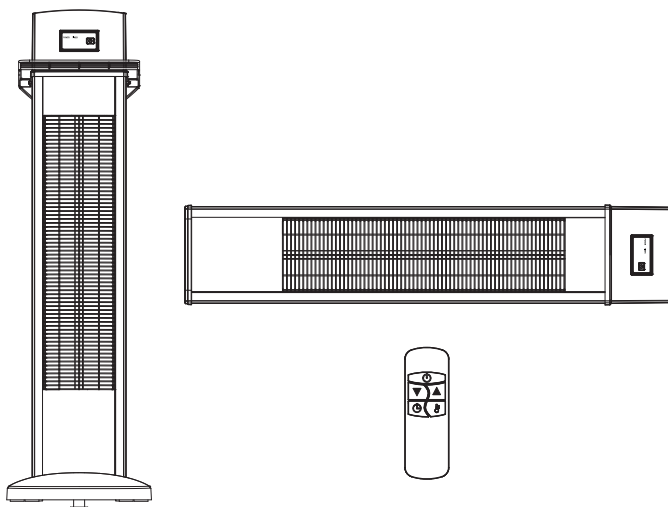




Portable Freestanding or Ceiling-Mount and Wall-Mount Infrared Heater Indoor/Outdoor



Owner's Manual Model No.: DR-298

READ AND SAVE THESE INSTRUCTIONS

Carefully read and review before attempting to assemble, install, operate, or maintain this product. Observe all safety instructions and information.

**FAILURE TO FOLLOW WARNINGS & OPERATIONAL
INSTRUCTIONS FROM THIS MANUAL CAN RESULT IN SEVERE
PROPERTY DAMAGE AND/OR PERSONAL INJURY.**

DO NOT RETURN TO PLACE OF PURCHASE!

Please contact our Toll Free Hotline:

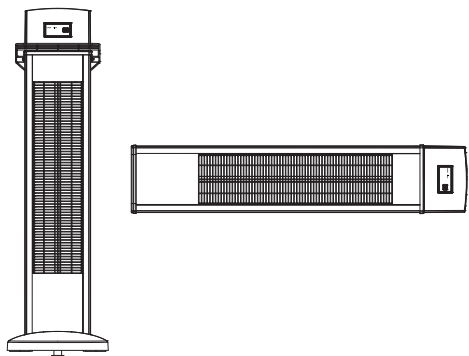
(800) 317-1688

for customer service & warranty issues

INTRODUCTION

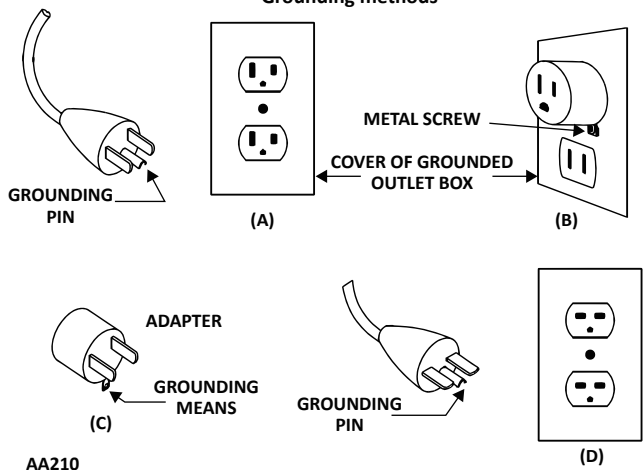
The DR-298 carbon infrared heater is a versatile heating solution suitable for both indoor and outdoor use. It can be used as a portable heater you can also mount on a wall or ceiling. The heater is designed to provide instant and comfortable heat, similar to the warmth of the sun. It is constructed with durable materials for outdoor durability and utilizes carbon infrared elements for efficient heat distribution. Whether you need indoor supplemental heating or want to create a cozy outdoor environment, the DR-298 offers a reliable and efficient heating solution.

Model: DR-298
Voltage: 120VAC
Wattage: 1500W
Hertz : 60Hz



This heater is designed for 120 volts AC input. The cord has a plug as shown at A in Figure 68.1. An adapter as shown at C is available for connecting three-blade grounding-type plugs to two-slot receptacles. The green grounding lug 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.

Figure 68.1
Grounding methods



AA210

PRODUCT FEATURES

CLEAN AND INSTANT HEAT with 3 POWER SETTING

Clean, instant, and odorless infrared heat with 3 power settings, 900W, 1200W, 1500W. 120V, 60Hz.

HIGH-EFFICIENCY REFLECTOR AND CARBON INFRARED ELEMENT

The infrared heater is equipped with a precision mirror aluminum reflector that has a high reflection efficiency of 90%. This reflector is designed to maximize the heat output and direct it towards the desired area, providing efficient and targeted heating. The reflector helps to distribute the heat evenly and effectively, ensuring that you experience optimal warmth and comfort. The carbon infrared element heats the person but not the object, which is ideal for patio heating.

INDOOR AND OUTDOOR USAGE

It is constructed with a high-quality aluminum housing that ensures durability and longevity, even when used in outdoor environments. The aluminum housing provides excellent protection against the elements, making the heater resistant to rust, corrosion, and other forms of weather-related damage.

FREESTANDING AND WALL/CEILING MOUNTED

The infrared heater is designed with a lightweight and sturdy base, making it easy to install and move around as needed. The inclusion of wheels adds to its portability, allowing you to easily relocate the heater from one room to another. Whether you want to warm up your living room during the day or heat your bedroom at night, the portable design of the infrared heater ensures convenient and hassle-free mobility.

