



ALIEN X Turbo OWNER'S MANUAL

AEROTHERM HEATERS



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.

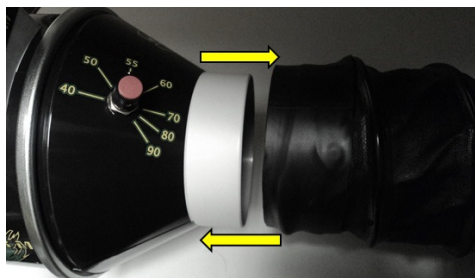
INSTALLING AND OPERATING YOUR AEROTHERM HEATER

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

- *AeroTherm ALIEN X Turbo*
- *Quick Disconnect Hoses*
- *sponges*
- *carrying case*

1. ASSEMBLING YOUR ALIEN X TURBO

- a. You must first remove the hoses from your custom carrying case.
- b. Once you've removed the hoses from the carrying case, slide one hose on to each end of your AeroTherm Alien X Turbo. Your heater is now ready to be secured to your aircraft.



Securing the ALIEN X Turbo Heater to your Aircraft.



- Hang the heating unit from the propeller via the convenient hanging strap.
- Insert the hoses into the aircraft cowl vents. Use the sponges to seal the engine.

3. Operating the ALIEN X Turbo.

Once the ALIEN X 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 4.)

The thermostat will automatically cycle the heating element on and off until the desired temperature has been reached. The fan will run continuously.

Safety precautions

- **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 cowling and draw in cold air from the environment.**
- **Verify that the tubing ends are free from obstructions before allowing your ALIEN to reset and generate heat.**
- **If using with an extension cord, ensure the cord has a rating for 15amps or higher, **we recommend a 10 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 outdoors on a cold-soaked engine, cover any opening to the engine compartment 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 below.

It is not necessary to ever set the thermostat above 70° as it will shorten the life of your unit life 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.

4. 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.

Thank you for purchasing an Aerotherm Heater.

**AEROTHERM HEATERS
PO Box 1240
Spearfish, SD 57783
800-401-4397
www.aerothermheaters.com**



WARRANTY INFO

Full Three-Year Warranty on AeroTherm ALIEN X Turbo

What is covered? This warranty covers any defects in materials or workmanship in your Aerotherm ALIEN 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 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 Heater that proves to be defective in materials or workmanship. In the event repair is not possible, Aerotherm will replace your ALIEN Heater with a new ALIEN 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 Heater.**

If something goes wrong with your ALIEN Heater, call **800-401-4397** for further directions or email us at info@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.

AEROTHERM HEATERS

PO Box 1240

Spearfish, SD 57783

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www.aerothermheaters.com



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

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.