



Titan™ Gas Sauna Heater



Model: **SL1**

Installation & Operation Manual



**IMPORTANT:
READ ENTIRE MANUAL BEFORE OPERATING!**



SL1-REV1 | 09/2026

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Signal Word Definitions:

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

⚠ IMPORTANT

Indicates important information related to installation or operation that is not directly related to personal injury.

Read and follow all safety messages using these signal words throughout this installation manual.

INTENDED USE:

This heater is designed for use as a sauna heater when installed and operated in a properly constructed sauna room or SaunaTrekker sauna tent in accordance with this manual. The installation location must be appropriately sized and provided with the required ventilation. The gas cylinder and gas supply connections must be located outside the sauna room or tent.

⚠ IMPORTANT

When installed indoors, this heater may be used only within a properly constructed sauna room that is appropriately sized and ventilated as specified in this manual. The required exhaust (upper ventilation) opening must discharge directly to the outdoors and shall not terminate into another room or other enclosed interior area. Do not install or operate this heater in living areas or any indoor space not intended for sauna use.

This heater must be installed only as described in this manual and operated only under the conditions specified, including all clearance, ventilation, and fuel supply requirements.

PROHIBITED USE AND MISUSE:

⚠ WARNING

CARBON MONOXIDE (CO) HAZARD

- Do not operate this heater unattended.
- Do not operate this heater without continuous ventilation as specified in this manual.
- Do not block or restrict required ventilation openings or airflow paths.
- Do not use this heater in any space that does not provide the ventilation required by this manual.

⚠ WARNING

MODIFICATION AND DAMAGE HAZARD

- Do not modify, bypass, remove, or disable any heater component, regulator, hose, burner, air opening, vent, or safety device.
- Do not operate the heater if it has been damaged during transport or handling.
- Do not use replacement parts other than those specified by the manufacturer.

Modifications or damaged components can result in fire, explosion, or unsafe operation.

⚠ IMPORTANT OXYGEN DEPLETION SENSOR (ODS)

This heater is equipped with an Oxygen Depletion Sensor (ODS) designed to shut off the gas supply if the oxygen level in the surrounding air drops below a preset threshold.

- The ODS is a supplemental safety device.
- The ODS does not replace required ventilation.
- Required ventilation must be maintained at all times during operation.
- Turn the heater off immediately after use and whenever the sauna room is unattended.

Failure to maintain ventilation may result in unsafe combustion conditions.

CARBON MONOXIDE (CO) SYMPTOMS AND REQUIRED ACTION:

⚠ WARNING CO POISONING CAN OCCUR WITHOUT WARNING

Carbon monoxide exposure may cause symptoms including, but not limited to:

- Headache
- Dizziness or weakness
- Nausea or vomiting
- Sleepiness
- Confusion or impaired judgment

If any of these symptoms occur:

1. Shut off the heater immediately.
2. Exit the sauna and move to fresh air.
3. Seek immediate medical attention if symptoms persist, worsen, or if carbon monoxide exposure is suspected.

Do not re-enter the sauna room until the cause of the condition has been identified and corrected.

⚠ IMPORTANT INSTALLER RESPONSIBILITIES

The person installing this heater is responsible for the following:

- Reading and understanding this entire installation manual before beginning.
- Verifying that the installation location supports all required clearances.
- Ensuring the propane gas cylinder and all gas supply equipment are installed outside the sauna room and connected in accordance with this manual.
- Confirming that the required ventilation can be provided and maintained during operation.
- Ensuring all safety instructions in this manual are followed.

Failure to install or operate this heater in accordance with this manual may result in fire, carbon monoxide exposure, serious injury, or death.

⚠ WARNING CARBON MONOXIDE (CO) / ASPHYXIATION HAZARD

Under normal operating conditions, this heater is designed to operate safely and does not produce hazardous levels of carbon monoxide (CO) when the ventilation requirements specified in this manual are properly maintained.

Carbon monoxide is a colorless, odorless gas that can be produced by fuel burning appliances if operated improperly or without adequate ventilation.