TIP-OVER PROTECTION FOR MOVABLE HEATER

The infrared heater is equipped with a tip-over protection feature to ensure safe operation. This safety mechanism is designed to detect if the unit tips over or falls, and it will immediately shut down the heater to prevent any potential hazards that may arise from a tipped-over unit.

FOR MOVABLE HEATER

THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE.

We cannot be liable for any damages caused by failure to observe these instructions.

IMPORTANT INSTRUCTIONS

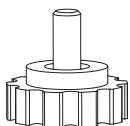
When using electrical appliances, it is important to follow basic precautions to minimize the risk of fire, electric shock, injury to a person, and hypothermia. Please carefully adhere to the following guidelines:

1. Read and thoroughly understand all instructions provided with the heater before using it.
2. Take caution as the heater becomes hot during operation. To prevent burns, avoid touching hot surfaces with bare skin. If the heater has handles, use them when moving it. Keep combustible materials such as furniture, pillows, bedding, papers, clothes, and curtains at least 3 feet (0.9 m) away from the front, sides, and rear of the heater.
3. Exercise extreme care when the heater is being used around children, person with disabilities, or the elderly. It is crucial to never leave the heater operating unattended.
4. Always unplug the heater when it is not in use.
5. Do not use the heater if the cord or plug is damaged or if the heater has been dropped or compromised in any way. Dispose of the heater or have it examined and repaired by an authorized service facility.
6. Avoid using the heater in locations such as bathrooms, laundry areas, or similar indoor spaces. Ensure that the heater cannot fall into a bathtub or any other water container.
7. Do not run the cord of the heater under carpeting or cover it with throw rugs, runners, or similar items. Additionally, avoid routing the cord under furniture or appliances. Position the cord away from areas with high foot traffic to prevent tripping accidents.
8. To disconnect the heater, first turn off the controls and then remove the plug from the outlet.
9. Keep foreign objects away from the ventilation or exhaust openings of the heater to prevent electric shock, fire hazards, or damage to the unit.
10. Do not obstruct the air intakes or exhaust vents of the heater in any way. Avoid using the heater on soft surfaces like a bed, as it may block the openings and lead to potential fire hazards.
11. It is important to avoid using the heater in areas where gasoline, paint, or flammable liquids are used or stored, as it contains hot and arcing or sparking parts.
12. Use the heater only as instructed in the provided manual. Using the heater in any other way not recommended by the manufacturer can result to fire, electric shock, or personal injury.
13. Always plug the heater directly into a wall outlet or receptacle. Avoid using extension cords or relocatable power taps/outlets.
14. Hypothermia can be life-threatening. If you experience symptoms such as high body temperature, headache, nausea, vomiting, tiredness, dizziness, fainting, or rapid pulse, turn off the heater immediately and seek medical attention.
15. To avoid excessive room temperatures that can cause hyperthermia, do not leave the heater running unattended in confined spaces around infants or individuals with reduced physical, sensory, or mental capabilities.
16. Connect the heater to properly grounded outlets only for safe operation.

SAVE THESE INSTRUCTIONS

FREESTANDING ASSEMBLY

Installation hardware content (Included)

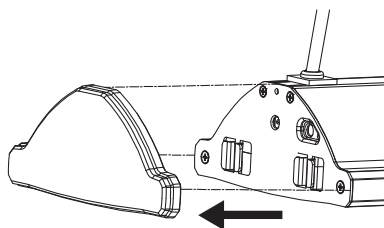


H5

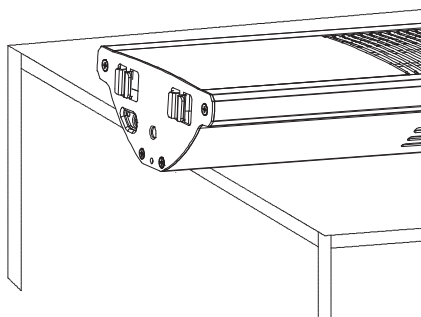
No.	Desc.	Qty
H5	Handle Screw	1

ATTACHING THE BASE TO THE HEATER

Cover(take off from heater)



Large face side on the top



1. Place the heater on top of the desk or table, and then slide the baseplate onto the heater by aligning the metal flange with the corresponding slot on the baseplate, as depicted in Fig - 1a.

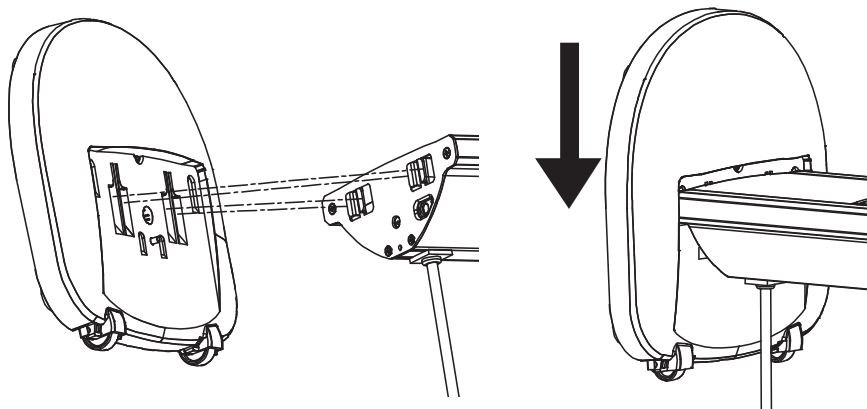


Fig - 1a

2. Securely fasten the baseplate to the heater using the Handle screw (H5) as illustrated in Fig - 2a. Ensure that the handle screw is tightened completely.

