



OWNERS INSTALLATION AND OPERATING MANUAL

SMART+ PRODUCTS INFRARED HEATER

Model: **SPP-STEALTH-6W**



Safety Notice

Please read this entire Installation and Operating Manual BEFORE installing and using your new Infrared Heater. Failure to fully understand and follow instructions may result in property damage, bodily injury, or even death.

If the Infrared Heater is not used properly, a house fire may result. For everyone's safety, FOLLOW all Installation and Operating Directions.

Save These Instructions

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***Contents in the box:**

1. Infrared heater
2. Instruction manual
3. Remote Control (2 AAA batteries not included)

INTRODUCTION

Thank you for choosing one of the best Infrared distribution heaters available on the market today. Our Infrared Heater is a very safe and effective room heater. It produces safe, clean and economical heat by utilizing quartz infrared heating elements. The heating process of the Infrared Heater is similar to the way the sun warms the earth. The infrared elements warm the heat chamber and the whisper quiet fan distributes the accumulated warmth. This process is unique among heaters in that it minimizes wasteful heat collection at the ceiling height of rooms and targets it toward the living space instead. Thank you for being our customer, and enjoy your heater!

Our Infrared Heaters have been tested and listed for installation in residential and mobile homes by ETL:



Intertek

3189533

Conforms to UL STD. NO.1278

Certified to CSA STD. C22.2 NO.46

SPECIFICATIONS:

Electrical:

Voltage: 120V~60Hz

Power consumption: Low 1000 Watts/High 1500 Watts

Thermostat range: 50-90 Fahrenheit

Coverage:

Up to 1500 square feet of unobstructed area

Dimensions:

15" x 14.8" x 18.3", 28.5 lbs

Safety Features:

Advanced Safety Overheat Shut Off

Tip Over Shut Off

Features:

Remote Control

High/Low/Eco Heat Settings

Air filtration system
Lifetime Washable Filter
On/Off Timer
Eco Friendly Wood

IMPORTANT SAFETY INSTRUCTIONS

**READ AND UNDERSTAND ALL INSTRUCTIONS, SAFETY WARNINGS,
AND FAQ'S BEFORE USING THE HEATER**



WARNING!



! POTENTIAL FOR ELECTRICAL HAZARD IF NOT ADHERED TO!

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

1. This heater must be plugged into a 120V, 15 amp (or more) circuit of its own. Nothing else can be plugged into the same circuit. If unsure if your home meets this specification, consult a certified electrician prior to use. **Risk of fire, overheating, malfunction, property damage, injury, or even death may result if not adhered to!**
2. Connect to a properly grounded, 3-prong outlet only. Do not connect the heater to extension cords, surge protectors, timers, direct breakers, or an outlet with other appliances connected to the same outlet. **Risk of fire, overheating, malfunction, property damage, injury, or even death may result if not adhered to!**
3. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Use handles (certain models) or wheels to move this heater.
4. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, and curtains from the front of the heater and keep them away from the sides and rear of the heater.
5. Extreme caution is necessary when any heater is used by or near children, invalids, pets, or when the heater is left operating unattended.
6. Always unplug the heater when not ⁴ in use.

7. Do not operate any heater with a damaged cord or plug or after the heater malfunctions, has been dropped, or damaged in any manner. Contact the manufacturer for resolution options.
8. Do not use outdoors. Exposure to outdoor elements such as rain, snow, sun, wind or extreme temperatures may cause the heater to become a safety hazard.
9. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations, nor any locations that use GFCI outlets.
10. Never place heater where it may fall into a bathtub or other water receptacles.
11. Do not run cord under carpet. Do not cover cord with throw rugs, runners, or similar coverings. Arrange cord away from traffic area and where it will not be tripped over.
12. The heater must be plugged into a wall outlet that is a DEDICATED CIRCUIT, with a minimum 15 amp rating on that individual circuit.
13. To disconnect the heater: FIRST, turn the power button to the “off” position, then remove plug from the wall outlet.
14. Do not allow foreign objects to enter or block any ventilation or exhaust opening as this may cause an electric shock or fire, or damage the heater.
15. Allow at least 3 feet of unobstructed space to the front and rear of the heater to allow for maximum heat, air, and ventilation flow.
16. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable liquids are used or stored, nor use flammable solvents to clean the heater. Also, make sure to keep heater dry at all times.
17. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
18. Do not use abrasive solvents to clean the heater as it may cause damage to the finish or casing.

