

SunTech Portable Heater

User's Manual

Model STH 1500-01 Chy

Model STH 1500-01 Map

Model STH 1500-01 Oak

Model STH 1500-01 Wal



FOR INDOOR USE ONLY

120VAC 15 AMP DEDICATED CIRCUIT

Carefully and thoroughly read this manual before using the SunTech Portable Heater for the first time. We recommend keeping this manual for regular review and future reference.

Introduction

SunTech Portable Heaters utilize the latest infrared heat technology. SunTech Portable Heaters provide a safe, convenient, clean, and economical way to distribute heat throughout your home or business without producing the deadly fumes or monoxide gases. Our heating system can produce therapeutic infrared heat that can potentially relieve symptoms of cardiovascular conditions and inflammatory diseases. Infrared heat technology, in general, produces rays that are safe and highly beneficial to our bodies and health professionals have been using infrared technology for decades to treat muscle and joint pains.

The SunTech Portable Heaters are constructed of a wood housing. They come in walnut, cherry, oak, and maple finishes. They are equipped with nylon caster wheels for easy mobility. And the highly efficient filter can be maintained and cleaned by simply rinsing with water.

Safety

IMPORTANT INSTRUCTIONS

SAVE THESE INSTRUCTIONS

Electrical safety is essential to keeping your home safe. When using an electrical appliance, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons. Please adhere to the following safety instructions:

- Always read all instructions before operation.
- The heater must be operated by an adult. Keep the heater out of the reach of children.
- Only operate the heater when it is on the floor.
- Do not operate heater near any water.
- Do not plug heater into any other cord connected device such as power strip, surge protector, multiple outlet adapter, grounding adapter, outlet-type air fresheners or extension cords. Plug the heater cord directly into a 3-prong 120V 15 amp grounded circuit receptacle.
- Never plug heater cord into a loose fitting or broken receptacle.
- Never alter the heater's design or operation. Such actions will void warranty.
- Do not operate the heater with a damaged cord or plug.
- Do not operate the heater if there are signs of malfunction. If the heater has been dropped or damaged, do not operate.

- Keep combustible materials such as furniture, pillows and other bedding materials, paper(s), clothing, curtains at least three feet away from all sides of the heater during operation.
- Always unplug heater when not in use.
- Do not use the heater outdoors.
- Do not run cord under carpet. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Route cord away from traffic area.
- Do not use the heater in bathrooms, laundry rooms, or similar indoor locations.
- Turn off heater before unplugging.
- Do not insert any foreign object or allow foreign object to enter the ventilation opening or exhaust opening as this may cause electric shock, fire, and/or injury.
- Never block the air intake or exhaust opening in any manner as this could lead to fire.
- Do not locate heater, when in use, immediately below a receptacle.
- Never operate heater in or around a bathtub, shower, or swimming pool.
- Only open heater if instructed by an authorized representative of the manufacture. There are limited user-serviceable parts inside.
- Use heater only as described in this manual. Any other use is not recommended by the manufacture as it may lead to fire, electric shock, and or series physical injury.

Heater Specifications

SunTech Heater Model STH 1500-01/WI-0035

Carton Size: 18.9 in x 17.3 in x 18.1 in

Heater Size: 16.3 in x 14.8 in x 14.8 in

Net Weight: 28.6 lbs

Gross Weight: 35.2 lbs

Cabinet: ¾ ply – Cherry, Maple, Oak, Walnut

Power Cord: 8 ft / 14 gauge

“HI” Function: 1500 watts

“LOW” Function: 750 watts

Power Requirement: 120V 15 amp

BTU: 5600

Heat Type: Therapeutic Quartz Infrared Heat

Heating Elements: 4 Infrared Quartz Bulbs w/ Nickel-Chrome Filament

Heating Elements Life Expectancy Potential: Rated 20,000 – 30,000 hrs

Thermostat: Electronic Analog

Fan System: Cross Flow Fan

Fan Noise Level: 46 db

Heat Chamber with Diathermanous Copper Plate

Delayed Start Function

Remote Control

Electrostatic Washable Filter

Warranty: Limited 3-yr Parts Warranty

How It Works

In short, room temperature air circulates from the rear of the SunTech Portable Heater, passes through a highly efficient filter and enters a chamber that houses the Infrared Quartz Bulbs, and exits as heated air from the Diathermanous Copper Plate constructed on the front of the unit. And it does all this with a noise level below 46db and can potentially heat up to 1000 square feet.