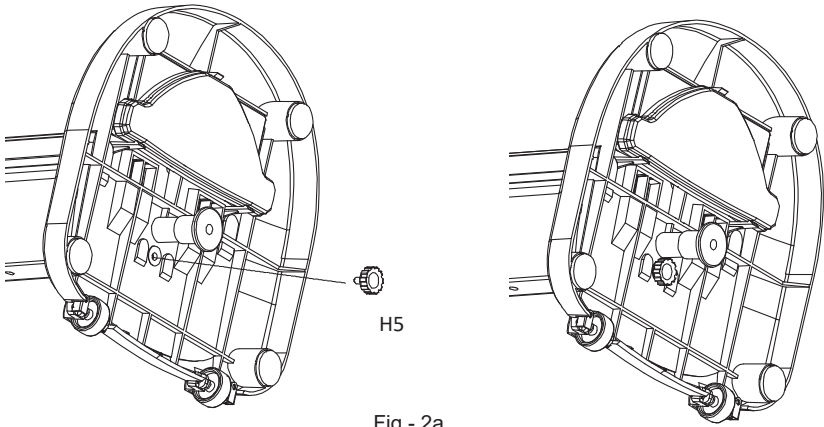


Fig - 2a

3. After assembling the baseplate, place the heater in an upright position. Release the latch striker bolt located on the top plastic cap and unfold the protection bracket while holding onto the latching bolt. Continue unfolding the bracket until the striker bolt aligns with the latching hole on the back of the heater. Release the bolt and lock the bracket securely in place, following the instructions shown in Fig - 3a.

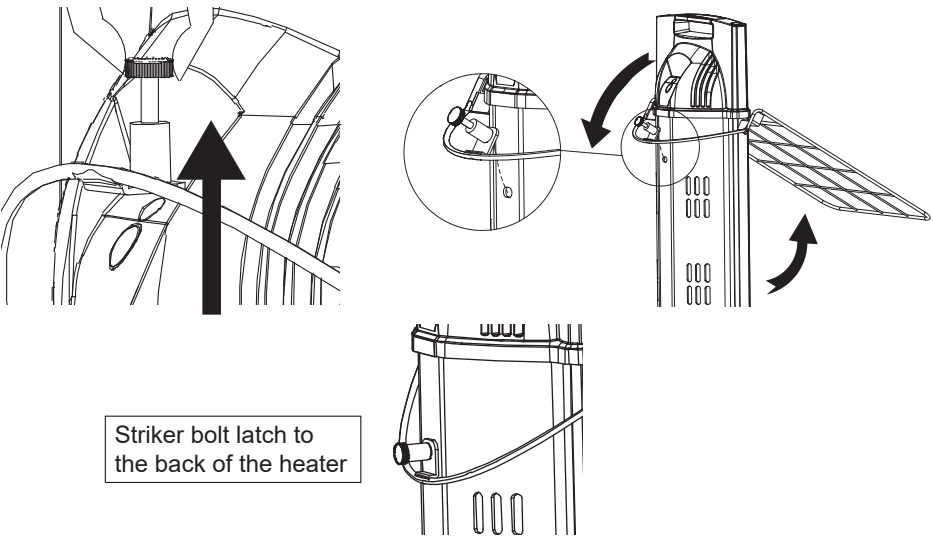
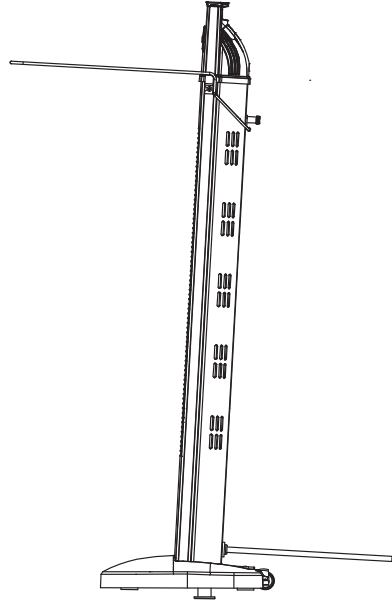
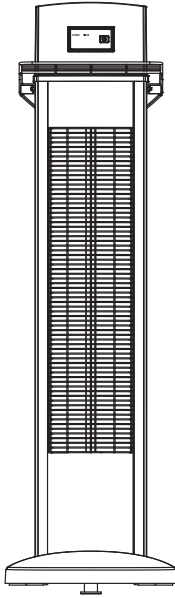


Fig - 3a



The heater has 3 degrees tilt for better heat projection

WARNING !
FOR OUTDOOR USE,
MUST PLUG INTO
GFCI OUTLET.



FOR CEILING MOUNTED AND WALL MOUNTED HEATER

THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE.

We cannot be liable for any damages caused by failure to observe these instructions.

IMPORTANT INSTRUCTIONS

When using electrical appliances, it is crucial to follow basic precautions to minimize the risk of fire, electric shock, and personal injury. Please read and adhere to all instructions provided before installing or using this heater. Here are important safety guidelines to keep in mind:

1. Carefully read and understand all instructions and warnings in the user manual before operating the heater.
2. To avoid burns, do not touch hot surfaces of the heater with bare skin. Keep combustible materials such as furniture, pillows, bedding, papers, clothes, and curtains at least 3 feet (0.9 m) away from the front, sides, and rear of the heater.
3. Exercise extreme caution when using the heater around children, elderly individuals, or person with disabilities. Never leave the heater unattended while it is in operation.
4. If the heater malfunctions, immediately disconnect the power at the service panel and have it inspected by a qualified electrician before using it again.
5. To disconnect the heater, turn off the controls and the power supply to the heater circuit at the main disconnect panel. If an internal disconnect switch is provided, operate it accordingly.
6. Do not insert any foreign objects into the ventilation or exhaust openings of the heater, as this can cause electric shock, fire, or damage to the unit.
7. Avoid blocking the air intakes or exhaust vents of the heater, as this can lead to overheating and potential fire hazards.
8. Do not use the heater in areas where flammable substances such as gasoline, paint, or flammable vapors or liquids are present.
9. Use the heater only as described in the provided manual. Using the heater in any other way not recommended by the manufacturer can result in fire, electric shock, or personal injury.
10. Keep combustible materials, including furniture, papers, clothes, and curtains, at least 3 feet (0.9 m) away from the front, sides, and rear of the heater to reduce the risk of fire.