- Provide continuous ventilation at all times as specified in this manual.
- Ensure required ventilation openings remain unobstructed during operation.
- Never sleep in a sauna room while the heater is operating.
- Never leave the heater operating unattended.
- If headache, dizziness, weakness, nausea or vomiting, sleepiness, or confusion occurs:
 - Shut off the heater immediately.
 - Exit the sauna and move to fresh air at once.
 - Seek medical attention if symptoms persist or worsen.

Failure to follow these instructions can result in serious injury or death.

⚠ WARNING FIRE HAZARD / REQUIRED CLEARANCES

- Maintain all specified safety distances and clearances from walls, ceiling, benches, doors, guard rails, and all combustible materials.
- Install the heater only on a stable, level, non-combustible base as specified in this manual.
- Do not place or store towels, clothing, paper products, wood, fuels, aerosols, or other combustible materials on or near the heater.

Failure to maintain required clearances can result in fire or property damage.

⚠ CAUTION HOT SURFACE / BURN / SCALD HAZARD

Heater surfaces, sauna stones, and nearby metal components become extremely hot during operation and remain hot for an extended period after the heater is shutdown.

Contact with hot surfaces can cause serious burns.

- Use the included heat resistant gloves whenever handling the heater, sauna stones, or metal components.
- Inspect gloves regularly for signs of wear or damage. Do not use gloves that have tears, holes, or other defects.
- When adding water to the sauna stones, pour slowly to reduce the risk of sudden steam release and scalding.

⚠ WARNING GAS SUPPLY / EXPLOSION / LEAK HAZARD

This heater is designed for use with propane (LP) gas only. Do not use any other fuel type.

- Use only manufacturer approved components for propane (LP).
- Do not operate the heater with any gas type other than that specified on the rating label.

For Propane (LP) Operation:

- The propane cylinder and regulator assembly must be installed outside the sauna room, upright, secured, and located in a well ventilated area.
- Route the hose to prevent tripping hazards and protect it from abrasion, kinking, crushing, or contact with hot surfaces.

Gas Supply Inspection and Leak Response:

- Inspect all gas lines, hoses, regulators, and fittings before each use.
- If the odor of gas is detected:
 - Shut off the gas supply immediately.
 - Extinguish all open flames and keep ignition sources away.
 - Ventilate the area and do not operate the heater until the leak has been located and corrected.

Failure to follow these instructions can result in fire, explosion, serious injury, or death.

BEFORE YOU INSTALL

Read and understand this entire section before beginning installation. Proper site selection, heater configuration, fuel preparation, and ventilation planning are essential to safe operation in both sauna tent and sauna installations.

Installer Qualifications:

Installation of this heater must be performed by a person familiar with fuel burning appliances and general gas safety practices.

For cabin installations, local building codes or regulations may require installation by a licensed or qualified professional. Verify applicable requirements before installation.

CONFIRM INSTALLATION TYPE AND LOCATION

Determine whether the heater will be installed in a sauna room, sauna cabin, or approved sauna tent, and confirm that the installation location meets all applicable requirements.

Sauna Cabin Installation:

This heater may be installed in a sauna cabin when all installation, clearance, ventilation, and fuel supply requirements specified in this manual are met.

