

MODEL HS-CH 1500W | HS-CH 2500W



WARNING

WARNING — THE INSTALLATION MUST BE CARRIED OUT BY A QUALIFIED ELECTRICIAN.

1. DO NOT leave the appliance unattended when not in use
2. The heater must be installed on the mounting brackets provided
3. Infrared Carbon Heaters can only be installed by a qualified electrician
4. Before installation or maintenance, please disconnect the power to prevent electric shock

Application Notice

1. Remove the unit from its packaging and check to make sure if it is in good condition before using
2. DO NOT let children play with parts of package (such as plastic bags). This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children and vulnerable people should be supervised to ensure that they do not play with the appliance. No liability can be accepted for any damage caused by non-compliance with these instructions or any other improper use or mishandling. NEVER place hands under the heating elements. DO NOT allow cord to overhang the counter top where it can be easily pulled by children
3. Check the household voltage to ensure that it matches the heater's rated specification. Check power cord and plug carefully before use to make sure that they are not damaged. If the supply cord is damaged in any way, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard. DO NOT operate any heater with a damaged cord or plug or after the heater malfunctions, has been dropped or damaged in any manner. Disconnect power at service panel and have heater inspected by a reputable electrician before using
4. Before unplugging the power cord, be sure to turn off the power, when energizing the unit, be sure your hands are dry to prevent from electric shock
5. The heater is hot when in use. To avoid burns, DO NOT let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, and curtains at least 3ft (0.9m) from the front of the heater and keep them away from the sides and rear. To prevent overheating of this appliance, keep the air inlets and outlets clean and free of anything that may cause blockage. Check all inlets and outlets from time to time to ensure it is clear of any dirt or dust accumulation. DO NOT COVER
6. Connect to properly grounded outlets only. Always plug heaters directly into a wall outlet / receptacle. Never use with an extension cord or relocatable power (outlet / power strip). This heater is not intended for use in bathrooms, laundry and similar indoor locations. Never locate the heater where it may fall into a bathtub or other water container. To disconnect heater, turn controls to OFF, then remove plug from outlet
7. DO NOT use near or in the immediate vicinity of a bath or swimming pool or any source of liquid. To protect against electric shock, DO NOT immerse cord or plug in water or any other liquid. DO NOT insert or allow foreign objects to enter any ventilation or exhaust opening, as this may cause an electric shock, fire or damage to the heater. DO NOT put fingers or foreign objects into the grille while in operation. Always unplug the heater when not in use
8. This 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
9. Parts of the heater may exceed +200°C, contact with the heating tub, reflector, or mantle parts near the heating tube, may cause severe BURNS. To avoid burns, DO NOT let bare skin touch hot surface. ALWAYS allow heating element to cool at least 10 minutes before touching the heating tube or adjacent parts
10. This product contains recyclable materials. DO NOT dispose this product as unsorted municipal waste. Please contact your local municipality for the nearest collection point

CAUTION

PLEASE READ INSTRUCTION BEFORE COMMENCING INSTALLATION AND RETAIN FOR FUTURE REFERENCES.

Electrical products can cause death or injury, or damage to property.

If in any doubt about the installation or use of this product, consult a competent electrician.

