearance to allow room for cables and connections.
- Reference the diagrams to the right for more information.

Mounting Procedure:

1. Cut a 84mm x 74mm hole in the RV wall.
2. Route the corners of this cutout with a 3mm diameter bit.
3. Using four M3x10 screws, secure the LCD bracket into place over the cutout just made.
4. Connect the LCD cable to the back of the LCD screen.
5. Secure the LCD screen into the mounting bracket using the (1) M3x6 screw.



6. Install the turn knob onto the face of the screen.

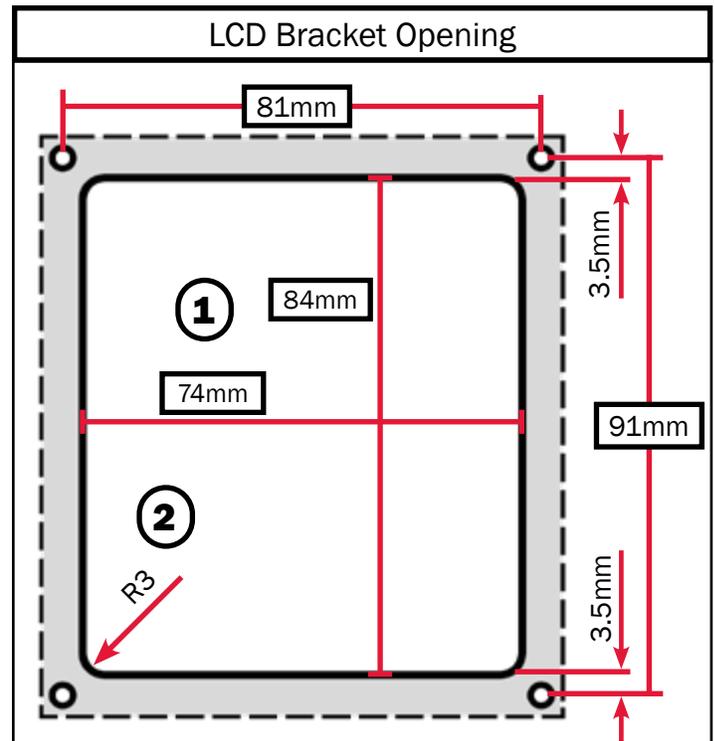
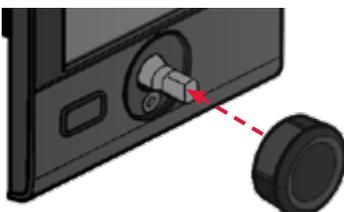


Figure 21

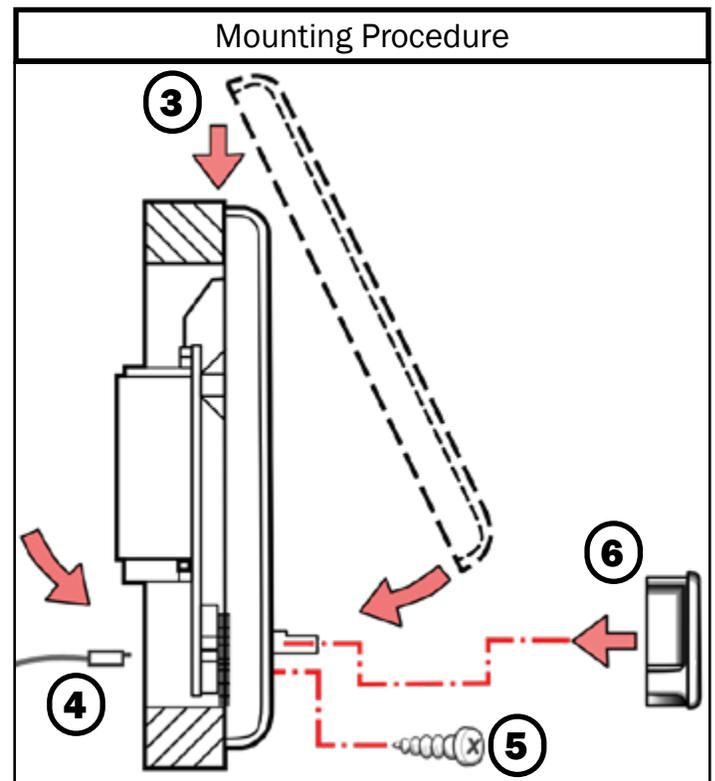
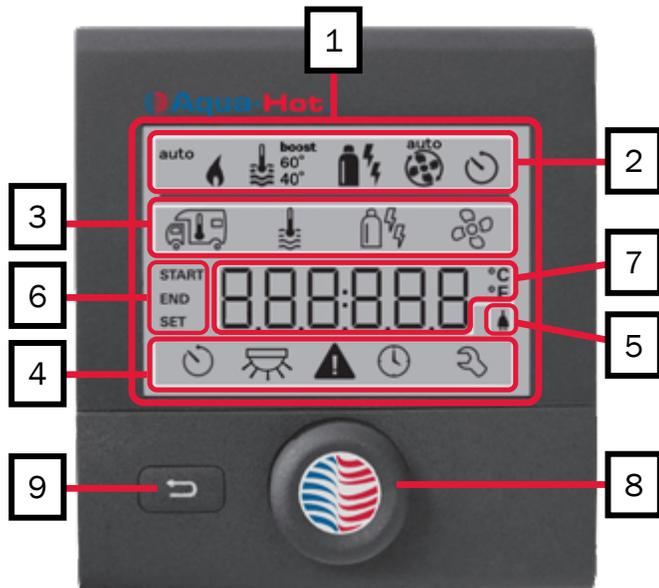