PLEASE REVIEW FREQUENTLY ASKED QUESTIONS ON THE NEXT FEW PAGES PRIOR TO USING YOUR HEATER.

FREQUENTLY ASKED QUESTIONS (FAQ'S)

My heater emits a "strange" odor when I first open the box/when I turn the heater on for the first time. Why?

These are both normal. This heater is treated with a special heat safe/resistant coating. This odor will sometimes be present when the box is opened, and may be compared to a heaters version of "new car smell." Also, similar to all hearth appliances (woodstoves, etc.), the coating, exposed to heat, will produce this particular odor during the first few hours of operation. This will dissipate after the break-in period. **If you are sensitive to odors, you may want to pre-burn the unit in a garage with the door open until the initial odor dissipates.**

If my heater runs on approximately 1500 watts, how many BTU's is that? Is that a lot of heat?

At 1500 Watts, your heater will use approximately 5100 BTUs. 5100 BTUs, compared to your home furnace, is a very small amount of heat. It may take several minutes, to several hours to heat your area, depending on various factors (see *Heater Placement*).

Can my heater really operate on less money per day? What are my operating costs?

Most Definitely. If the heater is used as it is intended (as supplement/assist heat), it should cycle on and off, allowing for it to heat a total of approximately 8 out of the 24 hours of the day. Using the national average of approximately 10¢ per kWh (look at your bill for exact cost per kWh--will vary per state), your average heating cost should be less per day compared to your main furnace. The costs will increase *if it is used as the single source of heat*, or if heat somehow escapes the room being heated, since the "on" cycle will run longer.

The Formula: To determine the cost of this or ANY 1500 watt appliance, multiply 1.5 X your cost per Kilowatt Hour. You can find the cost per KWH for your state at:

<http://www.eia.doe.gov/fuelelectric.html>

What is the life expectancy for the Heating Elements? Can the heating elements be replaced?

The life expectancy of the heating elements is typically 25,000 hours. Heating elements may be replaced by obtaining parts from SMART+ PRODUCTS Products, although it is not recommended (unless you are a certified heater technician or authorized directly by SMART+ PRODUCTS). All parts may be purchased through SMART+ PRODUCTS PRODUCTS if your product is out of warranty. Note: If you feel that the elements are ⁶definitely faulty right out of the box, contact

SMART+ PRODUCTS Products Tech Support first (for troubleshooting). Contact your place of purchase second.

Once I plug the unit in and turn it on, how long will it take to heat my room?

Typically it takes about ½ hour to feel a significant room temperature change. Please remember that with any type of heating process, there are many variables: Location (in the home), floor plan and size of the room, how well the room is insulated, how many doors/windows, how much bare concrete (acts as a heat sink with any type of heating), the opening and closing of an exterior door, long hallways, high ceilings, etc. Customers with smaller rooms experience quick heat changes. Others with larger and open floor plans can expect up to 24 hours to heat up.

I don't have a grounded outlet; can I use adapters, a 2-prong power strip, or remove the ground prong from the cord?

Definitely NOT! If you don't have a grounded outlet, contact a certified electrician for advice. Removing or altering any part of the heater's original design or intent (including the power cord) will not only void the warranty, but will make you liable for any unexpected or hazardous results.

Why doesn't the temperature on my heater match the temperature display on my wall, or external thermostat?