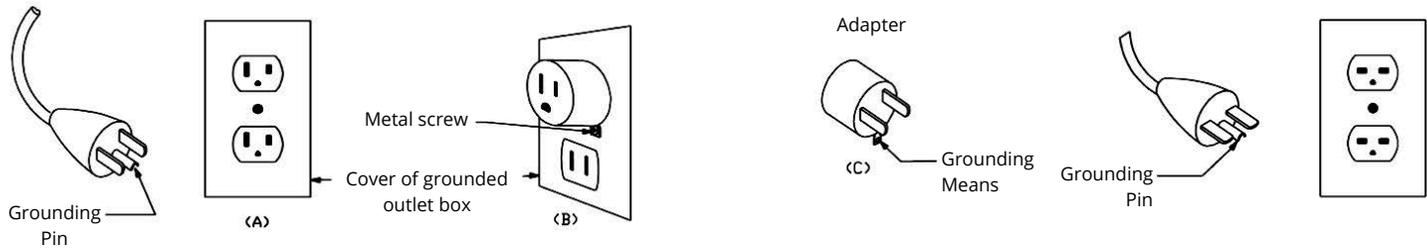
IMPORTANT REMINDER

Model	HS-CH 1500W	HS-CH 2500W
Wattage (W)	1500W	2500W
Voltage (V)	120V AC	240V AC
Hertz (Hz)	60Hz	50-60Hz
Dimensions (inches)	34-1/2" x 7-11/16" x 3-3/8"	
Weight (kg)	3 kg	

The carbon infrared heaters produce instant and comfortable heat like the sun. These robust and weatherproof heaters are designed for domestic and commercial heating applications within indoor and outdoor areas.

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IMPORTANT REMINDER



Grounding Methods for HS-CH 1500W

The heater is for use on 120V AC. The cord has a plug as shown in the diagram above. An adapter as shown at (c) is available for connecting three-blade grounding type plugs to two-slot receptacles. The GREEN grounding plug extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box. The adapter should NOT be used if a three-slot grounded receptacle is available.

INSTALLATION GUIDE

Tools Required:

- Pencil
- Hammer
- Level
- Screw driver
- Power drill and drill bits

A wall mounting bracket is provided with the heater which has been specifically designed to allow this product to be fitted to a ceiling before drilling the holders for the ceiling is solid and there are no hidden water pipes or electric wires. The heater **MUST** be installed no less than 19.7" from side walls and no less than 94-1/2" off the floor.

ATTENTION: The appliance **MUST** be installed on the solid surfaces like concrete, wood or metal, etc.

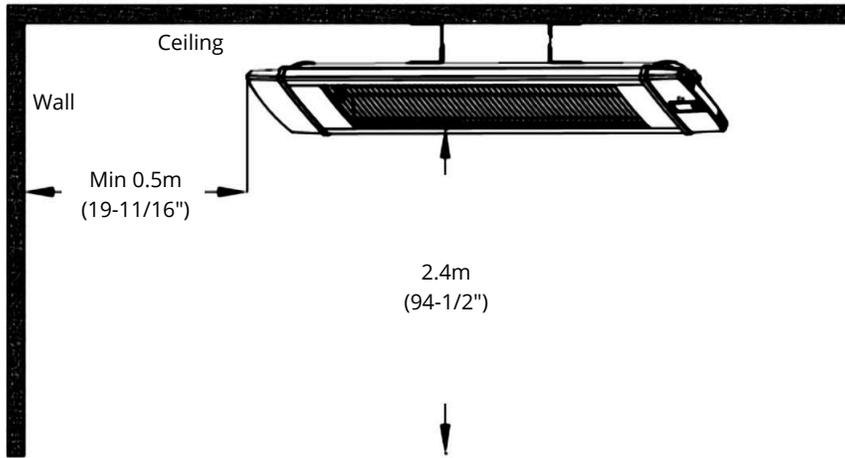
IMPORTANT REMINDER:

Ensure that the supply cables is well mounted and that it does not come into contact with reflector of the heater or that does not trail into heated area, the supply cable can be fixed to the metal mounting bracket behind heater with plastic zip ties.