Figure 22

Operating the LCD



1 Display Area	6 Timing Display
2 Status Display	7 Parameter Setup Display
3 Menu Bar (top)	8 Rotary Button/Knob
4 Menu Bar (bottom)	9 Return Button
5 110/220V Electrical Display	

Display and Control Section:

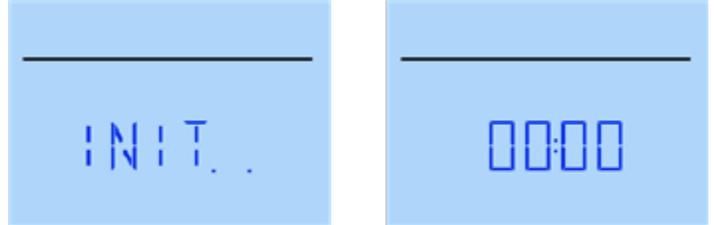
- The information is displayed on the screen with a back-light
- In the menu bar (#3, 4), the function of the LCD can be selected. The operating parameters are shown on the status bar (2) and display bar (5, 6).
- After the 110V is supplied to the system, the 110V power supply indication column (5) displays the power supply sign
- During heater operation, set the parameter bar (7) to display start/end times, and room temperature.
- Press the return button (9) to return to previous interface.

Rotary button (8)

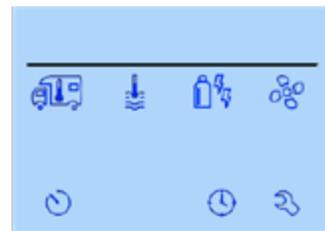
- Select, modify, and save icons for menu bars 3 & 4 by rotating the knob.
- Tap the button to confirm saving and return to main menu.
- Press and hold the button (+3seconds) to turn on/off LCD.

Power ON:

Hold the rotary button for 3seconds to turn on LCD. After a few seconds, the time is displayed as 00:00.



Click the rotary button to display the initial options in the display.

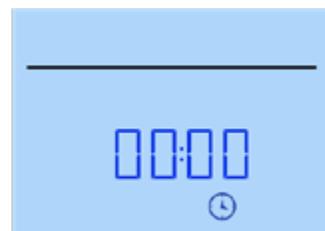


Clock setting (current time setting)

- Click the rotary button to display the icon in the menu bar (3).



- Use the rotary button to select "Set Clock" icon in the menu bar (4).
- Click the rotary button to enter the clock settings.



- Use the rotary button to set the time. "A-" is displayed in the morning and "P-" is displayed in the afternoon
- Click the rotary button again to determine the time, then the minute display flashes.
- Set the minute with the rotary button.
- Click the rotary button to confirm the value and exit the clock setting.
- Rotate button to start
- Press the rotary button for 3 seconds, the LCD will start.

Shutdown

Press the rotary button for more than 3s at the initial interface to shut down. When the LCD switch is turned off, the heating process and any connected equipment are also automatically turned off. The parameters before shutdown are retained.



Post-Purge Process (Cool-Down Cycle)

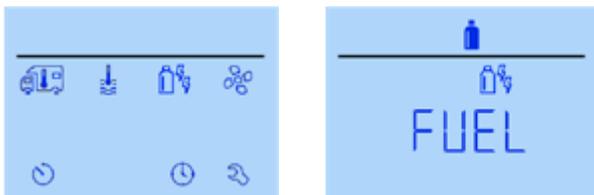
Since the heater has a higher residual heat after heating and a post-cleaning need, the fan typically runs for a few minutes for cooling.

Heating Function Settings

The heating function setting should first set the fuel, and then select water heating or room heating or simultaneous heating, and finally set the fan speed. The default heating function settings is the fuel setting and the fan speed setting ECO.

Fuel Setting

- Rotate the button to select the fuel icon in the menu bar (3).
- Click on the selected icon.



- Use the rotary button to select the desired fuel mode.
- Click the rotary button to confirm.