Ensure that the heater is connected to properly grounded outlets only for safe operation.

To ensure proper installation and safe operation of the heater, please consider the following guidelines:

For ceiling-mounted installation, ensure that the heater is not mounted closer than 19.7 inches (or 0.5 m) to any vertical surface.

For wall-mounted installation, maintain a minimum distance of 19.7 inches (or 0.5 m) from both vertical and horizontal surfaces.

Additionally, take caution to mount the heater with the bottom at least 2.4 meters (or approximately 7.9 feet) above the floor or ground level.

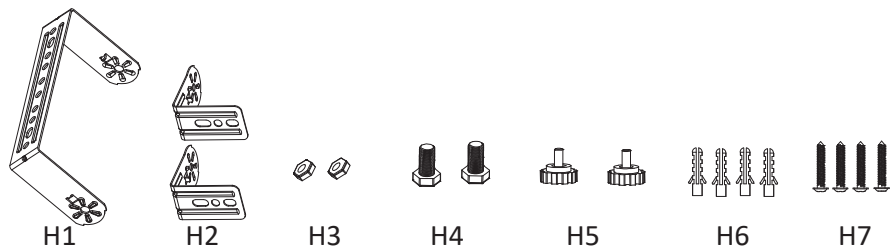
Following these guidelines will help to ensure optimal performance, prevent potential hazards, and maintain safe operation of the heater.

SAVE THESE INSTRUCTIONS

CEILING OR WALL MOUNTED INSTRUCTION

(Recommend 2 Persons)

Required hardware contents (Included)



	Desc.	Qty
H1	U-bracket	1
H2	L-bracket	2
H3	Nut	2
H4	Screw	2

No.	Desc.	Qty
H5	Handle screw	2
H6	Plastic anchor	4
H7	Long Screw	4

1. Remove the protection bracket from the heater by taking off the 2 screws on the protection bracket, using a screwdriver as shown in Fig - 1b.

Note: Keep the protection bracket, 2 gaskets and 2 screws for future Freestanding assembly.

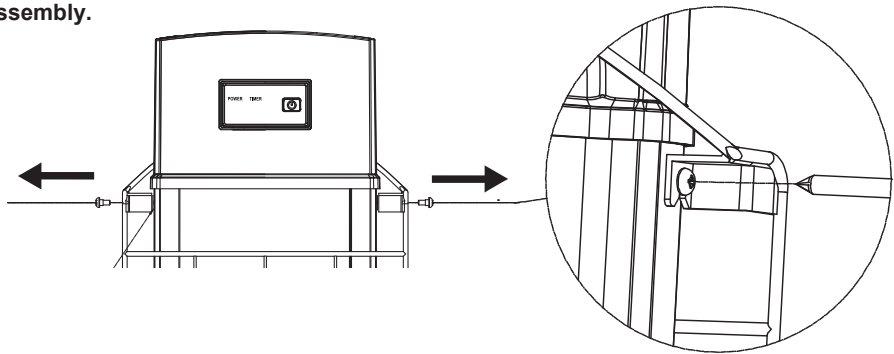
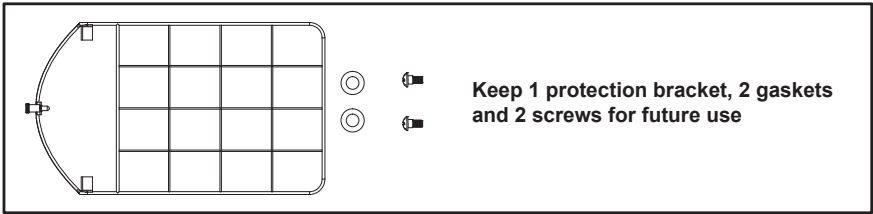


Fig - 1b



2. Assemble the U-bracket (H1) and two L-brackets (H2) using two nuts (H3) and two screws (H4), as shown in Fig - 2b.

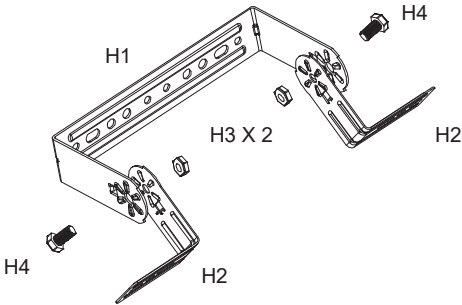


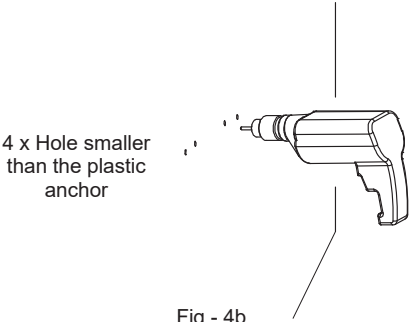
Fig - 2b

3. Mark the mounting locations using the provided dimensions in Fig - 3b or use the holes on the U-bracket (H1) as a guide. For ceiling and wall mounting, maintain a distance of at least 2.4m / 94.5" between the heater and the floor.