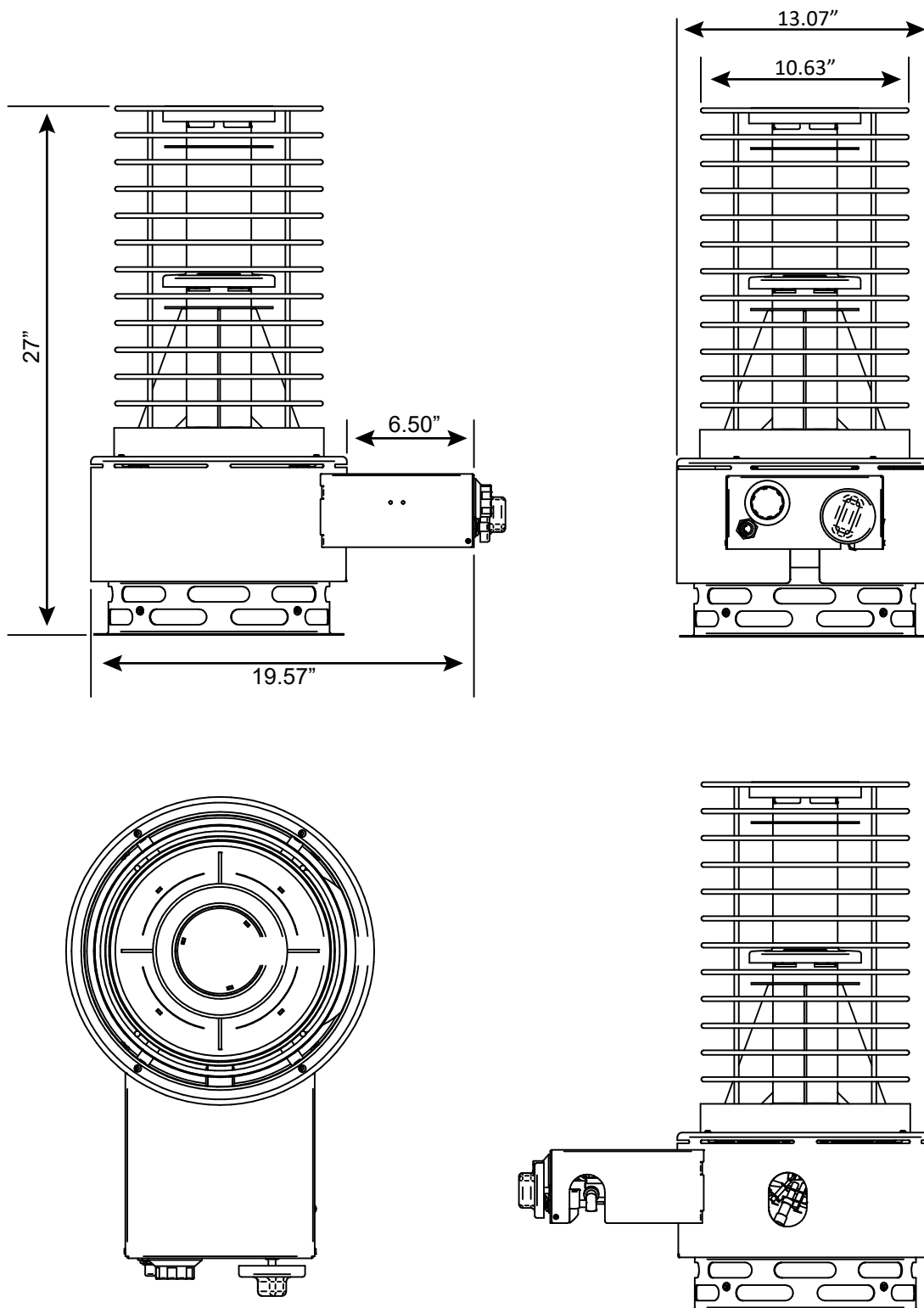
- Required safety clearances to walls, ceilings, benches, doors, and all combustible materials can be maintained.
- Ventilation openings specified in this manual can be provided and remain unobstructed during operation.
- The heater can be placed on a stable, level, non-combustible base.
- Gas supply routing can be installed safely without direct exposure to heat, sharp edges, or mechanical damage.
- An accessible manual gas shutoff valve can be provided outside the sauna room.

Do not install the heater in fixed sauna cabins that cannot meet the clearance or ventilation requirements in this manual.