If the fuel type is not selected, once the heater starts to operate (room temperature, hot water icon is activated), the status bar shows the type of fuel selected during the previous heating process or the fuel type set at the factory.

Working Mode	Fuel Mode
GAS	LPG/Diesel/Gasoline
MIX 1	Electric 900W + GAS
MIX 2	Electric 1800W + GAS
EL 1	Electric 900W
EL 2	Electric 1800W



Adjustment of Interior Temperature

- Click the rotary button to display the icon in the menu bar (3). Select the room temperature heating system with the rotary button according to the connected device.
- Confirm the selection by clicking the rotary button on the selected room temperature icon.
- Use the rotary button to select the desired temperature.
- Click the rotary button to confirm its value.

Temperature Display	°C / °F
Temperature Range	5-30°C / 41-86°F
Increments	1° C/F

 This flame icon will be on when room temperature heating starts, this icon will flash until the predetermined room temperature is reached.



Adjustment of Water Heating

- Click the rotary button to display the icon in the menu bar.
- Use the rotary button to select the desired water temperature setting level.
- Click the rotary button to confirm

Working Mode	Energy Mode
OFF	Water heating is off - icon will not show
ECO	Water Temperature target of 104 °F
HOT	Water Temperature target of 140 °F
BOOST	Prioritizes water heating for 40 minutes or until the water temperature reaches 140 °F (60 °C)



 This icon will flash until the predetermined water temperature is reached.

In the "heating and hot water mode", the water temperature of 40°C can only be stored for a limited time (room heating priority).

Adjustment of Fan Speed (when air heating is enabled)

- Click the rotary button to display the icon in the menu bar.
- Use the rotary button to select the desired fan speed setting level.
- Click the rotary button to confirm.

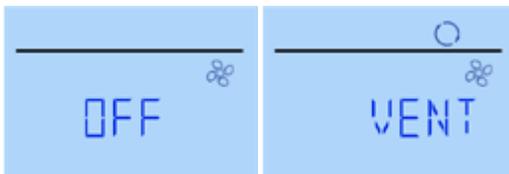
Working Mode	Energy Mode
OFF	Fan is off - icon will not show
VENT	Circulation ventilation. Can choose 10 levels of fan speed.
ECO	Low fan speed
LOW	Mid-speed
HIGH	High fan speed
BOOST	Fastest fan speed



Adjustment of Vent Fan Speed

NOTE: Vent Fan is for air circulation without heating.

- Only available when air heating is not enabled
- Select OFF or VENT

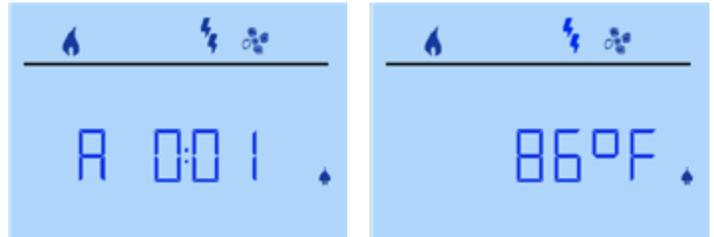


- If VENT is selected, set the fan speed between 1-10.



Heating Start

After the setting is finished, press the return key or wait for 10s to enter the clock interface, and the heating starts. The clock and set temperature are displayed alternately.



Heating End

Press and hold the rotary button for 3 seconds to shut down.

Timing Heating Settings

- Click the rotary button to display the icon in the menu bar (3).
- Click the rotary button to enter the timing settings.

 **WARNING**

DANGER OF TOXIC EXHAUST FUMES

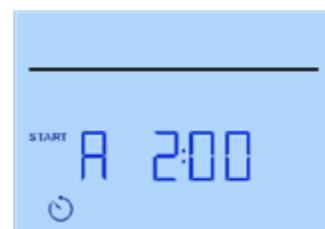
Even if the vehicle is stopped, unmanned, the activated time switch will turn on the heater. Exhaust gases from heaters may be toxic in confined spaces such as garages, workshops, and repair shops.

If the vehicle is parked in a closed room:

- Turn off the fuel supply to the heater.
- Turn off the timer switch of the LCD switch.
- Turn off the heater on the LCD switch. Press and hold the rotary button for 3 seconds to turn off.

Enter the Start-up Time

- Use the rotary button to set the start time.
- Click the rotary button to confirm and proceed to the next setting.



Enter the End Time

- Use the rotary button to set the end time.
- Click the rotary button to confirm and proceed to the next setting.



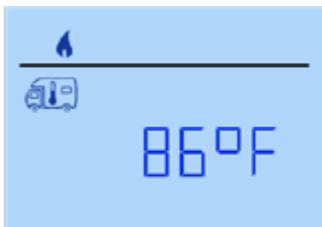
Select Fan Speed Level

- Use the rotary button to set the desired fan speed
- Click the rotary button to confirm and proceed to the next setting.