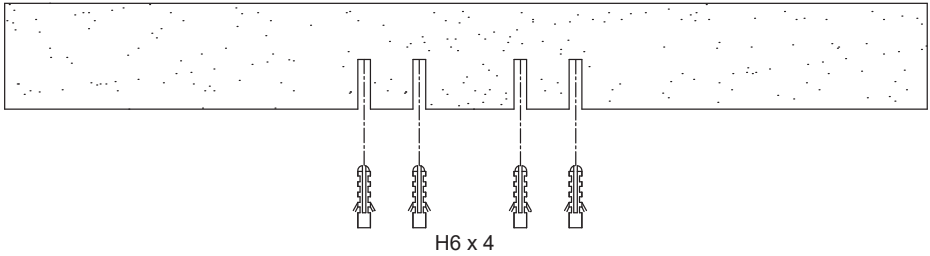


Fig - 3b

4. Drill holes with a drill bit of smaller diameter than the plastic anchor (H6), as shown in Fig - 4b.



5. Insert the pointed end of the plastic anchor (H6) into the holes, as shown in Fig - 5b. Tap the anchor with a hammer until it is flush with the wall. **(If installing the heater onto a solid supporting structure, the plastic anchor is not required.)**



4 x Plastic anchors flushed into 4 x holes

Fig - 5b

6. Use a screwdriver to mount the assembled U-bracket (H1) to the anchors using 4 screws (H7), as shown in Fig - 6b.

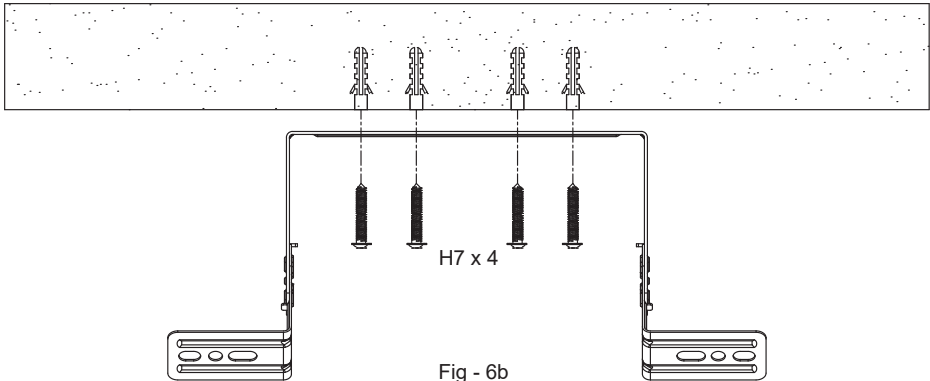


Fig - 6b

7. Attach the cover to the bottom of the heater to disable the tip-over function, as shown in Fig - 7b.

Note: If the cover is misplaced or lost, use the alternative plastic stopper on the heater to disable the tip-over function, as shown in Fig - 7c.

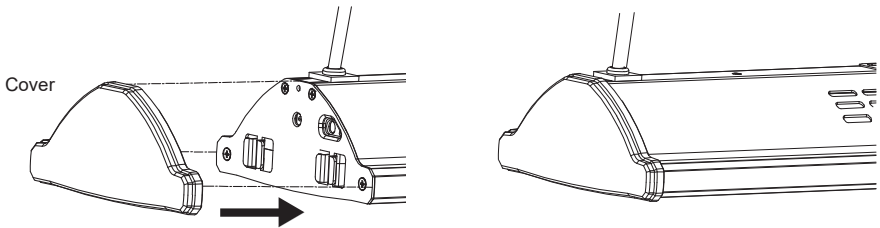


Fig - 7b

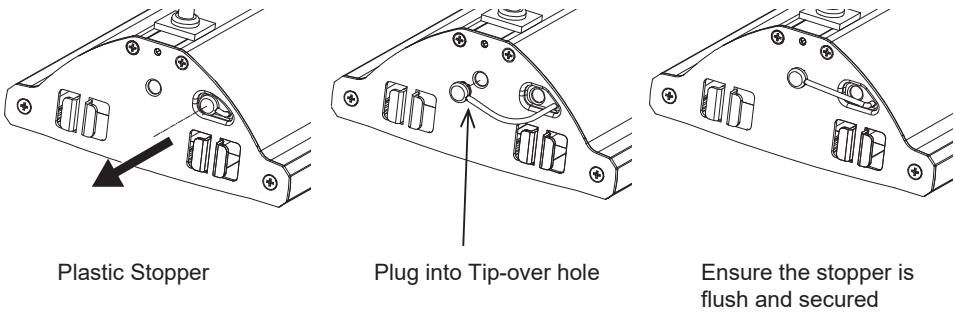


Fig - 7c

8. This step may require two people to complete. Use the 2 handle screws (H5) to fasten the heater onto the L-brackets, as shown in Fig - 8b.

