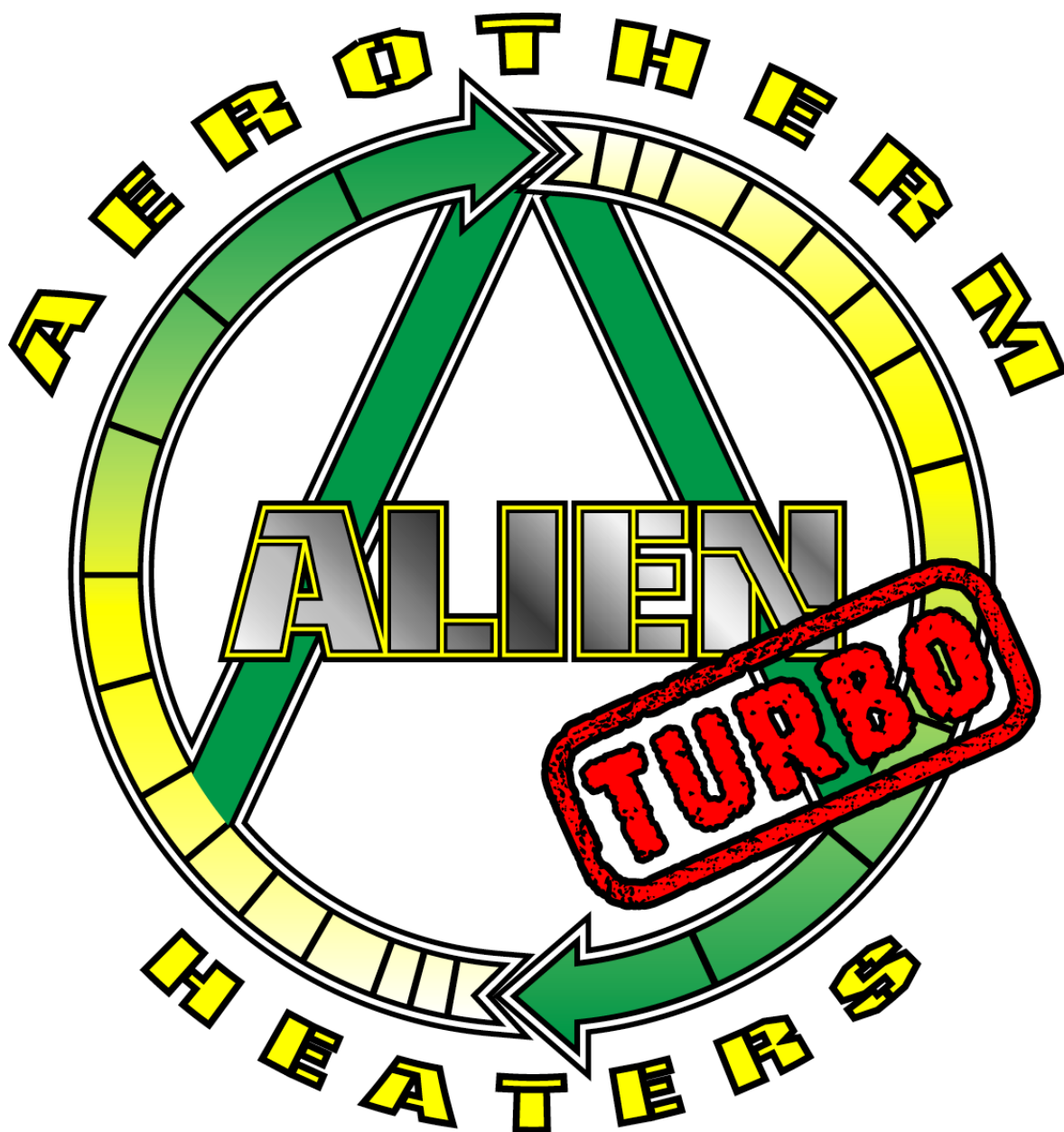




## ALIEN TURBO OWNER'S MANUAL



# **Congratulations on your new AeroTherm Heater!**

The AeroTherm heater is the only high volume hot air electric heater on the market. This unique design creates the same effect as a heated hangar for your engine compartment, reducing wear and tear on your aircraft engine while keeping your preflight time to a minimum.

## **INSTALLING AND OPERATING YOUR AEROTHERM ALIEN TURBO**

You should receive the following items in each shipment. If for any reason you are missing any of these items, please notify us immediately:

- 1- AeroTherm ALIEN TURBO Heater with hoses attached
- 4- sponges
- 1- carrying case

Your ALIEN Heater comes fully assembled and is ready for immediate use.

### **1. Securing the ALIEN Heater to your Aircraft.**

The heating unit is to be hung from the propeller via the convenient hanging strap.

Insert the hoses into the aircraft cowl vents. Use the sponges to seal the engine.



## 2. Operating the ALIEN TURBO.

Once the ALIEN TURBO has been attached to your aircraft, simply select the thermostat setting you would like to use. 60° is the recommended setting for hangar use (see Step 3.)

The thermostat will automatically cycle the heating element on and off once the desired temperature has been reached. The fan will run continuously and draws a mere 35 watts.