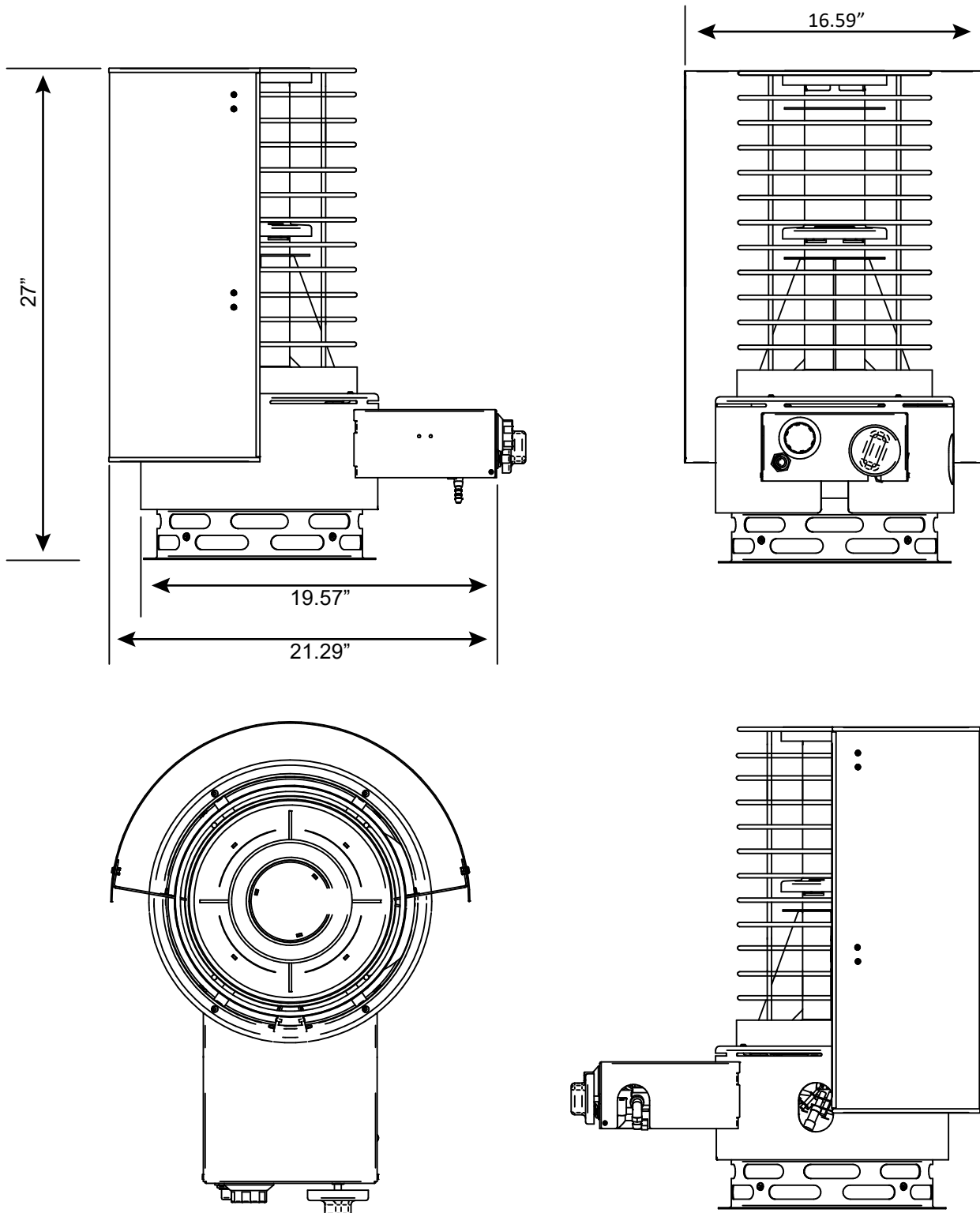
SaunaTrekker Sauna Tent Installation:

- The heater is intended for installation only in the SaunaTrekker sauna tent specifically designed and supplied for use with this heater.
- Use only the sauna tent provided by the manufacturer.
- Do not install the heater in third party, modified, or substitute tents.
- The SaunaTrekker tent has been designed to accommodate required safety clearances, ventilation openings, and heater placement.
- Verify that the tent is properly assembled according to the tent installation instructions before installing the heater.
- Ensure the ventilation openings provided in the tent remain open and unobstructed during heater operation.
- Place the heater on a stable, level, non-combustible base within the tent as specified in this manual.
- Do not alter, seal, or modify the tent structure in a way that affects ventilation, clearances, or safe operation.

