# TABLE OF CONTENTS

**Limited Warranty Statement**

**Introduction**
Introduction to the Aqua-Hot Hydronic Heating System ................................................................. Page 1

**Operating Instructions**
Activating the Aqua-Hot Heating System ......................................................................................... Page 4
Zone Thermostat Operation ................................................................................................................ Page 4
Using the Domestic Hot Water System .............................................................................................. Page 5
Aqua-Hot Operational Flow-Chart ...................................................................................................... Page 6

**Maintenance**
Monthly Maintenance .......................................................................................................................... Page 7
Replenishing the Antifreeze and Water Heating Solution ................................................................ Page 7
Annual Maintenance .......................................................................................................................... Page 7

**Winterization**
Winterizing the Domestic Water Heating System ............................................................................. Page 8
De-Winterizing the Domestic Water Heating System ....................................................................... Page 8

**Troubleshooting**
General Information .......................................................................................................................... Page 9
Electronic Controller Diagnostic ........................................................................................................ Page 9

**Appendices**
Appendix A: Antifreeze Types ........................................................................................................... A-1
Appendix B: Antifreeze Mixture Water Quality Recommendations ................................................ B-1
Appendix C: Antifreeze Terms and Mixture Ratio ............................................................................ C-1
Aqua-Hot® HYDRONIC HEATING SYSTEM
AHE-450-DE/DM

Aqua-Hot Heating Systems Inc. warrants the Aqua-Hot Heater to be free from defects in material and workmanship under normal use and service for a period of two years on both parts and labor commencing upon the original date of registration of the vehicle. Replacement parts are warranted for the remainder of the heater's standard warranty coverage or for six months, whichever is greater.

The intent of this warranty is to protect the heater's end-user from such defects, which would occur in the manufacturing of the product. Thus, problems due to improper specifications, improper installations, improper use, the use of accessory parts or parts not authorized by Aqua-Hot Heating Systems Inc., repair by unauthorized persons, and damage or abuse of the heater are specifically excluded from warranty coverage.

For additional information or to obtain a warranty repair authorization, please contact the Aqua-Hot Heating Systems Warranty Administrator at 1-800-685-4298 (8:00 AM to 5:00 PM Mountain Standard Time) or visit www.aqua-hot.com.
This manual should be maintained in legible condition and kept in a safe, easily accessible place for future reference.

Please read the complete Owner’s Manual prior to operating the Aqua-Hot Hydronic Heating System.

The Aqua-Hot Heating System is a Hydronic Heating System that provides interior zone heating where and when it is needed, as well as a continuous, on-demand supply of domestic hot water. Both heating features are accomplished by a 12 Volt-DC powered diesel-burner and a 120 Volt-AC powered electric heating element, which maintains the temperature of the Aqua-Hot’s antifreeze and water heating solution.

Both the Aqua-Hot 450-DE and 450-DM heaters include a motoraid feature, which uses the circulation of the motorhome’s engine to transport the antifreeze and water heating solution from the Aqua-Hot’s boiler tank to the motorhome’s warm engine and back to the boiler tank. Through this process, the boiler tank is kept heated, which reduces the time required to bring the tank to operating temperature.

The Aqua-Hot 450-DE also includes an engine preheat feature. This preheat feature provides an easy engine start-up whenever cool weather conditions are present. Be sure to reference Figures 1 through 4 for a complete component overview.

NOTE: This Aqua-Hot product utilizes a propylene glycol based antifreeze and water heating solution. This Propylene glycol based solution is a boiler type antifreeze that is “Generally Recognized as Safe” (GRAS) by the FDA. For additional information regarding this “GRAS” antifreeze product, reference the Appendices, contact the Aqua-Hot Heating Systems Technical Support Department at 1-800-685-4298, or visit the Web site www.aqua-hot.com.

Danger, Warning, Caution, and Note Boxes:

DANGER!

Indicates that personal injury is likely or imminent.

WARNING!

Indicates that serious damage to the heater will occur and personal injury is possible as well.

CAUTION:

Indicates that damage to the heater is possible.

NOTE: Indicates information that requires special attention by the operator.
INTRODUCTION

For installation only in a compartment that is completely closed from living quarters and accessible only from the outdoor.

