

MODELS:

DC000A(R)

DC055A(R)

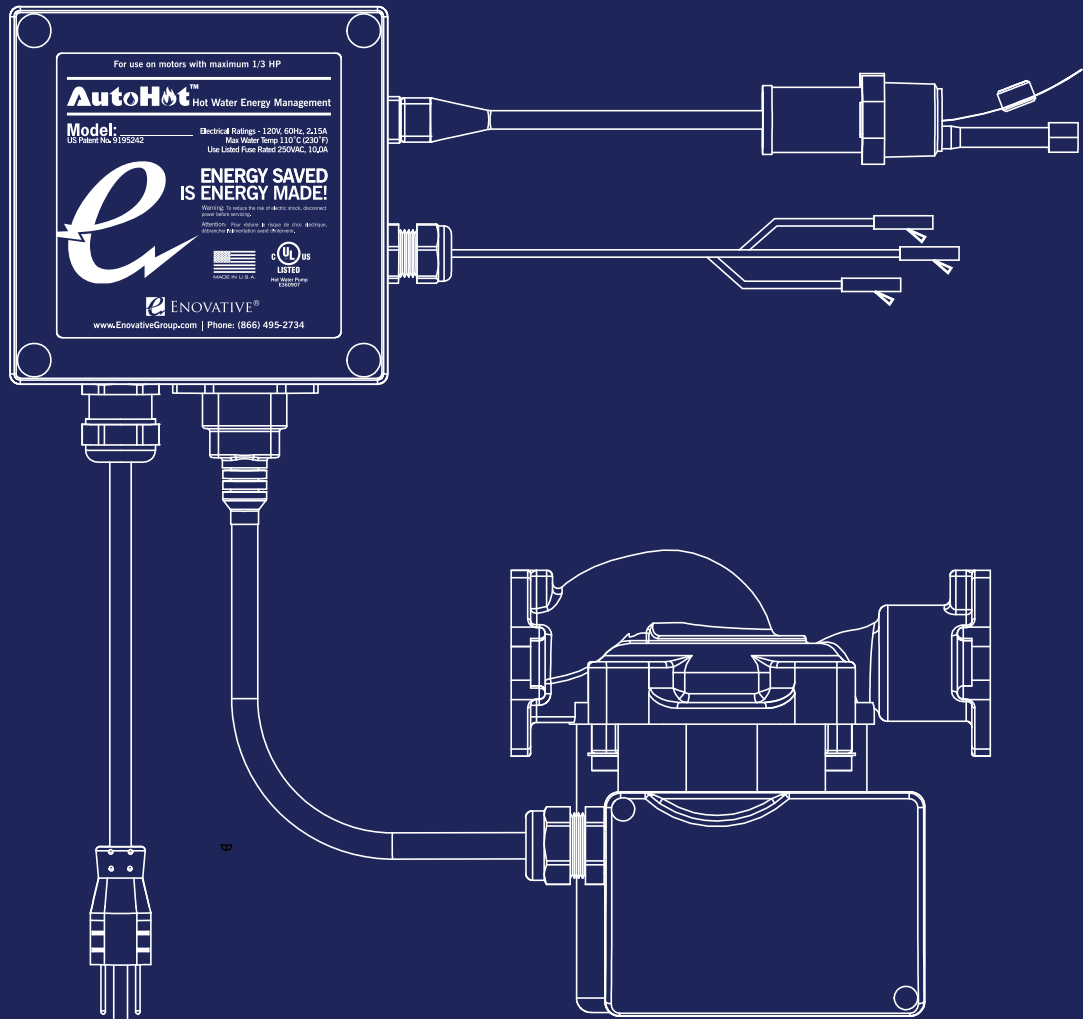
DC099A(R)

DC150A(R)



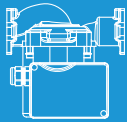
DEMAND RECIRCULATION AND HOT WATER ENERGY MANAGEMENT SYSTEM

INSTALLATION, OPERATIONS, AND MAINTENANCE MANUAL



US Patent No. 9195242





Pump*

*May not include pump, pump included in specific models



2x O-Rings*

*May not include O-Rings, O-Rings included in specific models



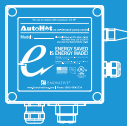
Insulation Tape

(used to secure temperature sensor to return line, upstream from the pump)



Zip Tie

(used to secure insulation tape around temp sensor)



Control Box



Flow Sensor

Parts not included: Splitter Cable for flow switch, flanges, outlet (box, cover, etc.), Screws

Limited Warranty

Enovative Group, Inc. will replace without charge, at the company's option, any AutoHot® system, or component which is proven defective under normal use within five years from date of purchase. Labor is not included with Enovative, Inc. Limited warranty.