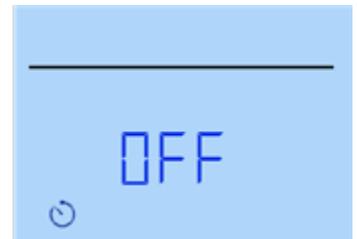
Set Room Temperature

- Use the rotary button to set the desired temperature
- Click the rotary button to confirm and proceed to the next setting.



Enable Timer

- Use the rotary button to select Enable Timing (ON). If OFF is selected, the timer is canceled, but the settings are saved.
- Click the rotary button to confirm and proceed to the next setting.



Set Water Temperature

- Use the rotary button to set the desired temperature
- Click the rotary button to confirm and proceed to the next setting.



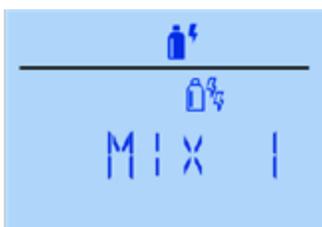
The time switch is only enabled once until it is disabled (turned off) or powered down. If the timer switch is programmed and enabled, the time switch icon is displayed in the status line (2). The timing icon flashes if the time switch is enabled and activated.

Cancel Timer

- With the timing set, use the rotary button to select the timing setting. Click the rotary button to enter the settings.
- Use the rotary button to select the cancel timing (OFF). If you select ON, continue to use timing. Click the rotary button to confirm that the cancellation timing is valid. But the previous settings are still saved

Fuel Mode Selection

- Use the rotary button to set the desired fuel mode
- Click the rotary button to confirm and proceed to the next setting.

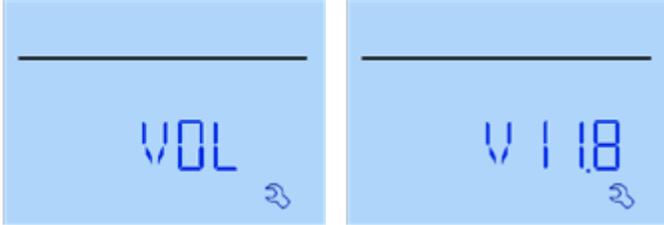


Parameter Settings

The content after the parameter setting is maintained after the power is turned off. Use the rotary button to select the "Settings" icon in the menu bar (4). Click the button to enter the settings.

Voltage Inquiry

- Click the rotation button to display the voltage: 12.0V.



Air Pressure and Temperature Inquiry

- Click the rotation button to select the ATMOS icon.
- Click the rotary button to enter the selection



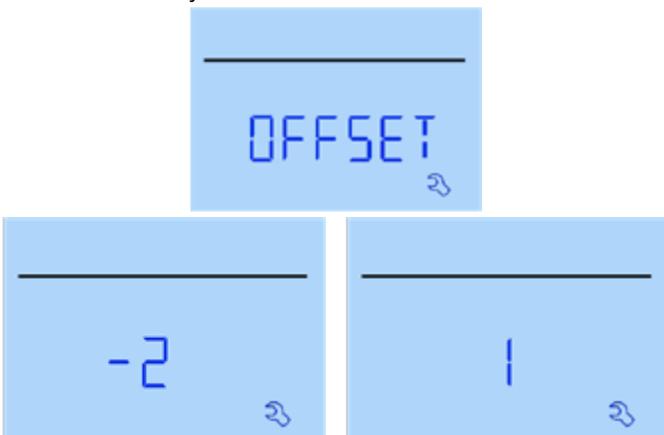
- Use the rotary button to switch between atmospheric pressure and ambient temperature.

Atmospheric pressure: 99KPa Ambient temperature: 89°F

Offset Setting

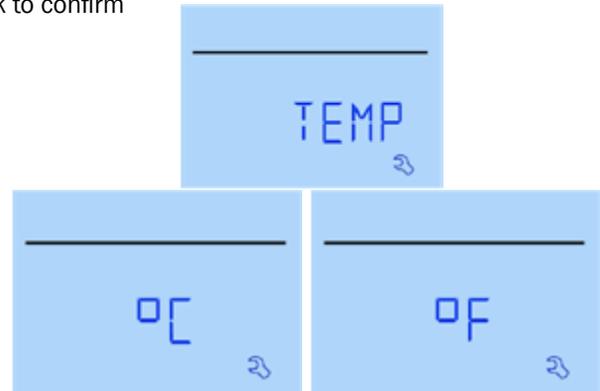
The external temperature sensor of the heater can be adjusted separately depending on the installation of the sensor. The offset setting can be in the range of -5°C to 5°C. The increment is 1°C.