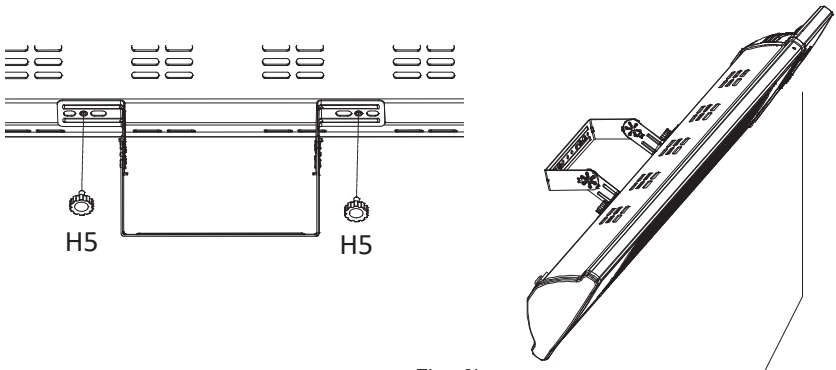


Fig - 8b

9. Mounting Height: Maintain a distance of at least 2.4m / 94.5" from the heater to the ground, as shown in Fig - 9b and Fig - 9c.



For ceiling-mounted installation: Do not install the heater closer than 19.7 inches (or 0.5 m) to a vertical surface.

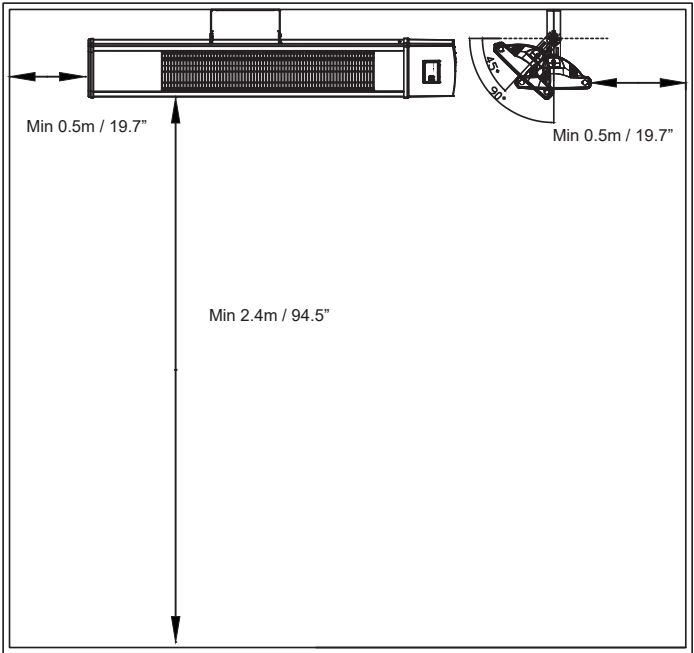


Fig - 9b

The heater's working angle ranges between 45° and 90°.

For wall-mounted installation: Do not install the heater closer than 19.7 inches (or 0.5 m) to either a vertical surface or a horizontal surface.

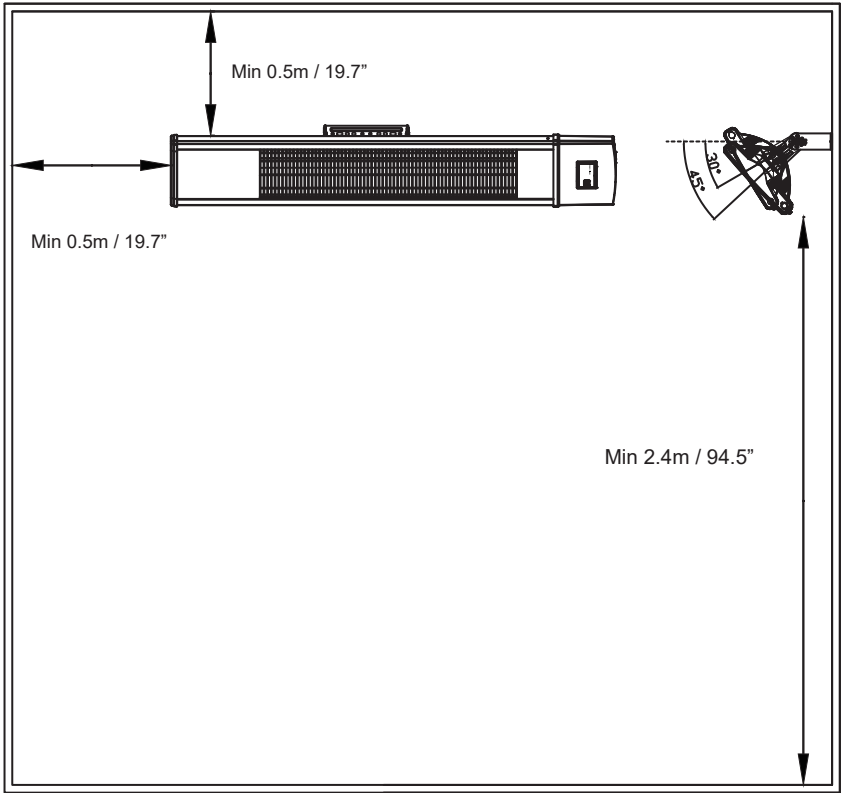
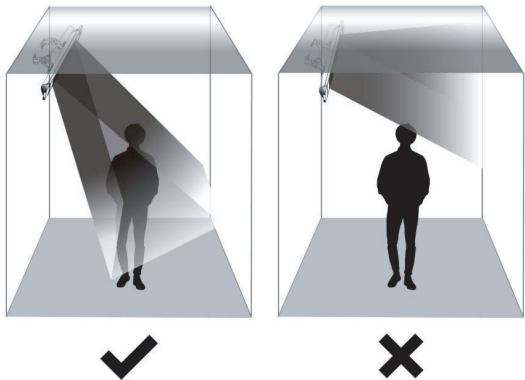


