



## Owner's Manual

Congratulations on your purchase! Xtreme Heaters have been designed by boaters for boaters and are quality engineered products to help you get the most use out of your boat. Careful attention to these Installation Instructions will assure trouble free operation and maximum performance from your Xtreme Heater.

**CAUTION:** Read and follow these instructions carefully when performing installation. DO NOT deviate from the installation instructions. Incorrect installation could cause an electrical short or other hazard.

### Introduction to your Xtreme Heater

Your 300/450/600 watt, forced-air, temperature regulated, electrical heater is designed to provide a reliable heating source for your marine engine compartment when installed and operated in accordance with the manufacturer's specifications. It has been carefully designed for ease of installation and maintenance free operation for years to come.

The heater is factory calibrated to operate when the engine compartment temperature falls below 40° F (approximately), and to continue operating until an ambient temperature of 52° F (approximately) has been attained. By operating within this temperature range, extreme cold conditions are avoided.

All heaters are **sealed** as there are no user serviceable components. Please do not attempt to open or alter your heater as this will void your warranty. Contact the manufacturer for any servicing required.

### Installing your Xtreme Heater

By examining your engine compartment, you can determine a suitable location to mount your heater keeping certain considerations in mind. The unit should be mounted on metal, fiberglass, or a marine rated wood surface in the engine compartment. The heater can be mounted at any angle (i.e. sideways, upside down, etc.) The heater should be located in an area free and clear of loose material or moving parts that could come in contact with the heater.

You should allow a minimum 12 inch clearance from the vents (intake and exhaust) to the closest object. The heater should be positioned close to the outdrive, for stern drive boats this would be towards the rear of the boat, airflow going towards the stern drive, for a V drive boat it would be towards the front of the engine compartment. The heater should not be mounted close to the bilge vents where it would be drawing in cold air.

The heater comes supplied with screws for the typical installation; however, care must be taken so that screws do not penetrate any tanks or other vital boat components. You must know what is behind the mounting surface so that screws are assured proper clearance.

There should be no electrical cords or other obstruction directly under or around the heater to allow air to circulate under and around the heater. The power cord should be run to an outlet that provides a minimum 15 AMP 120 Volt circuit and is equipped with a slow blow fuse or circuit breaker. We recommend that you consult a certified professional for help. **The power connection must be external to the engine compartment** and in accordance with generally accepted industry standards such as ABYS, NEC, NFPA and US Coastguard. ***Breaker equipped models have accessible reset buttons that should be pressed in to reset after they have been tripped.*** Be sure to mount your heater and route the power cord above the water line of the boat so a short circuit condition can be avoided. Do not mount on gas tanks or water tanks. The heater should not contact any flammable substances. NOTE: Some marina rules, local codes/ordinances, etc. will apply to your installation, please be sure that any additional laws and requirements are followed when installing your Xtreme Heater.

## Installation examples, DOs and DON'Ts :

- DO** mount heater where the inlet and outlet vents are not obstructed and heat is directed towards the outdrive(s) or motor(s).



**DO**



**DO**

- DON'T** mount the heater to any tanks (water, gas, holding, etc), or any equipment such as the air conditioner, water heater, or generator. **DON'T** mount the heater on or near any moving parts.



**DON'T**



**DON'T**



**DON'T**



**DON'T**

## Testing your Xtreme Heater

In order to test your Xtreme Heater you will need to buy a can of freeze spray or other type of Freon based aerosol sprays commonly found at consumer electrical stores (for electrical testing) and custodial supply stores (for gum removal). There is a test port labeled on your heater where the thermostat control is located. By spraying this test port sparingly with freeze spray, you can simulate the low temperature condition that will turn the heater on. The fan should start instantly and heat can typically be felt within a few seconds. The manufacturer recommends testing your heater periodically to insure operation and at the start of each cold season.



### Additional Information and Specifications for your Xtreme Heater :

- Maximum current consumption @ 115 VAC is 15A
- All parts are UL, CSA, and VDE approved built within a plant that is ISO 9001 or ISO9002 certified
- Xtreme Heaters all have a robust construction utilizing an anodized aluminum extruded casing and a high temperature plastic molding coupled to a high quality fan. The heating element was specifically designed for Xtreme Heaters to provide redundant failsafe protection against overheating. All products have a built-in electrically resetting safety circuit and a regulator to ensure tight operating tolerances in regards to temperature.

Email or call for assistance: [help@xtremeheaters.com](mailto:help@xtremeheaters.com) or (404) 435-HEAT

## **IMPORTANT "TIPS" REGARDING THE OPERATION OF YOUR NEW Xtreme Heaters MARINE ENGINE COMPARTMENT HEATER**

HINT: Your Xtreme Heater will operate more efficiently when you have covers over the bilge blower vents on your boat. The best method we have found is to have a canvas shop, or an upholstery shop, make a set of simple, inexpensive "snap-on" covers to fit over the vents. When you are ready to use the boat, simply remove the vent covers. When you leave the boat, snap the covers back on. This will keep the cold, damp winter wind out of the engine compartment, and keep the heat in. Without the vents being covered, you will be allowing valuable heat to escape to the outside which could prevent the heater from performing to its full potential. During testing we found this helps temperature rise faster and keep the heat in an average of 40% longer so heater runs less and saves you money.



HINT: A boat on a lift will get much colder than a boat in the water. If you store your boat suspended on a lift, in addition to covering your bilge blower vents, you should also cover the outdrive unit. This can be accomplished with a custom made canvas cover that snaps, or Velcro's, shut at the top.

You can also use a heavy mil plastic to slip up over the outdrive unit and or exhaust ports and tie it at the top. This will prevent the heat in the engine compartment from being lost by dissipation through the metal of the outdrive unit. An outdrive in the down position will drain any water it may have inside. Covering the entire boat helps keep Mother Nature out.



The instructions and recommendations in this manual do not override the factory's recommendations for winterizing water systems on your boat. Please follow the recommended guidelines from the manufacturer of the boat.