- Click the rotation button to select the OFFSET icon.
- Click the rotary button to enter the selection



Switching Temperature Units

Use the knob to switch between Celsius and Fahrenheit, then click to confirm

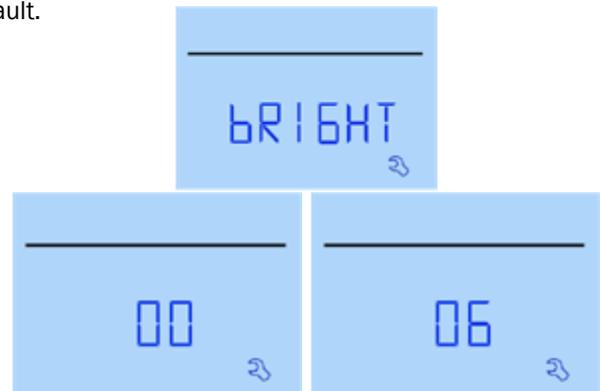


LCD Backlight Adjustment

The LCD backlight has 10 levels of incremental adjustment.

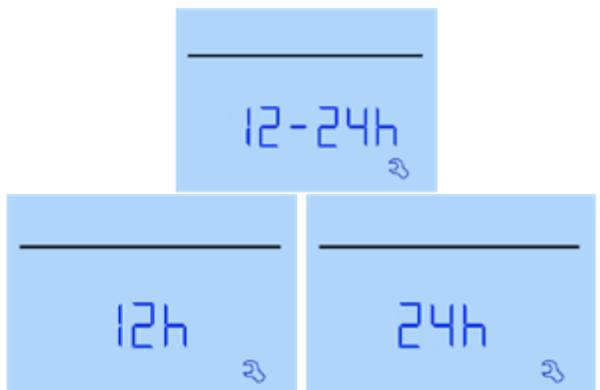
Use the rotary button to select the BRIGHT icon and click the rotate button to enter the settings.

The brightness of the LCD changes as the rotary button rotates. After confirming by clicking the rotary button, return to the previous operation. The backlight brightness is set to 6 by default.



Time Settings

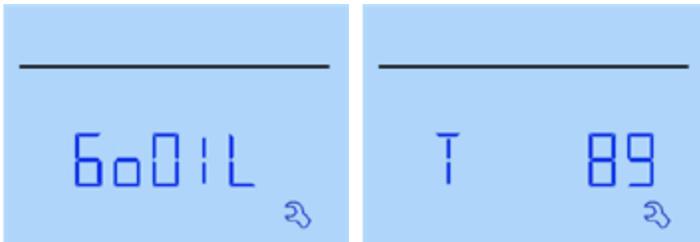
Use the rotary button to select the time format setting icon and click the rotary button to enter the settings. Use the rotary button to select the 12h or 24h icon and click the rotary button to confirm. The default setting is 24h.



Fast Pump Settings

Select pump oil icon GoOil with rotary button.

- Click on the rotary button to enter the fast pump oil. The default fast pump time is 90 seconds. The remaining time can be adjusted with a knob.
- Press the return key or stop the fast pump if the pump oil time exceeds the set value.



Software Version Number

- Use the rotary button to select the INDEX icon and click the rotary button to enter the query item.
- Use the rotary button to view the information of the LCD switch or the information of the main controller.
- Click the rotary button or want to go back to return to the previous operation.



C5.100 - LCD Version **H11.10** - Master Controller Version

Factory Settings

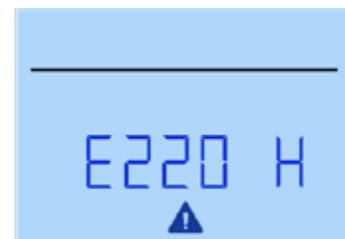
- The reset function resets the LCD switch to factory settings. All previous settings will be deleted. All devices used before RESET is installed and powered.
- Use the rotary button to select the RESET icon and click the rotary button to display the factory setting PR SET.
- After confirming, the initialization "INIT....." is displayed.