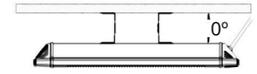
1. This heater should be installed by a competent person (i.e. a qualified electrician)
2. Always disconnect the heater from the electricity supply and allow it to cool before installation
3. For ceiling mounting, the lowest part of the heater must be located or above a minimum height of 94-1/2" from ground level, so that the heater cannot be touched when in operation
4. For ceiling mounting, there must be a 94-1/2" distance from your appliance to the ground
5. When installed to the ceiling, there must be a distance of 19-11/16" between corners and the appliance
6. The distance of your appliance from the living beings is to be one meter minimum
7. The distance from the front side of the heater to materials such as wood, carton, cloth, etc., must be one meter minimum
8. When mounting to a ceiling, DO NOT position the heater at an angle more than 90° and less than 45°
9. The supply cable must be at the lower end of the heater if the heater is installed at an angle or vertically
10. Keep the supply cord away from the body of the heater which will get hot during use
11. DO NOT install the heater on an inflammable surface
12. Observe the minimum safe distance between the heater body and the inflammable surfaces when mounted
13. The heater should always have a minimum clearance of 19-11/16" from a ceiling and adjacent walls
14. If the heater is to be used outside, a weatherproof outlet is recommended
15. Before drilling, ensure that there are no wires or water pipes in the area where the heater is to be installed
16. The heater must be installed on the mounting brackets provided
17. Fasten the brackets securely to the mounting surface and the backside of the heater using the nuts and screws supplied
18. Fasten the heater securely on the brackets using the nuts and bolts supplied
19. The brackets can be used to adjust the direction of the heater, adjust the heater angle by loosening the two bolts on the wall mounting bracket, tighten the bolts again when the desired angle is reached

INSTALLATION GUIDE

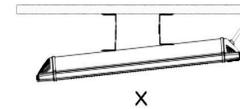
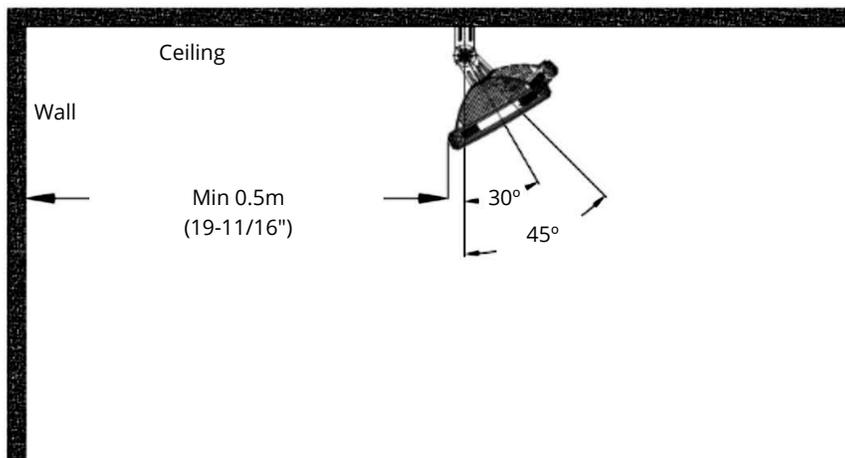
Ceiling Installation



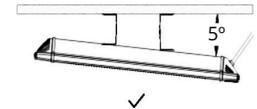
Products cannot be tightly installed



The product requires an L bracket to separate the product from the mounting plate



The product power cord cannot be mounted horizontally



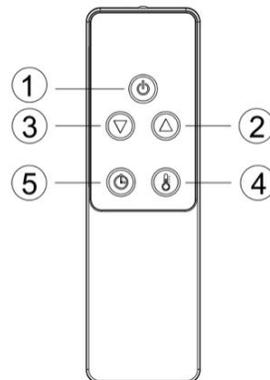
The product power cord can be installed downwards

FUNCTION & OPERATION

OPERATING

Product Key Function:

1. Turn on the power, the product standby mode display (-);
2. Press key function: press the button, then press the heat levels (L1-L2-L3-standby-off)



Remote Control Instructions

1. **Power Button:** Turn the heater OFF
2. **Up Button:** Increase timer and level
3. **Down Button:** Decrease timer and level
4. **Level Button:** Use to adjust the heat levels (L1-L3). Press the level button then use the up and down buttons (buttons 2 and 3) to increase or decrease the heating level
5. **Timer Button:** To set the timer from 0H-9H, which is the number of hours it will run. 0H will display and then adjust to the number of hours you would like to set, using the up and down buttons (2 and 3)