The Exhaust System MUST NOT terminate beneath the vehicle or under an openable window or skylight. Use a 20-Amp fuse for over-current protection for the DC power supply. Use a circuit breaker that cuts power at 120 VAC maximum for over-current protection for the 120 VAC power supply. Use a 20-Amp fuse for over-current protection for the DC power supply. Use a circuit breaker that cuts power at 120 VAC maximum for over-current protection for the 120 VAC power supply.

Install in strict compliance with local codes, NFPA 1192, and the manufacturer's instructions.

Figure 1

Figure 2

OPERATING INSTRUCTIONS

WARNING!
The Aqua-Hot’s Exhaust is HOT!

DO NOT park in areas where dry conditions exist under-
neath the vehicle, (e.g., in a dry, grassy field) as a fire may
result!

DO NOT operate the Aqua-Hot’s diesel-burner inside an
enclosed building!

The heater must be switched OFF when refueling.

CAUTION:

DO NOT operate the diesel-burner and/or electric heating
element without the antifreeze and water heating solution in
the Aqua-Hot's boiler tank. Failure to do so will cause serious
damage to the heater.

Activating the Aqua-Hot Heating System:

Diesel-Burner:

Turn the diesel-burner switch ON. Reference Figure 5. This
procedure will activate the diesel-burner and the indicator light
located on the diesel-burner switch. Allow 10-20 minutes for
the Aqua-Hot System to reach operating temperature. Please
note that the diesel-burner is the primary heat source for heat-
ing both the interior and the domestic hot water (such as when
cool ambient temperatures exist and/or when there is a high
demand for domestic hot water).

Electric Heating Element:

Turn the electric element switch ON. Reference Figure 5. This
procedure will activate the 120 Volt-AC electric heating element
and the indicator light located on the electric element switch.
Allow 1-2 hours for the Aqua-Hot System to reach operating
temperature.

NOTE: The motorhome must be connected to shore power, or
the generator must be running, in order to activate the
electric heating element.

The electric heating element is a secondary heat source for
heating both the interior and the domestic hot water during
low heating demand situations (such as when moderate ambi-
etent temperatures exist and/or when there is a low demand for
domestic hot water).

NOTE: Both the diesel-burner and the electric heating element
are thermostatically controlled. Either, or both, heating
sources will automatically maintain the temperature of the Aqua-Hot’s antifreeze and water heating solu-
tion between approximately 160°F and 190°F (±5). Therefore, to heat the motorhome/domestic hot water,
simply choose the desired heat source(s) and leave the
switch(es) (i.e., diesel-burner and/or electric element) ON.

Zone Thermostat Operation

Interior Room Thermostat:

Simply adjust each interior room thermostat to the desired
temperature. Then, whenever an interior room thermostat “calls
for heat,” the Aqua-Hot’s circulation pump and interior heat
exchanger fans will be activated. These devices, together, will
supply warmth and comfort to each interior heating zone. The
Aqua-Hot must be at operating temperature in order for the
zones to function. Please contact the specific motorhome manu-
facturer for the exact location of the interior room thermostats.

Fresh Water Tank Thermostat:

Simply adjust the thermostat for bay heating to a minimum of
40°F. This will prevent freezing of the domestic water storage
system. Please contact the specific motorhome manufacturer for
the exact location of the fresh water tank thermostat.
Using the Domestic Hot Water System

When the Aqua-Hot is at operating temperature, the domestic water is automatically heated as it is being used. Because the Aqua-Hot does not store any hot water, simply open any hot water faucet, and a continuous supply of domestic hot water will be present within a few seconds. This hot water feature is continuous and is accomplished by the Aqua-Hot’s hot water heating system. The diesel-burner switch on the interior switch panel must be ON in order to obtain a continuous supply of hot water (e.g., during showers); be sure to also activate the electric element switch for maximum hot water capacity. Reference Figure 6.

![Figure 6](image)

**Figure 6**

Diesel-Burner switch must be ON to obtain a continuous supply of hot water.

Activate the electric element switch for maximum hot water capacity.

**NOTE:** The Aqua-Hot’s “Domestic Water Priority System” disables the interior zone heating fans and the zone circulation pumps whenever domestic hot water is being used on a continuous basis (e.g., during showers). Once the demand for continuous domestic hot water ceases, the Aqua-Hot will enable the fans and the pumps to operate and provide heat to the heating zones.
Aqua-Hot Operational Flow-Chart

Heat source is selected from the Interior Switch Panel.