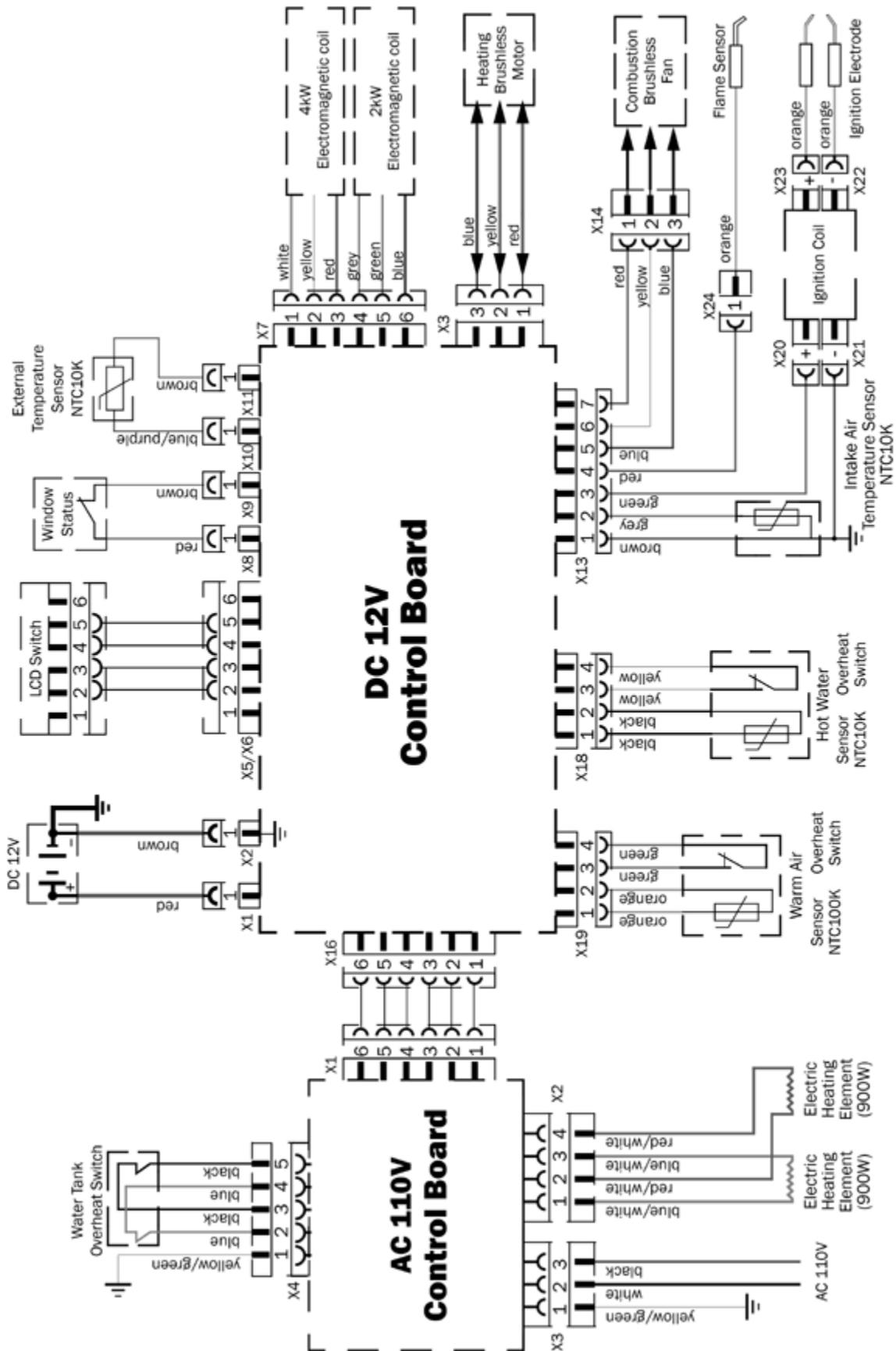


Fault Display

- Use the rotary button to select the icon and click the rotary button to display the current warning code (for troubleshooting, please refer to the relevant heater instruction manual).
- There are faults in the fault that are automatically recovered and manually recovered after repair.
- An automatic recovery fault is a warning fault in which an operating parameter has exceeded a defined normal working range and reached an undefined state. In this case, the device will continue to run and the warning symbol (▲) will be displayed in the menu bar (4) without warning code. After the fault is repaired, the warning symbol disappears automatically (it can also be manually restored), and the device continues to work according to the original settings. For example: warning fault code W 120 H.
- A manually recovered fault means that the fault code is displayed in the parameter setting 8 field (7) when the fault occurs. The cause of the fault can be determined and remedied by the help of the troubleshooting guide. The fault code disappears after a few seconds, and the warning symbol is displayed in the menu bar (4).
- Select Reheat after the fault is identified and resolved, first remove the fault code. Press the rotary button to display the fault code, then press the rotary button, the displayed fault code disappears and return to the initial time interface. Re-enter the heating parameters to initiate heating. If the fault is removed, the heating will be normal or the fault will occur again. The LCD switch will jump to the "Fault" menu again, the warning symbol will be displayed again, and the affected device will still be in the warning state. Since the fault has not been eliminated, if you want to return to the set level, press the back button (9). For example: fault code E 31 H. Shutdown and power off can also eliminate faults.

The fault code table and troubleshooting methods can be found in the tenth fault code table at the end of the manual.





Winterization

To avoid freeze damage to the system, the heater must be drained through the drain valve completely. If water is left in the system in below freezing temperatures, it can cause severe damage to the system that is not covered under warranty.

NOTE: The Aqua-Hot can continue to be used for interior heat once the domestic hot water system has been winterized.