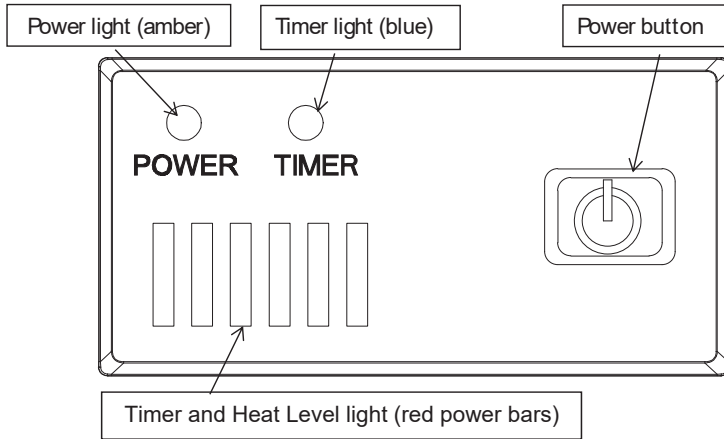
Fig - 9c

For the best heating coverage, ensure that the mounting angle falls with in the range of 30° to 45°.



OPERATING INSTRUCTIONS

The heater must be properly installed before use. Plug the unit into a grounded AC outlet, ensuring that the power supply matches the rating. If operating the heater in an outdoor environment, make sure to plug it into GFCI outlets.



The power bars have dual functions. When the Timer LED is NOT FLASHING, the power bar represents power levels.

Six power bars on: High heat level 1500W
Four power bars on: Middle heat level 1200W
Two power bars on: Low heat level 900W

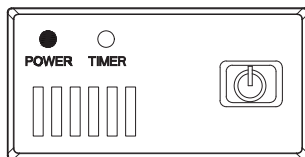
When the Timer LED is FLASHING, the power bars represent the timer setting. Each bar represents a one-hour interval.

One power bar on + Timer blue light is Flashing: 1H timer setting

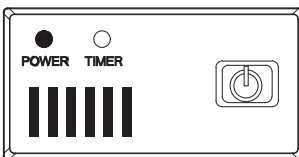
Note: every power bar is for 1 Hour.

OPERATION ON THE HEATER - POWER BUTTON

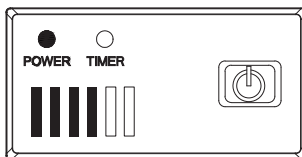
Only for power level setting



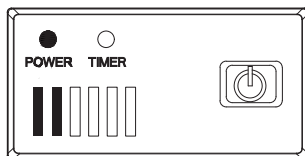
1. Standby
(Amber light on)



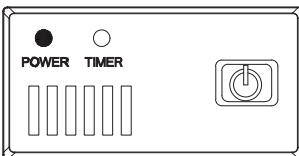
2. High heat level 1500W
(Six power bar light on)



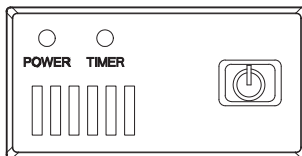
3. Middle heat level 1200W
(Four power bar light on)



6. Low heat level 900W
(Two power bar light on)



5. Standby
(Amber light on)



4. Power off
(All light off)

REMOTE CONTROL INSTRUCTIONS

POWER BUTTON

1. Power on (High heat level)
2. Power off (Power light off)

UP BUTTON

Increase the heat level every increment
(Low heat level - Middle heat level - High heat level)
Increase the timer 1 H every increment (00H-06H)

DOWN BUTTON

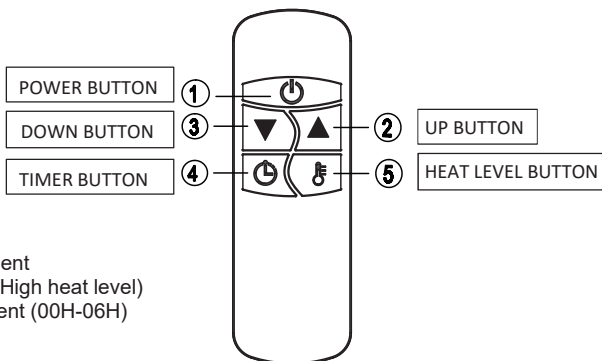
Decrease the heat level every increment
(High heat level - Middle heat level - Low heat level)
Decrease the timer 1 H every decrement (06H-00H)

HEAT LEVEL BUTTON

Use to initiate the heat levels change, press the Heat Level Button then use the UP/DOWN buttons to increase or decrease the heating level.

TIMER BUTTON

To set the timer, press the timer button, and the blue light will start flashing. Use the UP/DOWN buttons to set the countdown timer. The timer range is from 0H to 6H, with each increment representing one hour. The heater will automatically turn off when the timer expires. Set the time to 0H to disable the timer. When the Timer blue light is flashing, the power bar represents the set timer time.



INSERTING BATTERIES (INCLUDED)

To insert batteries into your remote control, follow these steps:

1. Flip the backside of your remote control and locate the battery cover.
2. Pull out the battery cover to expose the battery compartment.
3. Insert 2 AAA/Alkaline type batteries, paying attention to the instructions and the correct polarity (+/-) indicated inside the battery compartment.
4. Close the battery cover securely.
5. When it's time to change the batteries, repeat the same process as described above.

Please note that the specific instructions may vary depending on the model of your remote control, so it's always a good idea to consult the user manual for detailed instructions.

NOTICE:

When replacing the batteries, make sure to use the same type of batteries to maintain optimal functionality of your heater. Using different types of batteries may result in the heater not functioning properly.