This is completely normal. The temperature display on your heater may vary from the temperature display on another thermostat (like the one mounted to your wall or a purchased external thermostat). The temperature sensor on your heater reads the temperature in, and around, the heater. The unit is near the cold floor (and heat rises), which in turn, will display a cooler temperature than elevated or external thermostats. **The best way** to operate your heater is just to set the unit on "High" and dial up to a temperature that feels comfortable to you. Then, leave it at that temperature, regardless of the mismatch. The heater will cycle off when the set temperature is met or exceeded slightly.

I don't have a grounded outlet; can I use adapters, a 2-prong power strip, or remove the ground prong from the cord?

Definitely NOT! If you don't have a grounded outlet, contact a certified electrician for advice. Removing or altering any part of the heater's original design or intent (including the power cord) will not only void the warranty, but will make you liable for any unexpected or hazardous results.

My home is not insulated very well, will this heater help me? Can I use the heater if I have vaulted or cathedral ceilings? I live in a structure that is more than 1500 square feet. Will this heater help me? Can I use the heater to heat multiple rooms at the same time? Will I be able to use the heater in a basement or garage?

The answer to these is the same. Yes. You will be able to use it, but keep in mind that rooms/structures with open floor plans, minimal insulation, adjacent rooms, or high ceilings will not retain the heat as efficiently, and may not feel pronounced heat changes. Also, the heater will stay on longer (delays the "off" cycle), and may increase your electric costs. Note that if you do

use it in a garage or basement, the moisture levels must be very low and they must have dedicated circuits (15 amps minimum) with no GFCI outlets. If unsure what a GFCI outlet is, contact a certified electrician.

Can I use more than one heater at a time? Can I use the heater and another appliance at the same time?

Yes. But make sure they are not plugged into the same circuit. Each heater (heaters are considered appliances) requires its own minimum 15 amp circuit (**with no other items plugged into that circuit**). If unsure your circuit meets these requirements, verify with a certified electrician. **Risk of fire, damage to property, or injury may result if requirements are not met.**

Why does my heater's fan continue to run even after the set temperature is reached or the power is turned off?

This is normal. The heater's fan will continue to run, even after the heater automatically cycles down. The fan continues to run so that every last bit of heat is blown out of the heat chamber, while allowing the unit to continue filtering your air. Once the internal box/components cool completely, the fan should then shut off on its own.

My fan runs at all times, even when the heat has cycled off. Why?

This is normal. Although the heat cycles off, the fan stays on until the chamber is cool. If the temperature falls below the desired set temperature during the time the fan is cooling, the heating elements will cycle back on. This will not allow for the fan to completely cool off the chamber, and shut down. The fan seems to run continuously. It is a safety mechanism to prevent overheating. The best way to avoid this is to have the set temperature at least 5 degrees higher than the desired heat, so that it retains that heat during the cooling cycle.

Why doesn't the fan speed increase when I change the setting from LO to HI?

This is normal. The heater's fan's speed is not affected by the HI/LO settings. The fan is designed to vent the heat at one soft, comfortable, and energy efficient speed. What is affected by the HI setting is the heat output. In essence, in the HI mode, the heater produces "more" heat, rather than "faster" heat.

My heater does not perform as well as another brand heater that I purchased. Why Not?

There are many brands of heaters on the market. Each brand is designed with different heat specifications, fan speeds, colors, material types, displays, and electrical components. They are manufactured this way for you, as the consumer to have choices, selection, and preferences. As long as the unit functions as specifications indicate, comparison to other brands will ultimately depend on individual consumer perception.

I purchased my heater so that it could cut my heating costs, but my electric bill has gone up. Why?

The compact SMART+ PRODUCTS heater can definitely save you on heating costs, when compared to the existing central heating system in place in your home, and when used as directed. Your heater is designed to give your main heat source a supplement "boost," or allow for you to have extra heat (in the form of soft infrared waves) in locations where you would otherwise be short. It is meant to cycle on and off, and not specifically designed to be used as a single heat source, especially in larger homes. If you intend on using it as a single heat source

(which you may), expect the heater to 1) take as much as 24 hours to heat the area, 2) stay on for longer periods of time (without cycling off) due to heat loss, and 3) increased use time, and electric costs.