- Turn off power supply and open hot water faucets in the RV.
- Place a container under the drain valve to catch the water.
- Open the drain valve and allow the water to drain out completely.

It is recommended to winterize if the RV will be stored for a long time or the system will not be used, and it is below freezing.

WARNING

Not winterizing the Aqua-Hot when freezing temperatures are present will result in serious damage to the Aqua-Hot domestic water heating system. The warranty does not cover freeze damage.

Maintenance & Storage

It is recommended to have the following service done once a year:

- Replace the fuel filter
- Check the air ducting, air intake and exhaust outlet for blockages or damage
- Check for damage or breaks in the fuel lines and wiring.

If the system has not been used for long periods of time, thoroughly flush all hot/cold water lines before use. It is recommended to run the heater at least once a month for 10-20 minutes to ensure optimum heater condition.

The water tanks must be cleaned regularly, minimum of twice a year. When the RV is driving or in storage, the temperature range should not fall below -40°F or rise above +185°F to prevent damage to the electronic components.

System Checks

Please do the following checks prior to the first operation to confirm the installation was done properly and safely.

1. Test all water connections and fuel connections/lines for any leaks. Make sure all the hose clamps are properly positioned and secured.
2. Ensure there is protection on any sharp edges or objects for the water and fuel lines, and wiring.
3. Make sure there the operating voltage is greater than 11.5V.
4. Make sure the power and ground connections are properly secured and installed.
5. Check that the fuses are in their proper, specified locations.
6. Make sure the fuse boxes are secure and protected from any water sources.
7. Ensure the vehicle battery is mounted properly and all connections are secure, and has a full charge.
8. The exhaust pipe should be a safe distance from any flammable materials (at least 2 inches).
9. Exhaust opening should be a safe distance away from any vehicle interior openings and should be directed to not cause back pressure while driving.
10. The air intake should get fresh air away from the direction of travel.
11. Ensure the air intake system is properly secured.
12. All plumbing and fuel lines should be purged of any air, as any air can cause a lock-out.

Once the system checks are complete and it has been confirmed that all is properly and safely installed, please continue to the first operation.

WARNING

AQUA-HOT HEATING UNIT

Avoid the Risk of Explosion:

- Switch Heater off at filling stations and areas where explosive materials, fumes, and dust may collect.

Avoid the Risk of Asphyxiation:

- Never operate heater in closed spaces such as garages and shops without adequate ventilation or exhaust extraction.

For further information on the safe operation of your Aqua-Hot heater, refer to your Aqua-Hot operating manual.

LDE-101-123

Aqua-Hot First Operation

The first operation of the Aqua-Hot heater may not light up perfectly. This is normal and may take a couple tries to get the fuel lines purged of air before a successful start-up. It is normal to produce a bit of smoke from the exhaust upon first operation.

NOTE: Make sure to perform all the system checks on Page 25 prior to starting this initial start up of the heater.

NOTE: It is recommended to run the system for at least 20 minutes every month to ensure optimum heater condition.

NOTE: The heater is thermostatically controlled. The element and/or burner will automatically maintain the temperature of the RV interior and domestic water.

Activation Instructions:

1. Make sure power supply to the Aqua-Hot is on. Use the LCD to operate.
2. Confirm that the water tank is adequately filled. Make sure to flush the domestic water system thoroughly with clean water prior to use.
3. Confirm the water system has been properly purged of any air.
4. Confirm there is adequate propane and the fuel system has been purged.
5. Hold the rotary button/turn knob down for 3s to wake up the LCD. Make sure LCD system is set up.
6. Select GAS, EL, or MIX to turn on fuel type. The heater should begin to heat.
7. Allow approximately 20 minutes for the system to heat the interior. Turn on a hot water faucet, and allow to run until hot water flows. Once there is hot water, close the faucet. This will verify that the system is operating as it should.

Once these checks have been confirmed, the heater is now ready for normal operation and use.



Troubleshooting

- Ensure that the system is supplied with electrical power and there are no blown fuses.
- Ensure that there is at least ¼ tank of propane in the gas supply.
- Make sure all the electrical and plumbing connections are connected and secure.
- Ensure there are no faults on the LCD. If there are, determine the fault and remedy. Refer to the table below for the fault code.