Heater Dimensions - Without Heat Shield



Heater Dimensions - With Optional Heat Shield



SPECIFICATIONS

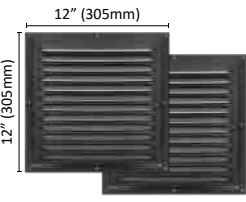
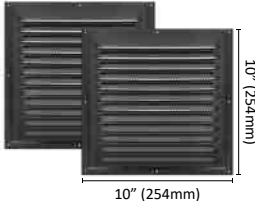
Model	SL1
Fuel Type	Propane (LP)
BTU Output	4 Kw (13,648 BTU) to 8.1 Kw (27,600 BTU)
Sauna Volume	Uninsulated Sauna: 140-350 cu ft Insulated Sauna: 140-425 cu ft
Heat Settings	High / Low
Stone Capacity	44 lbs
Material	Stainless Steel - 310S / 304
Heater Weight (without stones)	33 lbs
Safety	Internal Tip Switch / Oxygen Depletion System (ODS)

ACCESSORIES

(PURCHASED SEPARATELY)

WHAT'S IN THE BOX

Heater Base / Burner (1)	Heat Chamber (1)	Stone Basket (1)
		
Propane Regulator & 6ft Hose (1)	Gloves (1)	Heater Guard (1)
		

Intake Vent Set	Heat Shield
	
Exhaust Vent Set	
	

Sauna Cabin

Minimum safety distances must be maintained at all times to reduce the risk of fire, heat damage, or burns. All safety distances are measured from the outside surface of the sauna stone basket.

Floor Requirements:

- The heater shall be installed only on a non-combustible floor surface.
- Do not place the heater directly on wood floors or wooden floor grates.
- If the floor is combustible, a non-combustible floor protection must be installed.

Control Accessibility:

When positioning the heater, ensure that the controls are easily accessible. Controls must not be obstructed by benches, walls, or other fixtures.

Fuel Line Routing:

- The fuel supply line must be routed away from the heater and hot surfaces.
- Maintain a minimum clearance of 12" (305 mm) between the fuel line and the heater.

Failure to follow these requirements may result in unsafe operation and shall prohibit installation.

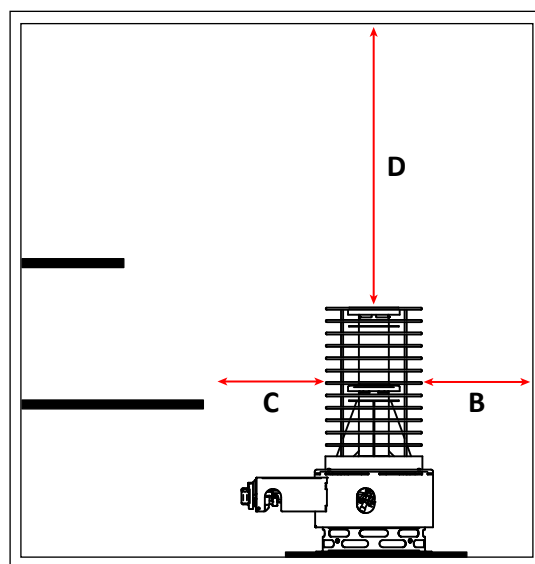
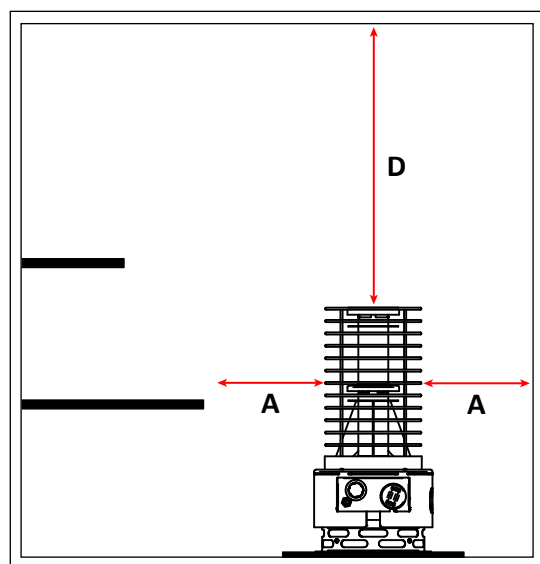
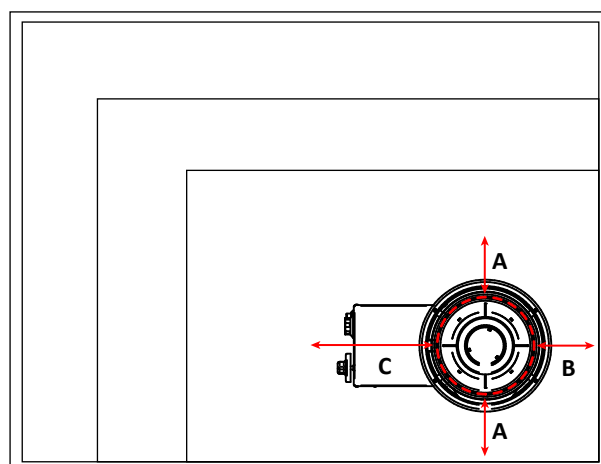
Required Safety Distances : (Without Heat Shield)