- **Modification of the hoses in any way without authorization directly from Aerotherm Heaters will void any warranty and/or liability.**
- **When in use, keep both ends of the hoses clear from any obstructions, do not modify or restrict the airflow in any way, this will cause excessive heat buildup and the element will fail.**
- **If airflow is restricted, the heater's heating element will shut off and the unit will not blow hot air. Once the back-up automatic thermostat cools down the unit will then again blow hot air. To quicken this process you can remove the suck tube from the cowling and draw in cold air from the environment.**
- **Verify that the tubing ends are free from obstructions before allowing your ALIEN TURBO to reset and generate heat.**
- **If using with an extension cord, ensure the cord has a rating for 15amps or higher, we suggest a 12 gauge cord.**
- **On 182 Cessna's, make sure the hose that is blowing the air is not ported into the cowl vent with the oil cooler in it. There is no need to blow hot air in via the lower cowl vents.**
- **When using your AeroTherm heater outdoors on a cold-soaked engine, cover any opening on the engine with a blanket or other mechanism to keep heat from dissipating.**

### **Energy/Efficiency Tips**

When using your AeroTherm heater in a hangar, save energy by setting the thermostat to 60° or less.

**It is not necessary to ever set the thermostat above 70°** as it will shorten the life of your unit due to rapid on/off cycling and will not heat the engine any faster. It may also cause hose discoloration and possibly cause the safety thermal fuse to pop which will disable the heating element. If this happens the unit will have to be sent back to us for repair.

### 3. Recommended Settings

#### TO QUICK START A COLD SOAKED MOTOR

Thermostat: 70° for 0-3 hours

#### FOR CONTINUOUS OR UNATTENDED USE

Thermostat: 60° for 3+ hours of use



**AGAIN-PLEASE NOTE: There is no reason to set the thermostat above 70 degrees!**

Setting thermostat at a higher temperature will not cause the engine compartment to heat any faster. The thermostat is monitoring the temperature of the returning air to the unit. Once the temperature returning to the unit is 70 degrees the motor is also 70 degrees.

We hope you enjoy our product. Thank you for purchasing an AeroTherm Heater.

**AEROTHERM HEATERS**  
PO Box 1240  
Spearfish, SD 57783  
800-401-4397  
[www.aerothermheaters.com](http://www.aerothermheaters.com)



## **WARRANTY INFO**

### **Full Three-Year Warranty on AeroTherm ALIEN TURBO**

**What is covered?** This warranty covers any defects in materials or workmanship in your Aerotherm ALIEN TURBO Heater with exceptions stated below.

**How Long Coverage Lasts?** This warranty runs for Three years from the date of purchase. Coverage terminates if you sell or otherwise transfer the ALIEN TURBO Heater.

**What is not covered?** This warranty does not cover any problem that is caused by abuse, misuse (such as dropping the unit) or an act of God (such as a flood). Also, consequential and incidental damages are not recoverable under this warranty.

**What Aerotherm Heaters Will Do?** Aerotherm will repair any ALIEN TURBO Heater that proves to be defective in materials or workmanship. In the event repair is not possible, Aerotherm will replace your ALIEN TURBO Heater with a new ALIEN TURBO Heater of similar composition and price.

**How Do You Get Service?** In order to be eligible for service under this warranty, **you must return the warranty registration below within 30 days of purchasing the Alien Turbo Heater.**

If something goes wrong with your ALIEN TURBO Heater, call **800-401-4397** for further directions or email us at [rbhill@aerothermheaters.com](mailto:rbhill@aerothermheaters.com).

**How Does State Law Apply?** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**If you have any questions concerning your heater, feel free to call or e-mail us. Our contact information is listed below.**

**We thank you for your business.**

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## **PRODUCT REGISTRATION FORM**

**Name:**

**Date:**

**Address:**

**Telephone: Cell**

**Phone: Email**

**Address:**

**Airplane Type:**

**Product Purchased:**

**Date Purchased:**

**Purchased From:**

Scan and email to [info@aerothermheaters.com](mailto:info@aerothermheaters.com)

**OR**

**Mail to:**  
**AEROTHERM HEATERS**  
**Product Registration**  
**PO Box 1240**  
**Spearfish SD 57783**



## **LIMITS OF LIABILITY**

IT IS HEREBY AGREED THAT SELLER'S LIABILITY AND PURCHASER'S SOLE REMEDY WHETHER IN CONTRACT, UNDER ANY WARRANTY, IN TORT (INCLUDING NEGLIGENCE), IN STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY PURCHASER, AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, DAMAGE TO OR LOSS OF EQUIPMENT, LOST PROFITS OR REVENUE, COSTS OF RENTING REPLACEMENTS, AND OTHER ADDITIONAL EXPENSES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE PRICE STATED FOR THE EQUIPMENT IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY AND PURCHASER'S REMEDY. SELLER WILL NOT BE LIABLE FOR ANY DAMAGES, LOSSES, OR EXPENSE AS A RESULT OF PURCHASER'S NEGLIGENCE, WHETHER DEEMED ACTIVE OR PASSIVE AND WHETHER OR NOT ANY SUCH NEGLIGENCE IS THE SOLE CAUSE OF ANY SUCH DAMAGE, LOSS, OR EXPENSE.