Components and Functions

- A. The SunTech Portable Heater is constructed with four Infrared Quartz Bulbs. Each Infrared Quartz Bulb rates at 375W. These bulb can produce therapeutic infrared rays that warm the air which passes through the inner chamber. The Infrared Quartz Bulbs are constructed with a stainless steel thermal conducting housing. The incorporated twisted style increases the efficiency of the unit.
- B. An AC Cross Flow Fan pushes air over these Infrared Quartz Bulbs. Cross Flow Fans create a wide flow of air using a cylindrical-shaped impeller. Air is drawn inside the SunTech Portable Heater, flows along the circumference of the chamber and over the Infrared Quartz Bulbs, and is blown out laterally creating a uniform flow of warm air.
- C. The SunTech Portable Heater has a Delay Start Function which controls the AC Cross Flow Fan. The purpose of the Delay Start Function is to allow the Infrared Quartz Bulbs to heat up before the fan begins to circulate the air flow. In addition, the AC Cross Flow Fan will continue to circulate the airflow after the power is turned off to circulate the warm air from the SunTech Portable Heater.
- D. The air flow exits through the front of the SunTech Portable Heater. It travels from the Diathermanous Copper Plate. The Diathermanous Copper Plate is constructed from red copper making it advantageous for efficient thermal conductivity. It is a resourceful material in reflecting the infrared rays.
- E. A LED Digital Display is a convenient, stylish, and modern way to display the temperature and timer. This attractive addition compliments the SunTech Portable Heater, in that, it simplifies and makes controlling the unit easy. Operating the heater is logical and can be done on the unit itself or by remote.
- F. The SunTech Portable Heater was designed with safety features. One such feature is the Overheat Automatic Shutoff that shuts the heater off should heat rise above the prescribed

limit. Another feature is that if for any reason there is a power outage while the heater is operating, the heater will remain off even when the power is restored. These are all safety features incorporated into the design of the SunTech Portable Heater.

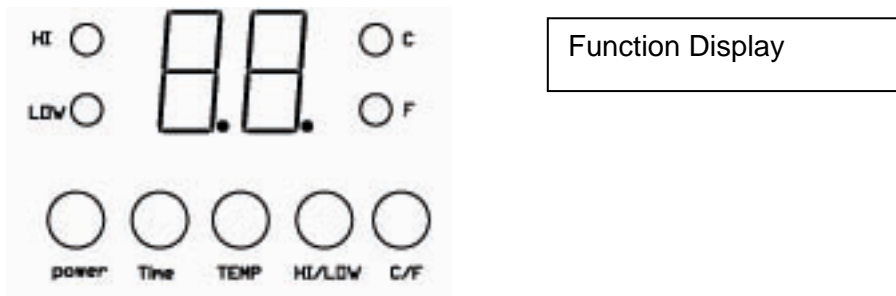
Unpacking the SunTech Portable Heater

1. First, check the carton to make sure there are no obvious damages that may have occurred during shipment.
2. Open the SunTech Portable Heater packaging and remove the heater by sliding it from the box. You may want to gently and cautiously turn the entire box upside down letting the heater slowly slide out.
3. Remove all the protective materials from the heater. It may be a good idea to keep the protective materials and packaging for easy storage during the off-season.