In order to obtain services under this warranty, it is the responsibility of the purchaser to promptly notify the Company in writing and promptly deliver the item in question to Enovative Group, Inc., 242 Hampton Drive, Venice CA 90291. If product or part in question contains no defect as covered in this warranty, the purchaser will be billed for the parts and labor charges in effect at the time of factory examination and repair.

Any product or part not installed or operated in conformity with instructions or which has been subject to misuse, misapplication, the addition of petroleum based fluids or certain chemical additives to the system, or other abuse, will not be covered by this warranty. Enovative Group, Inc. is not responsible for any pre-existing condition of the components or system which the AutoHot™ system is installed or attached to.

Enovative Group, Inc. OFFERS THIS WARRANTY IN LIEU OF ALL OTHER WARRANTIES. ANY WARRANTY IMPLIED BY LAW INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS IS IN EFFECT ONLY FOR THE DURATION OF THE EXPRESS WARRANTY SET FORTH ABOVE.

THE ABOVE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR STATUTORY, OR ANY OTHER WARRANTY OBLIGATION ON THE PART OF ENOVATIVE GROUP, INC.

ENOVATIVE GROUP, INC. WILL NOT BE LIABLE FOR ANY SPECIAL INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF ITS PRODUCTS OR ANY INCIDENTAL COSTS OF REMOVING OR REPLACING DEFECTIVE PRODUCTS.

This warranty gives you specific rights, and you may have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty lasts or on the exclusion of incidental or consequential damages, so those limitations or exclusions may not apply to you.



Water Heater



Boiler

Tee



1

Install Tee On The Cold Water Inlet

IMPORTANT:



If there are multiple water heaters or boilers, make sure the tee is before the pipes split

- Tee should be installed on a horizontal pipe on the cold water inlet to the water heating System.
- For a boiler system, it should be installed on the cold water before it tees into the boiler loop.
- Optionally the tee can be installed on the hot water supply to the building.



2 Screw in Flow Sensor (flow switch)



- Hand - tighten flow switch, then use wrench to turn by one additional turn.
- Arrows on the top of the flow switch should be pointed in the direction of flow.



Arrow

IMPORTANT:



- Make sure the tee is cool to the touch before screwing in the plastic sensor
- Make sure the arrows on the tee are pointed in the direction of water flow
- Avoid touching or mishandling flow switch paddle, as it may affect calibration.



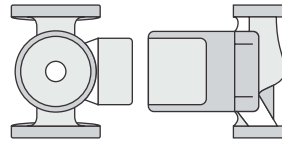
3 Install the Pump on the return line



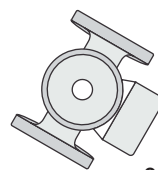
* skip this step if you already have an existing pump installed



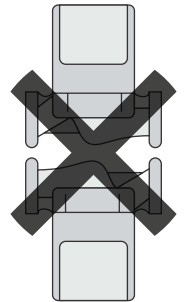
- Insert the included O-rings into the grooves on the pump flange
- Bolt in the pump, with the arrow on the volute pointing in the direction of flow



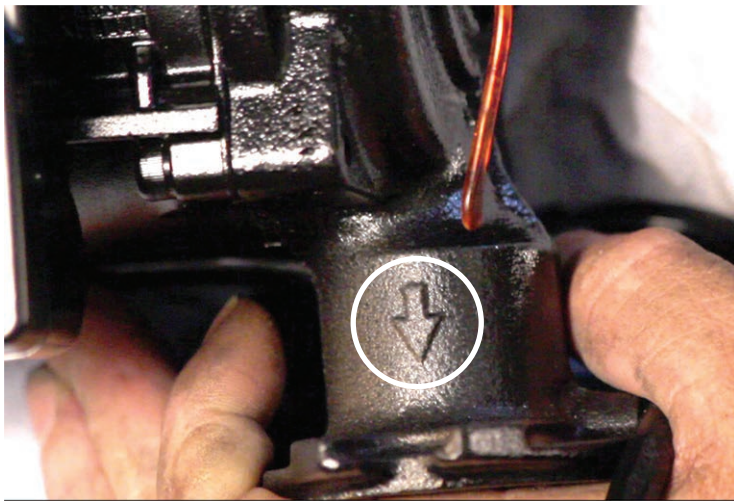
Recommended



Optional



DO NOT Mount Motor Shaft in Vertical Position



IMPORTANT:

Make sure to prime the pump and bleed out any air



4 Re-Pressurize the system (slowly)



- Re-Open the valves just enough to hear water flow, wait until the system is pressurized before opening the valves fully
- Check for leaks on the pump and flow switch
- Check for split loops, important for step 6

IMPORTANT:

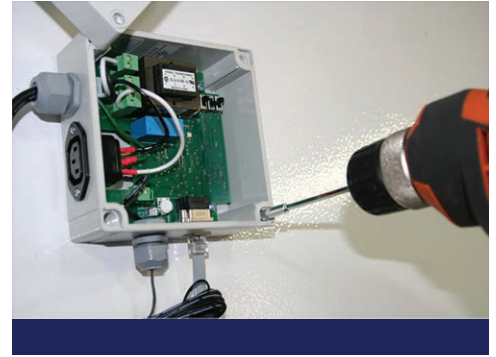


Do not damage the flow switch, by allowing too much flow when opening the valves for the first time

5 Mount the AutoHot™ Control Box

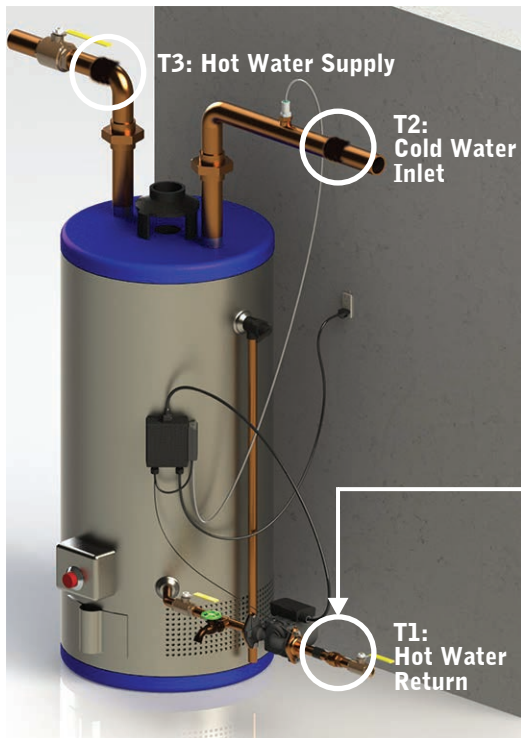
AutoHot can be mounted to a nearby surface using screws.

- Unscrew Lid (do not use power drill because it may strip the plastic lid screws)
- Use the same holes as the lid screws to mount the box (make sure the wall screw head fits in the hole, and make sure you have a drill but that is long and skinny enough to go all the way in)
- Drill into wall

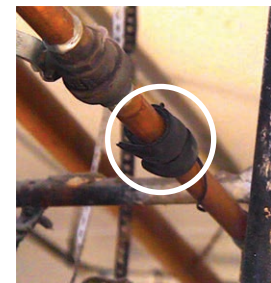


IMPORTANT:

Make sure the location where you mount the box is reachable for all the sensors, cables, and power



6 Attach each labeled temp sensor to the corresponding pipe

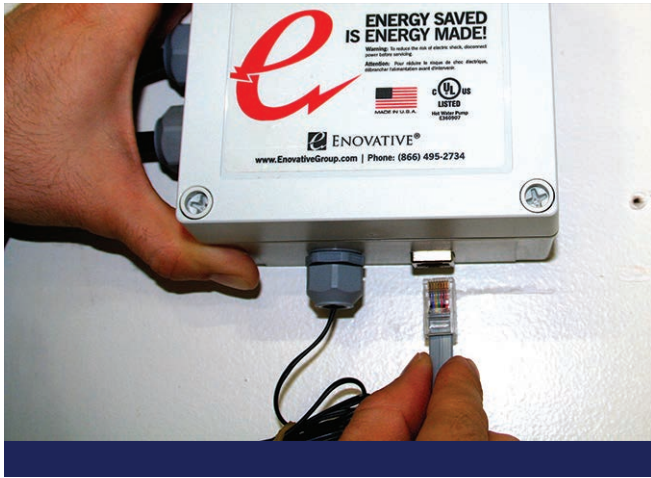


Use the included insulation tape to attach the temperature sensor, concave side towards the pipe, on the return line as far upstream of the pump as the wire length and available return line permit