- ❖ Heaters and their remote controls have the same frequency, so it is possible to control several heaters with just one remote
- ❖ **Push Button:** on the right of heater, it could be manual operated without remote control

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FUNCTION & OPERATION

Inserting Batteries (not included)

Insert 2 AAA / Alkaline type batteries into your remote control

1. Flip the backside of your remote control and pull out battery cover. Insert the batteries in accordance with the instructions and polarity of the batteries
2. Change the batteries in the same way depicted above

NOTICE

1. Replace the old batteries with the same type batteries. Otherwise, your heater may not function well
2. Pull out the batteries in case of long terms of disuse to prevent leakage which may impair your remote control
3. DO NOT allow water or liquid to get into the remote control

ATTENTION

1. Always disconnect the heater from the electricity supply and allow it to cool before attempting to work on it
2. If the heater has collected dust or dirt inside the unit or around the heating element, have unit cleaned by a qualified service agent.
DO NOT operate the heater in this condition
3. The only maintenance required is cleaning of the external surfaces of the heater
4. DO NOT touch the heating element with bare fingers, as residue from your hand could affect the life of the lamp. If it is accidentally touched, remove the finger marks with a soft cloth moistened with mentholated spirit or alcohol
5. DO NOT attempt to repair or adjust any electrical or mechanical functions on this heater
6. The heater contains no user serviceable parts. Should the product suffer damage or breakdown, it must be returned to the manufacturer or its service agent
7. Damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person in order to avoid hazard
8. A disconnecting switch incorporated in the fixed wiring is to be provided

Troubleshooting

1. Check if the power cord is plugged into an electrical outlet.
If not, plug in
2. Check if electricity to the main fuse is working
3. Check to see if the power button on the back of heater is power on

❖ **E1 Error on Display:** Control unit overheat.
Check installation clearances.

❖ **E2 Error on Display:** Tip over function. Make heater less than 60° working angle and restart heater L1, 2, 3, shows in display, but no heat: Bulb is damaged. Arrange for replacement bulb with local dealer

CAUTION

When the appliance is not operated for a long period of time, cleaning or maintenance is conducted or when the location of the heater is changed, the heater should be turned to OFF and unplugged from the electrical connection. Periodic inspection and removal of dirt and contaminants will ensure that equipment can be operated safely.

Maintenance

ATTENTION — Careful and regular maintenance of your heater considering our instructions assume great importance so as to attain a long efficient operation of your appliance.

1. Check the filthiness of the Reflector and IR-Filament at least once a month. If necessary, apply cleaning and maintenance instructions
2. The number of checks may be increased considering the amount of the dust in the environment
3. Check the deformation of the Reflector, Wire and Frame visually while cleaning the appliance. In case of deformation, consult to your technical service
4. Check the Power Cord and Plug visually while cleaning the appliance.
In case of deformation, consult to your technical service

Cleaning

Regular and careful cleaning helps your infrared heater operate efficiently for many trouble-free years.

To clean your heater, follow the steps below:

1. Unplug the power cord for your safety before cleaning your appliance
2. Make sure the heater is cool before continuing
3. To keep the heater clean, the outer shell maybe cleaned with a soft, damp cloth. You may use a mild detergent if necessary. After cleaning, dry the unit with a soft cloth
(CAUTION — DO NOT let liquids enter the heater)
4. DO NOT use alcohol, gasoline, abrasive powders, furniture polish or rough brushes to clean the heater. This may cause damage or deterioration to the surface of the heater
5. DO NOT immerse the heater in water
6. Wait until the heater is completely dry before use

Storage: Store the heater in a cool, dry location when not in use to prevent dust and dirt buildup. Use packaging carton to store

Recycling

At the end of the electrical products useful life, it should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice in your country.

ORTECH reserves the right to modify at any time, without notice, any or all of our product's features, designs, components and specifications to meet market changes.