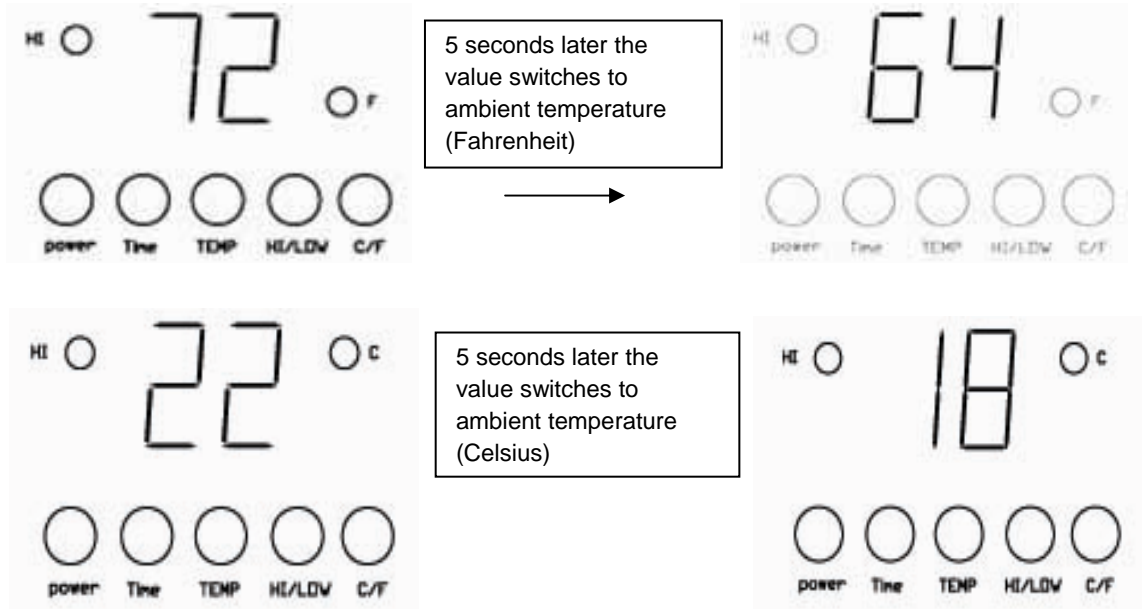
Operating Instructions

Visually inspect the SunTech Portable Heater for any damages before operation. Do not operate the heater if any damages are detected. Contact your dealer immediately.

- 1) Plug the power cord directly into a conventional 120V 15 amp outlet and press the master power button on the rear of the portable heater. Then press the power button on the front control panel. The LED display will show the default value as 72⁰ F.

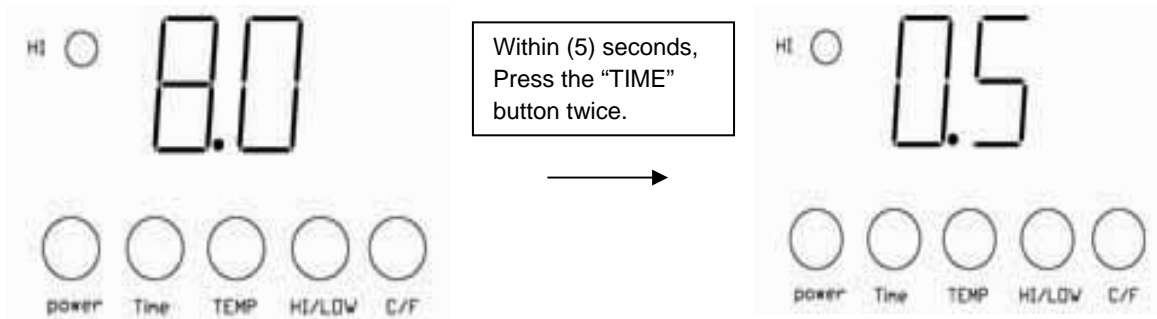


After about (5) seconds, it will switch to the current ambient temperature. (Note: If the current ambient temperature is greater than the set temperature, the HI/LOW fan function will not operate.)

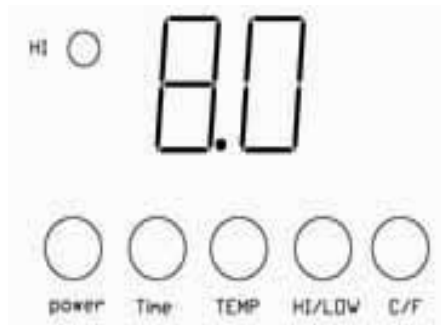
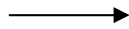


- 2) By pressing the C⁰/F⁰ button, you can switch the temperature format from Celsius to Fahrenheit and vice versa.

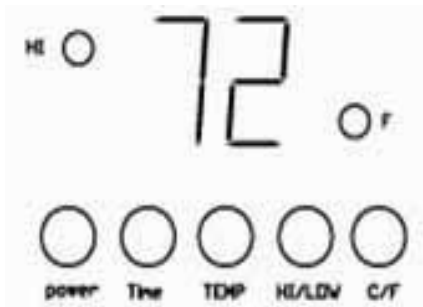
- 3) By pressing the “TIME” button, the LED display will switch from the temperature status to the time status. The default time displayed will be 8.0 Hr. You must press the “TIME” button once again within (5) seconds to set the time. Each time you press the “TIME” button, the time will increase by 0.5 Hr. The maximum value for time is 8.0 Hr. Once you reach 8.0 Hr., the time will return to 0.5 Hr again. By holding down the “Time” button for (2) seconds, the rotation will be quicker. If you do not press the “TIME” button within (5) seconds, the time status will switch back to the temperature status.



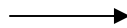
Within (5) seconds,
hold the "TIME"
button and the
rotation from 0.5 Hr to
8.0 Hr will be quicker.