My heater's display shows my ambient temperature to be in the 20's, when I know it is warmer than that. Why?

The heater's display is defaulted to read the temperature as Fahrenheit. If your heater is definitely heating, but shows it is in the 20's, you probably have the setting to read your temperature in Celsius, rather than Fahrenheit. See Users Guide to change.

HEATER OPERATION

Here is a small description of how our heaters work:

Operation Mechanism:

- 1) Air is brought into the heater through an easy to clean, washable filter at the rear of the unit.
- 2) The highly efficient, one-speed, high volume fan pushes filtered air through the chamber, across the heat elements.
- 3) During this exchange, heat is accumulated and transferred to the air in the chamber.
- 4) The newly transferred filtered, clean, and hot air is then circulated out the infrared heater's front vent.
- 5) The whole process produces variably hot air, compared to the air originally entering the heater.
- 6) This method of heat generation creates an even, comfortable level of infrared heat from floor to ceiling (as opposed to venting hot air blowing that will just rise to the ceiling and dissipate)

There is no drying of the air with this method of heating and no harmful chemicals or pollutants are released.

HEATER PLACEMENT

By using this infrared heater you can efficiently heat up to 1500 of unobstructed square feet. This heater is NOT intended to replace your home's furnace. Rather, it is designed to be a supplement to it. It is not an instant heater, and on occasions (depending on various factors), can take up to 24 hours for a room to reach the desired temperature. Your Infrared Heater is equipped with a lifetime washable static filter system which removes airborne contaminants as air circulates into the heating chamber.


To achieve maximum efficiency of your Infrared Heater, please follow these recommendations:

1. Place your Infrared Heater at least 3 feet from an "inside" wall (a wall that is away from the cold, outside perimeter of your house) of the room in which it will be used. Face the heater's exhaust vent (the grill) toward the cooler "outside" walls of the room. This positioning will allow the heat to be moved across the room toward the outside walls to provide more even warmth throughout the room.
2. Make sure that windows and doors are not allowing a high rate of airflow into the room where you will be placing your heater. High airflow will minimize the effectiveness of your Infrared heater, as it would any conventional type heater.
3. For best results, always try to maintain a minimum of 40% relative humidity in the environment to be heated.
4. It is recommended that the Infrared heater be used in rooms that are insulated according to code. You can use your heater in a room whether insulated or not, but a non-insulated room will cause greater and faster heat loss which is counterproductive, and will keep the heater in the "on" cycle longer. This may increase your electricity costs.
5. Keep the area around the heater clear of clutter and obstacles so that there is free airflow to and from the heater.
6. Make sure to keep your heater out of the main traffic area of the room in which it is located; it should be a welcome addition to the room rather than an obstacle to be stepped over or stepped around.
7. The heater will pull a good amount of power (between 10-14 amps on average) from the wall outlet and from the circuit (the circuit is considered all the outlets and lighting that is controlled by a single house breaker). The heater needs to be connected to an individual circuit with **nothing else connected to that circuit**. Doing so will exceed the maximum amperage allowed for that breaker. Excessive heat, hot power cords, damage to outlets, and risk of fire will be the result, if not adhered to, and will void your warranty (releasing Smart+ Products from any liability).

USER'S GUIDE

Plug your Infrared Heater power cord into a 120V, 15amp (or higher) three-prong receptacle.

To Turn the Heater On:

1. Turn the Master toggle switch in the back of the heater  to the "On/Lit" position.
2. Press the "Power" button on the front control panel or "ON/OFF" button on the remote control.



Heater Default Temperature:

The heater's default temperature every time it is powered "on" is 72°F.

