

Owner's Manual

Twin Hornet 45 & 66
TH-500W, TH-750W, & TH-1000W
DUAL COMPONENT DESIGN
Twice the protection at a competitive price

Hornet 43, 45 & 66
SINGLE COMPONENT DESIGN

**INTRINSICALLY SAFE
WATERPROOF
FIREPROOF**



Engineered to SAFELY heat high value assets

Congratulations

You have chosen one of the safest and most reliable heaters in the world. Hornet Heaters are certified to operate in locations where flammable vapors may be present. All Hornet Heaters are certified to meet ISO 8846, SAE J1171, ABYC E11, to the US Coast Guard standards. It is IPX7 certified, making it the only waterproof bilge heater on the market. The Twin Hornet is built with two of each operational components and the Hornet model has one of each component. They both will deliver years of trouble-free performance.

Operating Instructions

To operate the heater, plug into an electrical outlet and place in an area where heat is desired. The illumination of the light at the male end of the plug indicates the heater is receiving power and is ready to heat once the temperature falls below 40°F for boat heaters or 55°F for aircraft. There is a +/- 3 degree allowance for the on/off temperatures. To prevent the possibility of the heater accidentally being turned off, there are no switches or knobs. Twin Hornets are equipped with two independent thermostats, heating modules, and fans. This greatly increases the reliability of the heater and eliminates the *single point of failure* found in every other heater manufactured. The thermostats are hermetically sealed and non-adjustable. When the ambient temperature reaches the thermostat set point, the heater will automatically turn on and will not turn off until the pre-set temperature is reached. Please allow ONE FULL HOUR for the heater to acclimate when being relocated from a warm environment to a cold one (i.e. going from a garage to a boat). The heater's large mass requires considerable time to cool sufficiently enough to activate the thermostat. The thermostats do not come in contact with the aluminum housing so false readings that are common in other heaters cannot occur with ours.

H.A.L.T.

HIGH AIRFLOW LOW TEMPERATURE

Our heaters utilize PATENTED, solid state, stainless steel, self-temperature regulating heating modules that contain a space-age material that automatically increases its electrical resistance with temperature. They can never overheat, ever! The H.A.L.T design allows for very low surface temperature heating modules that deliver unprecedented safety and peace of mind for heating high value assets. Because the surface temperature of the heating element never reaches a temperature high enough to ignite fuel vapors (or any other combustible materials), the possibility of a fire is virtually eliminated. Consider this: a heater that delivers 10 CFM @ 300° temperature rise will produce exactly the same heat as a heater that delivers 50 CFM @ 60° temperature rise; however, the heater that only raises the temperature 60° will operate at a much lower and safer temperature.

Maintenance

All components are sealed, so there is nothing to oil, lubricate or clean. To maximize the life of the heater, we recommend that it be removed from the bilge when the boat is in use. This will eliminate the problems that may be caused by debris, water, or other contaminants entering the heater.

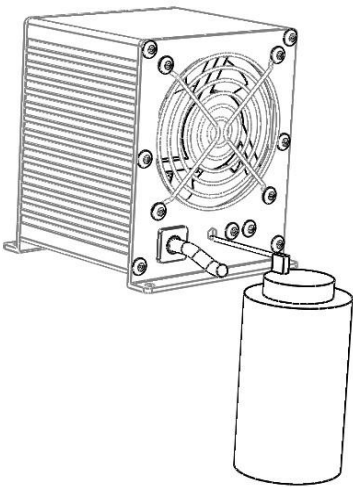
Maximizing Performance

The engine compartment has several fresh air intakes that should be temporarily closed off to avoid the loss of heat. It is *VERY IMPORTANT* to remove these covers before returning the boat to service. A heavy insulated blanket or moving blanket may also be placed over the engine, with the heater placed inside this cavity to reduce electrical consumption, as well as the size of the area requiring heat.

Testing Methods

Freezer Method- (Preferred)

Place the entire unit in the freezer. DO NOT LEAVE PLUGGED IN. Allow ONE HOUR for the unit to completely acclimate. Remove from the freezer and plug in. The heater should run for a minute or two and then turn off.



Freeze Spray Method

Ensure the heater is plugged in and the light at the end of the cord is illuminated. The heater is equipped with either one or two hexagon shaped testing ports that are located to the right of the cord when the heater is positioned as shown. Purchase a can of dusting spray from your local Walmart. Place the spray nozzle about 1/2" outside the small hole and spray a very short blast (1 second) of freeze spray (**the can must be held upside down**). Wait about 30 seconds for the heater to turn on. Repeat if necessary. Please do not spray long continuous blasts of the freeze spray as it may damage the thermostat. If your heater has two ports, each testing port may be tested.

Mounting Instructions

The heater may be permanently mounted or simply placed in bilge. Most heaters do not require mounting, but if the boat will be used intermittently during the winter, the heater should be removed or permanently mounted. The heater may be mounted in any position. Use CUSTOMER supplied bolts, screws, rivets, or any other suitable means. Take care not to screw through the bottom of the boat. Although the heater is waterproof, we recommend that it be mounted in an area that remains dry, as this will keep the debris out of the fans and prolong the life of the heater. For specifications visit HornetHeaters.com and click the *Details* tab on the home page, then click *SPECIFICATIONS*, scroll to find your model.

Warranty

What is covered and how long is it covered?

For a period of 5 years from the date purchased, DesignStein LLC warrants this product to be free from defects in manufacturing, materials, and workmanship. We will repair or replace at our discretion any defective part.

What is not covered: Tampering (removal of rivets, etc.) COMPLETELY VOIDS THE WARRANTY.

This warranty does not cover defects resulting from misuse or connections to improper voltage, alterations, or modifications. The warranty is void if the label bearing the serial number has been removed or defaced. **What we will do:** During the warranty period, we will, at our sole discretion, repair or replace (using new or refurbished replacement parts) any defective part or parts free of charge. We will pay shipping both ways if the heater fails within the first 90 days of use.

What we will not do: Pay shipping charges after 90 days, or any import fees, duties, and/or taxes.

What you must do to obtain Limited Warranty Service:

Return product with proof of purchase. Registered products will not require proof of purchase. Contact us to receive a Return Authorization Number before shipping. **Other conditions:**

The provisions of this warranty are in lieu of any other warranty, whether expressed or implied, written or oral. There are no warranties of merchantability for a particular purpose. The liability of DesignStein, LLC shall not exceed the actual purchase price paid for the product. In no event shall DesignStein LLC be liable for loss of, damage to or indirect damages to any property or equipment. **Other legal rights:**

This limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state or country to country. Some places do not allow limitations on implied warranties, and the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you.

DesignStein, LLC

1994 Airport Loop

Kerrville, TX 78028

To register your warranty* visit BoatHeaters.com

(*registration is not required, as the heater is covered by a transferable warranty and each heater has a unique serial number)

Email- www.DesignSteinLLC@GMAIL.COM