Fault Codes			
Error Code	Fault Name	Remedy	
10	Over-voltage	Check vehicle power supply	
11	Low Voltage	Check vehicle power supply	
21	Warm air outlet temperature sensor disconnect	Check temperature sensor connections	
22	Warm air outlet temperature sensor short circuit	Check temperature sensor wiring	
23	Water temperature sensor disconnect	Check temperature sensor connections	
24	Water Temperature sensor short circuit	Check temperature sensor wiring	
25	External temperature sensor disconnect	Check temperature sensor connections	
26	External Temperature sensor short circuit	Check temperature sensor wiring	
27	Combustion support temperature sensor disconnect	Check temperature sensor connections	IAT Sensor
28	Combustion support temperature sensor disconnect	Check temperature sensor wiring	IAT Sensor
31	Combustion Failure	<ul style="list-style-type: none"> • Check fuel supply system • Check intake and exhaust • Check ignition/glow plug • Check DC power supply • Check flame sensor 	
32	Combustion failure		
33	Flame sensor fault	<ul style="list-style-type: none"> • Check flame sensor wiring • Check flame sensor 	
41	Warm air outlet overheats	<ul style="list-style-type: none"> • Check air outlet for blockages • Open all vent covers • Check air overheat switch 	
42	Warm air overheat switch protection	<ul style="list-style-type: none"> • Check air outlet for blockages • Check air overheat switch 	
43	Water overheat	<ul style="list-style-type: none"> • Check water tank levels • Ensure heater tank is full • Check sensor wiring/connections • Check air outlet for blockages 	

Error Code	Fault Name	Remedy
44	Warm air overheat switch protection	<ul style="list-style-type: none"> • Check air outlet for blockages • Open all vent covers • Check warm air overheat switch
45	Overheat fault	<ul style="list-style-type: none"> • Check air outlet for blockages • Check water temperature sensor • Check warm air sensor
51	Communication fault	<ul style="list-style-type: none"> • Check network cable • Check heater power • Check PCB
61	Fuel Pump Open Circuit	<ul style="list-style-type: none"> • Check fuel pump lead for damage • Check fuel pump wire connections • Check fuel pump • Check PCB
62	Fuel pump Short Circuit	<ul style="list-style-type: none"> • Check fuel pump lead for damage • Check fuel pump wire connections • Check fuel pump • Check PCB
63	Electric element circuit broken	<ul style="list-style-type: none"> • Check power supply voltage • Check resistance at room temp (0.2Ω/12V) • Check 110V AC PCB
65	No power to electric element	<ul style="list-style-type: none"> • Check 110V AC PCB
81	Combustion fan disconnect	<ul style="list-style-type: none"> • Check combustion fan wiring • Check combustion fan
82	Combustion blower boot failure	<ul style="list-style-type: none"> • Check blower motor lead wire • Check combustion air blower
83	Combustion blower speed too low	<ul style="list-style-type: none"> • Check combustion air blower motor • Check combustion fan wiring
84	Warm air blower motor disconnect	<ul style="list-style-type: none"> • Check warm air blower motor • Check warm air blower wiring
85	Warm air blower motor boot failure	<ul style="list-style-type: none"> • Check blower motor lead wire • Check warm air blower motor
86	Warm air blower speed too low	<ul style="list-style-type: none"> • Check warm air blower motor • Check warm air blower wiring
110	Window alarm	<ul style="list-style-type: none"> • Close window • Check window alarm bridge/wiring
120	Low Voltage Fault	<ul style="list-style-type: none"> • Check power supply and connections
220	220V Disconnect	<ul style="list-style-type: none"> • Check AC 220V/110V power supply

Heater Lock-out Reset Procedure

To reset the heater from a lock-out, simply turn off the heater and disconnect power supply to the heater, wait for 20 seconds, then reconnect power supply and restart the system.



AQUA-HOT™ (2) YEAR LIMITED WARRANTY

Aqua-Hot Heating Systems Inc. warrants the AQUA-HOT heater to the original owner to be free from defects in material and workmanship under normal conditions of designed usage and service as outlined in the installation and operator manuals for a period of two (2) years covering both parts and labor beginning on the date of purchase of the vehicle by the original owner. Replacement parts are covered for the remainder of the heating systems warranty. All purchased replacement parts will carry a six months, (180) days warranty.

This warranty does not apply to scheduled maintenances items such as fuel filters and fuel nozzles, damage or failure of the AQUA-HOT heater or the vehicle into which it was installed due to improper installation, assembly, maintenance, abuse, neglect, accident, or the use of parts not supplied by Aqua-Hot Heating Systems, Inc. Aqua-Hot Heating Systems is not responsible for incidental or consequential damages.

The intent of this warranty is to protect the end user of the heating system from such defects, which might have occurred in the manufacture of the product. The warranty is not intended to protect the end user from problems, which are outside the ability of Aqua-Hot Heating Systems control.

To obtain a warranty repair authorization or information, please contact the Tech Support Department at 1-800-685-4298 (7:00am to 4:00pm Mountain Standard Time).

My Comfort Zones are On-Board

Vehicle:

Purchased From:

Dealer Information:

Name:

Location:

Phone Number:

Heating System:

Serial Number:



Scan the QR code on the right with your mobile device to take you to the website to register your Aqua-Hot product.

Installation Manual

Gen 1 Series



Gen 1 LPG
AHE-GNX-PX1



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