- **Note that the heater will not activate its heat elements or fan, if the starting ambient temperature (temperature in the room) is above 72°F.**
- If this is the case, the set desired temperature must be first be adjusted above the ambient temperature.

Ambient Temperature (room temperature): To view the ambient room temperature, press the "Temp up" and "Temp down" buttons at the same time for appx 3 seconds. The room temperature will display for 5 seconds then ¹¹return to the desired set temperature.

Set Desired Temperature (Goal Temperature): Press the “Temp up” or “Temp down” button on the control panel or on the remote control to select the Set Desired Temperature. The heating process will begin.

- When the heater detects that the ambient room temperature matches the set desired temperature, the heating will stop automatically.
- The fan will continue to run for a few extra minutes so that the unit’s chamber can cool, then the fan will also shut off. When the ambient temperature drops below the set desired temperature once again, the heater will restart the heating cycle.

To Set Heat Mode: Press the “High/Low/Eco” button on the control panel or “H/L/E” on the remote control to switch between the High, Low, and Eco modes. The corresponding High, Low or Eco light will switch on. Note that in all modes, the fan speed will remain the same.

Heating Process:

In the High Mode, all heating elements will engage for full 1500 Watt heating capacity.

In the Low mode, corresponding heating elements will engage to heat at 1000 Watts, to save energy. This mode can be used when some heat is needed, but not at full capacity.

In the Eco mode, the heater’s Set Desired Temperature will automatically default to 68°F. The heater will determine heating element usage based on the ambient room temperature. If the ambient room temp is below 64°F, all heating elements engage. As the ambient temperature approaches 68°F, the number of heating elements used decreases. The heating elements will disengage when 68°F is achieved.

The On/Off Timer: For your convenience, our heater also comes with a built in timer. This is a function that allows for you to set the heater to Power on (to default set temp) or Power off at desired hourly intervals.

To Set “On” Timer: With the master switch in the back of the unit “on” position, press the “Time” button on the front control panel or remote control. The number 0 will appear on the display. “Zero” indicates there is no specified time frame for the heater to turn on. This can be increased in hourly increments by pressing the “time” button. The number chosen (1, 2, 3. . .12) determines how many hours before the heater automatically turns on. After the number is set, the display will show only the hours or minutes remaining until it automatically turns on.

To Set “Off” Timer: While the heater is heat cycling, press the “timer” button. The number 0 will appear on the display. “Zero” indicates there is no specified time frame for the heater to turn off (it will cycle on and off based on the set desired temperature). This can be increased in hourly increments by pressing the “time” button. The number chosen (1, 2, 3. . .12) determines how many hours before the heater automatically turns off. The display will

automatically go back to the displaying the set desired temperature after 5 seconds of button inactivity.

Celsius and Fahrenheit: The heater displays temperature in Fahrenheit as the default, but has the capability to display it in Celsius as well.

To change between °Celsius and °Fahrenheit: Press “C°/F°”

FILTER MAINTENANCE

Your Infrared Heater is equipped with an easy to clean, washable static filter. Regular cleaning and maintenance of your filter will ensure a lifetime of trouble-free use.

1. Turn off the heater. Locate the filter at the rear of the heater and lift out (some filters may be held on by brackets. Others may be magnetic. Others may require loosening up some screws).
2. Rinse the filter by spraying warm tap water through the filter. Make sure the water is sprayed into the side that faces the inside of the heater, and comes out of the side that faces away from the heater. Continue spraying until the filter is clear of dust and debris.
3. If the filter is extremely dirty or clogged with grease, you can soak the filter in a mild solution of dish soap and water, then brush (the side that faces away from the heater) with a soft brush and repeat the rinsing process.
4. Shake filter to remove excess water and lay on clean cloth or paper towels to dry. Do not use heat source to dry filter.
5. Reinstall the filter on to the heater after it is completely dry. Do not use this filter for any other purpose.

NOTE: Never operate the heater without a filter in place. Without the filter, dust can accumulate on the heater’s components and cause damage.