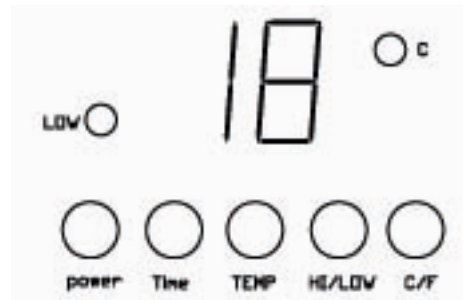
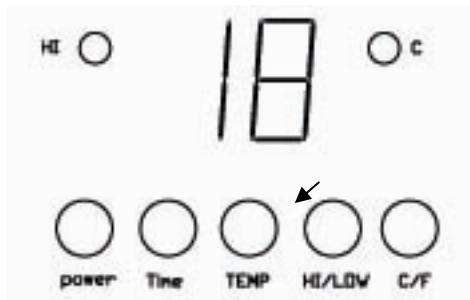
- 4) Again, default temperature displayed on the LED display is 72° F. By pressing the "TEMP" button within (5) seconds from turning the power on, the temperature setting will increase by 1° F. If you hold the "TEMP" button for (2) seconds, the rotation will be quicker. The maximum temperature setting is 85° F (32° C).



Within (5) seconds,
Press the "TEMP"
button to increase by
1° F or 1° C.



- 5) The default for "HI/LO" is "HI". Press the "HI/LO" button to switch from "HI" to "LOW".



- 6) The SunTech Portable Heater can be turned off by pressing the "POWER" button. If the heater is left on, there will be (5) second sound alert to let you know that the time is expiring. If no actions are taken, the heater will shut off.

Recommendations for Maximum Performance

1. The SunTech Portable Heater can heat a room up to 1000 square feet. Be sure not to place the heater in an area where the air flow or air movement is great.
2. Direct the outflow towards the center of the room and not against a solid structure, like a wall for example. For larger areas, place the heater within a central location.
3. The SunTech Portable Heater is designed for maximum efficiency in the 68⁰ F to 77⁰ F range. This is because of the ambient air moving through the heater and out constantly.
4. Existing HVAC heating system vents should be closed. This allows the heater to function in an isolated area.
5. It is not recommended to operate heater in areas exposed to non-insulated concrete or metal walls. Concrete floors should be covered to insulate the heat within the room.
6. If the heater filters become dirty or dusty, they must be cleaned for the heater to operate to its maximum efficiently.

Care, Maintenance, and Storage

Before care or maintenance is applied, always unplug the cord from the receptacle. The cabinet housing can be wiped down with water and a damp cloth or with furniture polish. The heater has a washable filter. The filter should be cleaned regularly to provide for maximum performance. Once the filter is removed, run warm water through and over the filter to remove dirt and dust. Shake all water residue from the filter and replace it back in the heater. (Note: A mild soap can be applied to assist in removing dirt and dust from the filter)

If the heater is not to be used for an extended period of time, it can be stored away. Make sure the power is turned off and the cord is unplugged from the receptacle. Wrap the cord around the handle on the rear of the portable heater. Cover the heater to prevent dust from accumulating on the heater. You may want to pack it back in its original carton. Always store the heater in a dry and dust free environment.

(Note: You may want to clean the filter prior to storing the heater away so that it is ready for operation the next time it is put in use.)

Troubleshooting

1. PROBLEM:

- a. If the Heat Emitter is broken or damaged
- b. If the Control Panel is not responding, the temperature reading is above 85⁰F/32⁰C, or there is a burning odor coming from the portable heater
- c. Or if the power cord is damaged

SOLUTION: Contact the manufacture immediately. **DO NOT** attempt to operate the portable heater as this may cause electric shock, fire, and/or injury.

2. PROBLEM:

- a. The amount of heated air exiting the front of the portable heater is reduced.

SOLUTION: Check the electrostatic filter to make sure it is free of dust and dirt. Also check the front grill and rear air intake to make sure it is not being blocked by any kind of debris.

3. PROBLEM:

- a. The portable heater will not turn on.

SOLUTION: First, test your outlet to make sure it has power. You can do this by plugging in another appliance and turning the appliance on. Secondly, check the LED display to see if it is flashing. If this is the case, press the POWER button to turn off the timer and resume normal operation of the portable heater. Third, check the power switch to see if it is lighting up. If the outlet does have power, the LED display is not flashing, or the power switch is not lighting up, then contact the manufacture immediately for further troubleshooting.

4. PROBLEM:

- a. The portable heater continues to operate even when the power switch is turned off.

SOLUTION: **Do not** unplug. The portable heater has a fan that will continue to operate even when the power switch is turned off. This fan continues to run in order to cool down the portable heater. Once the fan stops running, you can then unplug the portable heater.