Diesel-Burner is activated by the Diesel-Burner switch.

Electric Heating Element is activated by the Electric Element switch.

The Boiler Tank heats the antifreeze and water heating solution to 190°F.

Heating Zone Thermostat calls for heat.

“Engine Preheat” switch on the Interior Switch Panel is activated. (450-DE ONLY)

A hot water faucet (e.g., kitchen sink, shower, etc.) is opened.

The cooled antifreeze and water heating solution is returned to the Boiler Tank to be reheated.

The engine’s coolant is circulated through the Aqua-Hot’s internal Engine Preheat System, where the heat from the Boiler Tank is transferred to the engine’s coolant.

Continuous hot water is supplied to the faucet.

The heated antifreeze and water heating solution flows through the Hydronic Heating System transferring heat to the heat exchanger, which is, in turn, transferred to the surrounding zone.

The antifreeze and water heating solution within the Boiler Tank is reheated, as needed, and continues warming the engine’s coolant as it circulates through the Aqua-Hot’s internal Engine Preheat System.
Annual Maintenance:

To keep the Aqua-Hot running smoothly, it is ideal to have the diesel-burner tuned-up annually. A tune-up should consist of a new fuel nozzle and fuel filter. Reference Figure 9. To ensure maximum diesel-burner performance, always use the recommended fuel nozzle and fuel filter when replacing these parts. Reference the Aqua-Hot’s service and parts manual for spare parts information and detailed replacement instructions. Contact the Aqua-Hot Heating Systems Technical Support Department at 1-800-685-4298 for assistance or to locate the nearest Aqua-Hot Service Center or visit the web site at www.aqua-hot.com.

Maintenance Schedule

Monthly Maintenance:

Check the Aqua-Hot’s antifreeze and water heating solution to ensure that it is at the proper level. This can be accomplished by visually checking the coolant level in the Aqua-Hot’s expansion tank. Reference Figure 7. Please note that the coolant level should be checked only when the Aqua-Hot is at maximum operating temperature (i.e., immediately after the diesel-burner cycles OFF). When the Aqua-Hot is at maximum operating temperature, the antifreeze and water heating solution should be at the level marked “HOT” on the expansion tank.

Replenishing the Antifreeze and Water Heating Solution:

If the antifreeze and water heating solution needs replenishing, remove the expansion tank’s cap and fill the expansion tank to the “HOT” level mark. When refilling, open the air release valve located on the expansion tank connection to release air pockets. Reference Figure 8. Hold the valve open until all air is released. If necessary, refill the expansion tank again. Be sure the valve is closed when finished by hand-tightening. Reference Appendices A through C to determine the correct ratio of antifreeze to water, the proper type of antifreeze, and the water quality recommendations for the Aqua-Hot Hydronic Heating System’s antifreeze and water heating solution.

NOTE: For additional information regarding this propylene glycol-based, boiler-type antifreeze that has been “Generally Recognized As Safe” by the FDA, please reference the Appendices, contact the Aqua-Hot Heating Systems Technical Support Department at 1-800-685-4298, or visit the Web site at www.aqua-hot.com.

WARNING!

DO NOT operate the diesel-burner and/or the electric heating element without the antifreeze and water heating solution in the Aqua-Hot’s boiler tank; doing so will cause serious damage to the heater.

Propylene Glycol that is “Generally Recognized As Safe” by the FDA must be utilized for the antifreeze and water heating solution.

NOTE: When the Aqua-Hot is at maximum operating temperature, the coolant will be very HOT! If the Aqua-Hot’s heating system is accessed, scalding by hot vapor or coolant could result!

Before cleaning or servicing, disconnect all power supplies!
**WARNING!**

Not winterizing the Aqua-Hot when freezing temperatures are present will result in serious damage to the Aqua-Hot's domestic water heating system. Also, be sure to use an FDA approved, “GRAS” rated antifreeze for winterization.

**NOTE:** The Aqua-Hot can continue to be used for interior zone heating once the domestic water heating system has been drained and winterized.