IMPORTANT:

If there are multiple loops, the sensor needs to be attached on the side that takes longer to heat up



7 Connect all components & organize wires



7A Plug the Flow sensor (flow switch) into the bottom of the **AutoHot**® Control Box

7B Plug the pump into the power adapter (if your pump is hardwired, add a power cord)



8 Plug in system & Finishing Installation



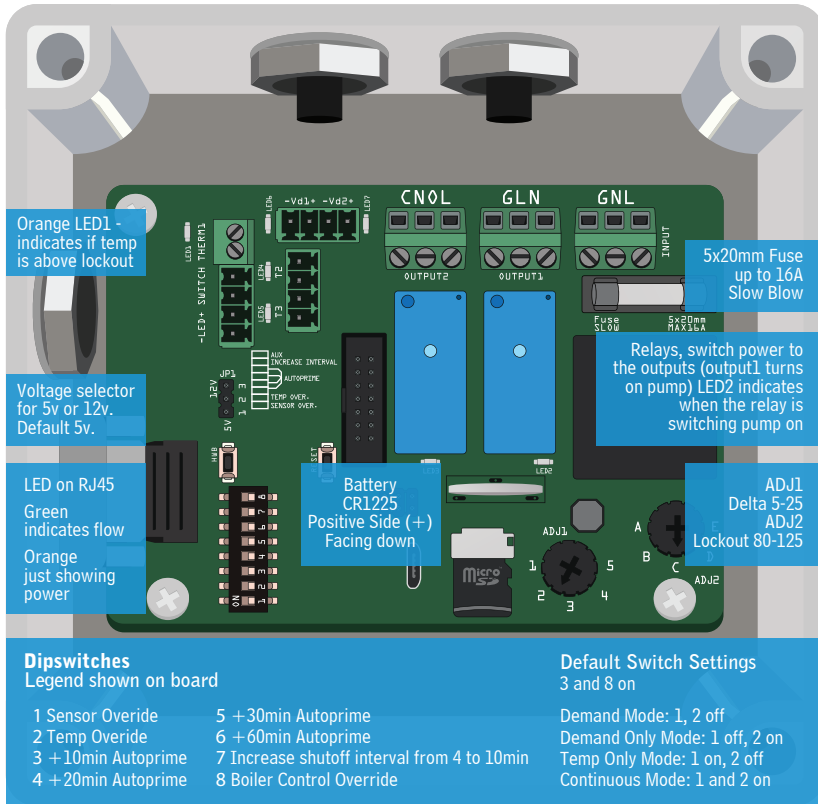
- The pump may turn on and may turn off very quickly if the return line is already hot
 - Check that any valve that has been closed is re-opened slowly
 - Check for leaks
 - Make sure the system is functioning and that there is no air in the lines
- Leave the system on demand mode (see next page for settings)



IMPORTANT:

Don't leave the site without the return line feeling hot

AutoHot® OPERATING INSTRUCTION



Temperature Adjustments

ADJ1	ADJ2
Range 5°-25°F	Range 80°-125°F
1 = 5° ΔT	A = 80°
2 = 6° ΔT	B = 83°
3 = 15° ΔT	C = 100°
4 = 24° ΔT	D = 120°
5 = 25° ΔT	E = 125°

* Temperature differential can be disabled so the pump only turns off on a temperature setpoint, to do this, turn ADJ1 counterclockwise until it stops (past 5)

BYPASSING AutoHot®

If there is a hot water problem, bypassing the AutoHot® system may help determine whether the AutoHot® system needs to be adjusted or if the problem is caused by something else.



1. Unplug the recirculation pump from the AutoHot®



2. Take the power cable from the recirculation pump and plug it directly into the power outlet

If you decide to run the pump in any mode other than Demand Mode, please call us at (866) 495-2734 so that we can record the problem you are experiencing. It is likely that our technical support team will quickly be able to troubleshoot the problem and provide you with a solution to get back on Demand Mode so that you can continue to save energy

AutoHot®



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