If the heater is not going to be used for an extended period of time, it is recommended to remove the batteries from the remote control. This precaution helps prevent battery leakage, which can potentially damage the remote control.

Additionally, it is important to keep the remote control away from water or any liquids. Exposing the remote control to water or liquids can cause damage to the internal components and affect its proper functioning.

Caution:

When the appliance is not going to be operated for a long period of time, during cleaning or maintenance, or when relocating the heater, it is important to turn off the heater and unplug it from the electrical connection.

Performing periodic inspections and removing dirt and contaminants will help ensure the safe operation of the equipment.

TROUBLESHOOTING

1. Check if the power cord is plugged into an electrical outlet. If it's not plugged in, please plug it in securely.
2. Check if there is electricity to the main fuse. Ensure that the main fuse is not blown or tripped.
3. If the power amber light is flashing, it indicates that the control unit has activated the over-temperature protection. Check the installation clearances around the heater to ensure proper ventilation. Allow the heater to cool down for at least 15 minutes before attempting to restart it. Once cooled, restart the heater and check if the issue persists.

MAINTENANCE INSTRUCTIONS

Attention! Giving careful and regular maintenance to your heater according to our instructions is of utmost importance to ensure long and efficient operation of your appliance.

It is recommended to check the cleanliness of the reflector and IR-filament of your heater at least once a month. If necessary, follow the cleaning and maintenance instructions provided.

The frequency of these checks may need to be increased depending on the amount of dust present in the environment.

While cleaning the appliance, visually inspect the reflector, wire, and frame for any signs of deformation. If any deformation is observed, please contact the service team for assistance.

Similarly, visually inspect the power cord and plug while cleaning the appliance. If there is any deformation or damage, it is advisable to contact the service team for further evaluation and potential repair or replacement.

CLEANING

To clean your infrared heater and ensure its efficient operation, please follow the steps below:

For your safety, unplug the power cord of the heater before starting the cleaning process.

Allow the heater to cool down completely before proceeding with the cleaning.

To clean the outer housing of the heater, use a soft, damp cloth. If necessary, you may use a mild detergent, but ensure that no liquid enters the heater. After cleaning, dry the unit thoroughly with a soft cloth. Please note that it's important to avoid letting any liquids enter the heater.

Avoid using alcohol, gasoline, abrasive powders, furniture polish, or rough brushes to clean the heater. These substances may cause damage or deterioration to the surface of the heater.

Do not submerge the heater in water or any other liquid. It can cause serious damage to the appliance.

Once the cleaning is complete, wait until the heater is completely dry before plugging it back in and using it.

By following these cleaning guidelines, you can help maintain the efficiency and trouble-free operation of your infrared heater for many years.

Storage: Store the heater in a cool, dry location when not in use to prevent dust and dirt build-up. Wrap the power cord with ties. Use packaging cartons to store.

ATTENTION:

Please note the following important guidelines for the maintenance and safety of your heater:

Always disconnect the heater from the electrical power source and allow it to cool down before attempting to perform any maintenance or repairs.

If the heater has accumulated dust or dirt inside the unit or around the heating element, it is recommended to have the unit cleaned by a qualified service agent. Do not operate the heater in this condition, as it may pose a safety risk.

The only normal maintenance required is cleaning the external surfaces of the heater. Use a soft cloth to clean the outer surfaces and avoid using any abrasive materials or cleaners that may damage the unit.

Avoid touching the heating element with bare fingers, as residue from your hands can affect the lifespan of the lamp. If accidental contact occurs, remove any finger marks using a soft cloth moistened with mentholated spirit or alcohol.

It is important not to attempt to repair or adjust any electrical or mechanical functions of the heater. The heater does not contain any user-serviceable parts. In the event of damage or breakdown, it should be returned to the manufacturer or its authorized service agent for repair.

Damaged parts should be replaced by the manufacturer, service agent, or a similarly qualified person to avoid any potential hazards.

It is recommended to have a disconnecting switch incorporated in the fixed wiring to ensure safe operation and easy power isolation of the heater.

Following these guidelines will help ensure the safe and proper operation of your heater.

RECYCLING

At the end of the electrical product's lifespan, it is important not to dispose of it as household waste. Instead, please consider recycling the product where recycling facilities are available.

To properly dispose of the product, check with your Local Authority or retailer for specific recycling advice and guidelines in your country. They can provide information on the nearest recycling facilities or programs for electrical products.

By recycling the product, you contribute to environmental sustainability and help prevent any potential negative impacts on the environment.

Warranty Information

Register your product at our website:



Or visit DrHeaterUSA.com/register-your-heater

At Dr. Heater USA, we are committed to bringing top-quality alternative & supplemental heating products to our customers.

Note: It is normal to experience a trace of smoke or odor when operating the unit for the first time. There is no need to be alarmed. This occurrence is due to a drop of oil that may have fallen on the interior coils during the manufacturing process. As the unit heats up, the oil will quickly evaporate, and the smoke or odor should dissipate. You should not encounter this issue again in subsequent uses.

How long is the warranty?

This heater is accompanied by a one-year limited component warranty. If you encounter any issues with your unit and it does not appear to be working properly, we recommend contacting our service center for assistance. You can reach us by calling 1-800-317-1688.

Before making the call, we encourage you to visit our service-related website at **www.DrHeaterUSA.com**. Here, you can find troubleshooting tips and service instructions that may help resolve the issue you're experiencing.

Our dedicated service center is available to provide support and ensure that any necessary repairs or replacements are promptly addressed within the terms of the warranty.

Dr. Infrared Heater
860 Mahler Rd, Burlingame CA 94010
Tel: 1-800-317-1688
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