The Aqua-Hot’s domestic water heating system must be completely drained of domestic water any time the heater is stored where freezing temperatures may be experienced.

**Winterizing the Domestic Water Heating System:**

Please follow these instructions when winterizing the Aqua-Hot’s domestic water heating system. Reference Figure 10:

1. Completely drain the fresh water storage tank.
2. Disconnect the domestic water demand pump’s suction line from the fresh water storage tank.
3. Attach an adequate piece of hose onto the suction side of the domestic water demand pump.
4. Place the opposite end of the hose into an adequate supply of FDA-approved “GRAS” RV Antifreeze.
5. Open and close all interior and exterior water faucets, one at a time, until only pure RV Antifreeze is present. Perform this procedure for both the hot and cold faucets.
6. Remove the hose and reconnect the domestic water demand pump’s suction line to the fresh water storage tank.

**De-Winterizing the Domestic Water Heating System:**

For de-winterization, completely fill the fresh water storage tank. Open and close all interior and exterior water faucets, one at a time, until only clear water is present/visible. Reference Figure 10.

If disinfecting the potable water system after de-winterizing, be sure to follow RVIA’s “Instructions for Disinfection of Potable Water Systems on Recreation Vehicles.” These instructions can be obtained by contacting the Recreational Vehicle Industry Association at (703) 620-6003, visiting them online at [www.rvia.com](http://www.rvia.com), or writing to them at the following address:

Recreation Vehicle Industry Association
1896 Preston White Drive
P.O. Box 2999
Reston, VA 20195-0999

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Remove the hose from the fresh water storage tank and attach an adequate piece of hose onto the suction side of the demand pump. Place this hose into a container of RV Antifreeze and allow this to pump through the domestic water system until the faucets run pure antifreeze.

**Figure 10**
**General Information**

Should the Aqua-Hot Hydronic Heating System fail to operate, complete the following checks:

1) Verify that the Aqua-Hot’s access cover is securely installed. The Aqua-Hot Hydronic Heating System will not operate if the access cover is not fully installed.

2) Ensure that the vehicle’s fuel tank contains a sufficient level of fuel. The Aqua-Hot system will not operate if the diesel fuel level is at or below 1/4 tank.

3) Ensure that the Aqua-Hot’s boiler tank has an adequate supply of antifreeze and water heating solution by checking the level at the expansion tank. If the level is low, reference the “Maintenance” section of this manual for refilling instructions.

4) Check the Aqua-Hot’s electronic controller for any RED lights indicating a fault condition.

If the Aqua-Hot Heating System’s failure to operate is not resolved with the above checks, please contact Aqua-Hot Heating Systems Technical Support Department at 1-800-685-4298 for additional assistance or visit the Web site at www.aqua-hot.com.

**Electronic Controller Diagnostic**

**Low Tank-Level Cutoff Indicator Light:**

This indicator light will illuminate RED when either the 120 Volt-AC electric heating element and/or diesel-burner have automatically shut down due to a low antifreeze and water heating solution level inside the Aqua-Hot’s boiler tank. This fault will automatically reset when the low level condition is corrected.

**Low Battery Voltage Fault Indicator Light:**

This indicator light will illuminate RED and the diesel-burner will shut down whenever the 12 Volt-DC voltage level is too low for the Aqua-Hot to operate properly. This fault must be manually reset after the voltage level has been restored to the 12 Volt-DC battery system. Reference the Low Voltage information below.

**Low Voltage Fault Indicator Light and Reset Button:**

The Aqua-Hot’s electronic controller must be manually reset whenever the low battery voltage fault indicator light has been activated. The electronic controller can be reset by turning OFF the diesel-burner switch on the interior switch panel for approximately 30 seconds, then turning the switch back ON.
Troubleshooting

Overload Fault Indicator Light:

This indicator light will illuminate RED whenever one of the following conditions have occurred:

1) The Aqua-Hot is off due to an electrical overload (i.e., short) in the main 12 Volt-DC power supply circuitry.

2) The Aqua-Hot is off due to a combination of high electrical 12 Volt-DC power loads and a high surface temperature of the electronic controller.

The Aqua-Hot will automatically restart once the electrical overload (i.e., short) and/or high-heat condition is corrected.