5. PROBLEM:

- a. The control panel displays no temperature or timer.

SOLUTION: First, check to make sure the power cord is not damaged, is plugged in, and the outlet has power. Secondly, check to make sure the control panel is not damaged. If the control panel display continues to be inoperable, contact the manufacture for further troubleshooting.

6. PROBLEM:

- a. The control panel is displaying a temperature and timer, but the portable heater does not operate.

SOLUTION: The Signal Cable or other relevant plugs may have become disconnected. Please contact the manufacture for further troubleshooting.

7. PROBLEM:

- a. The heat emitter is functioning and the air outflow is working, but the temperature displayed on the LED panel does not increase.

SOLUTION: The temperature sensor may be damaged or has become disconnected. Please contact the manufacture immediately for further troubleshooting.

Warranty

3 Year Limited Warranty: TC Unlimited, Inc. warrants the heating elements and electronics against defects in material and workmanship for a period of three years from the original date of purchase. **This portable heater is for INDOOR use only.**

Operating your portable heater outdoors will VOID this warranty. Any damage due to exposure to outdoor elements such as rain, snow, sun, wind or extreme temperatures will not be covered by this warranty.

Extent of Warranty

This limited warranty applies to products manufactured or distributed by TC Unlimited, Inc. Inc., under the SunTech Sauna brand name, delivered in the continental United States or Canada and extends to the original purchaser only. This warranty becomes valid at time of purchase and terminates either by specified time frame listed above and/or owner transfer. **Your sales receipt showing the date of purchase of the product is your proof of purchase.**

Manufacturer Warranty

All TC Unlimited, Inc. and SunTech products are manufactured with the highest quality materials and are warranted to be free from defects in material and workmanship at the time of purchase. The appliance warranty is extended through the manufacturer of the product. All exchanged parts and products replaced under this warranty will become the property of TC Unlimited, Inc. and/or SunTech. TC Unlimited, Inc. and SunTech reserve the right to change manufactures of any product part to cover any existing warranty. Any parts determined to be defective must be returned to TC Unlimited, Inc. to obtain warranty service. You must prepay any shipping charges, export taxes, custom duties and taxes, or any other charges associated with the transportation of the parts. In addition you are responsible for insuring any parts shipped or returned. You must present TC Unlimited, Inc. and/or SunTech with proof of purchase documents (including the date of purchase). Any evidence of alteration, erasing or forgery of proof of purchase documents will be cause to **VOID** this limited warranty. Product on which the serial number has been defaced or removed is not eligible for warranty service.

Warranty Limitations

This warranty does not apply if the unit has been subject to negligence, alteration, fabrication, misuse, abuse, repairs by non-TC Unlimited, Inc. authorized personnel, inappropriate installations, or any case beyond the control of TC Unlimited, Inc. invalidating this warranty including but are not limited to:

- Use of lacquer or paints
- Heater and other TC Unlimited, Inc. products accessories placed on non-approved surfaces
- Outdoor applications
- Normal wear and tear or weathering

Surface cracks are not considered defects in material or workmanship, as they are normal characteristics of all wood.

Disclaimers

TC Unlimited, Inc. shall not be liable for loss of use of heater or other TC Unlimited, Inc. products or other incidental or consequential costs, expense or damages. Any implied warranty shall have duration equal of the applicable warranty stated above. Under no circumstances shall TC Unlimited, Inc., SunTech or any of its representatives be held liable for injury to any person or damage to any property, however arising. Specifications are subject to change without notice or obligation.

Legal Remedies

This limited warranty gives you specific legal rights. You may have other rights, which may vary from state to state.

Customer Service

For customer service, contact your authorized dealer. If you need additional information or assistance, please contact TC Unlimited, Inc. Inc. Customer Relations Department at (888) 810-7555.

WARRANTY CARD

Congratulations on your purchase of the SunTech Portable Heater from TC Unlimited, Inc. Please take the time to complete the following Warranty Card and mail it to:

**TC Unlimited, Inc., Inc.
4755 Zinfandel Court #D
Ontario, CA 91761**

Please include a copy of your sales receipt showing date of purchase as this will serve as proof of purchase.

Warranty will be VOID if the following warranty card is not mailed back within 60 days of purchase date along with proof of purchase.

****Serial number (S/N) is located on the heater's front panel, rear panel, or on the carton.****

DETACH HERE



WARRANTY CARD

All fields must be completed to validate the warranty.

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Phone Number: _____

Purchase Date: _____