Heating Zones Status Indicator Lights:

These five indicator lights (separately) will illuminate GREEN whenever a zone thermostat, for each particular zone, is calling for heat. The GREEN indicator lights also indicate that 12 Volt-DC power is being supplied to the particular interior heating zone’s heat exchangers (i.e., fan motors). If any of the five indicator lights illuminate RED, it indicates that an electrical overload condition (i.e., short) has occurred in a particular heating zone’s circuitry.

NOTE: The low temp cutoff light must be illuminated and heater must be up to operating temperature.

A short in either a heating zone’s interior room thermostat or a heating zone’s heat exchanger circuit will cause the indicator light to illuminate RED.

Pumps #1, #2, and #3 Indicator Lights:

These indicator lights (separately) will illuminate GREEN whenever a circulation pump is operating. If any of the three indicator lights illuminate RED, it indicates that an electrical overload condition (i.e., short) has occurred in the particular component’s circuitry.

NOTE: Zone circulation pumps #1 and #2 are activated whenever a zone thermostat calls for heat. The #3 boiler tank stir pump is activated whenever the domestic water is being used on a continuous basis or the heater is not up to operating temperature.

Engine Preheat Pump Indicator Light:

This indicator light will illuminate GREEN whenever the engine preheat circulation pump is operating. Please note that this light will only be active if the engine preheat switch is ON in conjunction with either the diesel-burner and/or the electric element switch. If this indicator light illuminates RED, it indicates an electrical overload condition (i.e., short) has occurred in this particular component’s circuitry.

NOTE: The Aqua-Hot must be up to operating temperature and the Low Temp Cutoff Light must be illuminated.

Electric Heating Element Status Indicator Light:

This indicator light will illuminate GREEN whenever the Aqua-Hot’s electric heating element is operating and providing heat to the Aqua-Hot’s boiler tank. Please note that this light will only be active if the electric element switch is in the ON position. If this indicator light illuminates RED, it indicates an electrical overload condition (i.e., short) has occurred in the electric heating element’s 12 Volt-DC powered circuitry.

NOTE: The Aqua-Hot’s VDC/VAC Control Thermostat will automatically activate the diesel-burner and/or the electric heating element only if the diesel-burner and/or electric element switch is in the ON position.
Antifreeze Types
The following information addresses the necessary usage of a propylene glycol based “boiler” type antifreeze in the Aqua-Hot. Propylene glycol is a safer alternative to the more toxic ethylene glycol antifreeze; however, as mandated by IAPMO (International Association of Plumbing and Mechanical Officials), only those propylene glycol based “boiler” type antifreezes deemed “Generally Recognized as Safe” (GRAS) by the FDA should be utilized.

Because of the significant impact various types of antifreeze can have on a hydronic heating system, including the level of safety provided, it has been recognized that there is a need to provide an explanation regarding two additional prominent types of antifreeze/coolant available. The following information should be utilized as an educational means of ensuring that the proper type of propylene glycol based antifreeze is selected:

**RV & Marine Antifreeze:**

These types of propylene glycol based antifreeze products are formulated specifically for “winterizing” applications only. Although RV & Marine antifreeze is often “Generally Recognized as Safe” by the FDA, it should never be used in the Aqua-Hot’s Hydronic Heating System.

**Automotive Antifreeze/Coolant:**

These types of propylene glycol based antifreeze products are formulated specifically to protect automotive engines against corrosion, freezing temperatures, and overheating. They also have excellent heat transfer and thermal conductivity characteristics. Although these types of antifreeze products are considered less toxic and safer than ethylene glycol for people, pets, and the environment, they are not “Generally Recognized as Safe” (GRAS) rated by the FDA. Therefore, they must be marked with a “harmful if swallowed” warning. This additional warning is required because these types of antifreeze products contain high levels of chemical rust inhibitors. Due to their potentially hazardous properties, they should never be used in the Aqua-Hot’s Hydronic Heating System.
Antifreeze Mixture Water Quality Recommendations
APPENDIX B: ANTIFREEZE MIXTURE WATER QUALITY RECOMMENDATIONS

In order to ensure maximum performance and longevity of an Aqua-Hot Heating System's boiler tank and associated components, it has been determined that there is a need to use distilled, de-ionized, or soft water in combination with concentrated propylene glycol for the Aqua-Hot’s antifreeze and water heating solution. Please note that this is only necessary when mixing concentrated propylene glycol antifreeze with water; suppliers of pre-mixed antifreeze are responsible for the use of high-quality (distilled, de-ionized, or soft) water when preparing their antifreeze for sale.

Hard water possesses a high-level of calcium and magnesium ions, which deplete the propylene glycol antifreeze's corrosion inhibitors. This, in turn, causes the antifreeze and water heating solution to begin turning acidic, which can corrode the Aqua-Hot's boiler tank and associated components prematurely. Therefore, concentrated propylene glycol should be diluted with distilled, de-ionized, or soft water which is 80 ppm or less in total hardness. The local water agency should have up-to-date water quality reports which should indicate if the local tap water is within this guideline.
Antifreeze Terms
and Mixture Ratio
APPENDIX C: ANTIFREEZE TERMS AND MIXTURE RATIO

The following information addresses the process of selecting an antifreeze and water mixture ratio that provides adequate freeze, boiling, and rust/anti-corrosive protection. A 50/50 mixture ratio is recommended, which will result in a freeze point of approximately -28°F and a boil point of approximately 222°F.

The following information should be utilized for the purpose of clarifying some terms commonly associated with antifreeze.

**Freeze Point and Burst Point:**

Antifreeze lowers the freezing point of any liquid, to which it has been added, by preventing the formation of ice crystals; however, as the ambient temperature continues to decline, the water in the solution will attempt to attain a solid state. The point in which the water begins to solidify is termed the “Freeze Point.” Although the water in the solution has begun to freeze, producing a “slushy” consistency, the antifreeze in the solution will continue to combat the normal expansion of the solution as it freezes. The point in which the solution can begin to expand, due to colder temperatures, is called the “Burst Point.” Once the solution reaches the burst point, the potential is present for ruptured pipes to exist. The burst point of the antifreeze and water heating solution is dependent upon the brand of propylene glycol employed.

**Boiling Point:**

The Aqua-Hot utilizes the antifreeze and water heating solution as a transportation means for the heat produced from the internal processes. The antifreeze absorbs the heat created until its boiling point is reached; it is at this point that the liquid turns to a gas and is expelled to prevent the heating system from overheating. Each time the boiling point is reached, a loss of efficiency occurs because the heat produced is expelled rather than utilized for the function of the heating system. Therefore, a higher boiling point is desired in order to combat the loss of efficiency, which allows the antifreeze to transport the heat created from the internal process throughout the motorhome where it can be utilized productively rather than dissipating due to its change from a liquid to a gas.

**Rust and Anti-Corrosive Inhibitors:**

Another major function of antifreeze is to provide protection to the internal metal components of the Aqua-Hot Hydronic Heating System from corrosion and rust. Antifreeze is able to perform this function by the addition of rust- and anti-corrosive inhibitors, which are designed specifically to activate in a water solution.

**Summary:**

Antifreeze has three basic functions: freeze protection, boil-over protection, and anti-corrosion and rust protection.

Antifreeze is also primarily responsible for heat transfer; however, antifreeze itself does not possess acceptable heat transfer characteristics. Therefore, as water is an excellent heat conductor, it is added to the mixture. A 50/50 solution of propylene glycol antifreeze and water is recommended to provide the best performance combination of the aforementioned functions. If excess propylene glycol exists within an antifreeze and water heating solution, the water’s heat absorption properties are compromised, which could ultimately inhibit the Aqua-Hot from providing adequate domestic hot water and interior heating.

Additionally, if the antifreeze and water heating solution contains over 70 percent antifreeze, the freezing point is actually raised, resulting in less freeze protection. Please reference the attached graphical representation regarding the percentage of antifreeze to water and how it directly affects the solution’s freezing point.
APPENDIX C: ANTIFREEZE TERMS AND MIXTURE RATIO

Percentage of Propylene Glycol in Solution

Freezing Point Temperature
(In Degrees Fahrenheit)
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(Continued)
Over the years of running a mobile RV repair service, having a dedicated place to access service manuals for all the different appliances and components found on RVs was something that I always had a desire to create.

I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!

All service manuals provided on www.myrvworks.com are believed to be released for distribution and/or in the public domain.