A - Left / Right: 6" (150 mm)

B - Rear: 6" (150 mm)

C - Front: 16" (406 mm)

D - Ceiling: 50" (1,270 mm)



Sauna Cabin

Safety distances can be decreased by using the optional Heat Shield. All safety distances with the heat shield are measured from the outside surface of the basket.

Even with the heat shield the floor requirements, control accessibility, and fuel line routing must be followed.

With the heat shield installed the heater must not be positioned that the heat shield touches the wall or bench surface.

⚠ IMPORTANT Maintain a minimum clearance of 1" (25.4 mm) between the heat shield and any wall or combustible surface. The heat shield must not touch or be attached directly to any combustible material.

Required Safety Distances: (With Heat Shield)

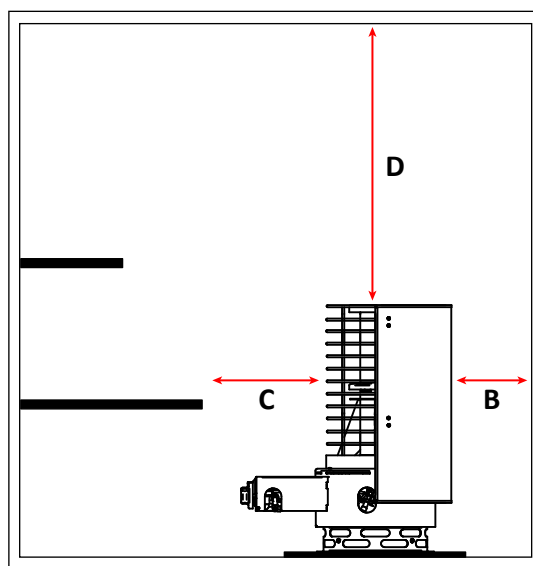
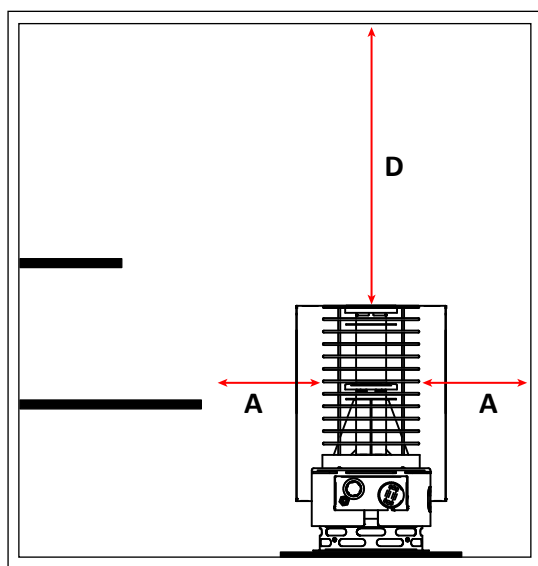
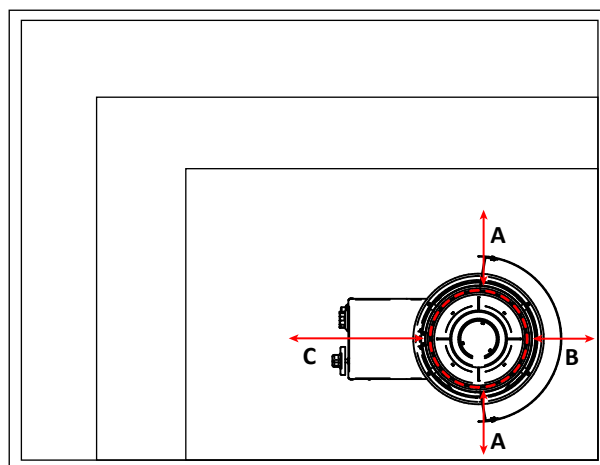
Distance Measured from Basket to Wall:

A - Left / Right: 4" (102mm)

B - Rear: 4" (102 mm)

C - Front: 16" (406 mm)

D - Ceiling: 50" (1,270 mm)



SaunaTrekker Tent

⚠ WARNING

Place heater on a non-combustible surface (e.g., stone paver) only. Do not place directly on grass.

Minimum safety distances must be maintained at all times to reduce the risk of fire, heat damage, or burns. All safety distances are measured from the outside surface of the sauna stone basket.

The sauna heater must only be installed in the corner of the tent that contains the lower ventilation intake, see Figure 2.

Installing the heater in any other position within the tent will result in improper airflow and incorrect operation.

Required Safety Distances (Figure 1):

- A - Left / Right: 6" (150 mm)
- B - Rear: 6" (150 mm)
- C - Front: 16" (406 mm)

⚠ IMPORTANT

These distances apply with or without the use of the heat shield.

Figure 1

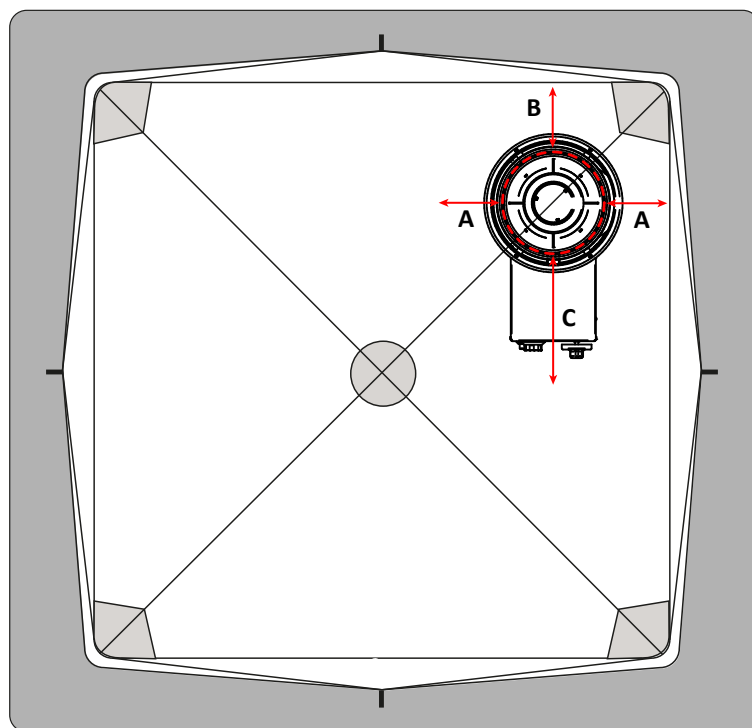
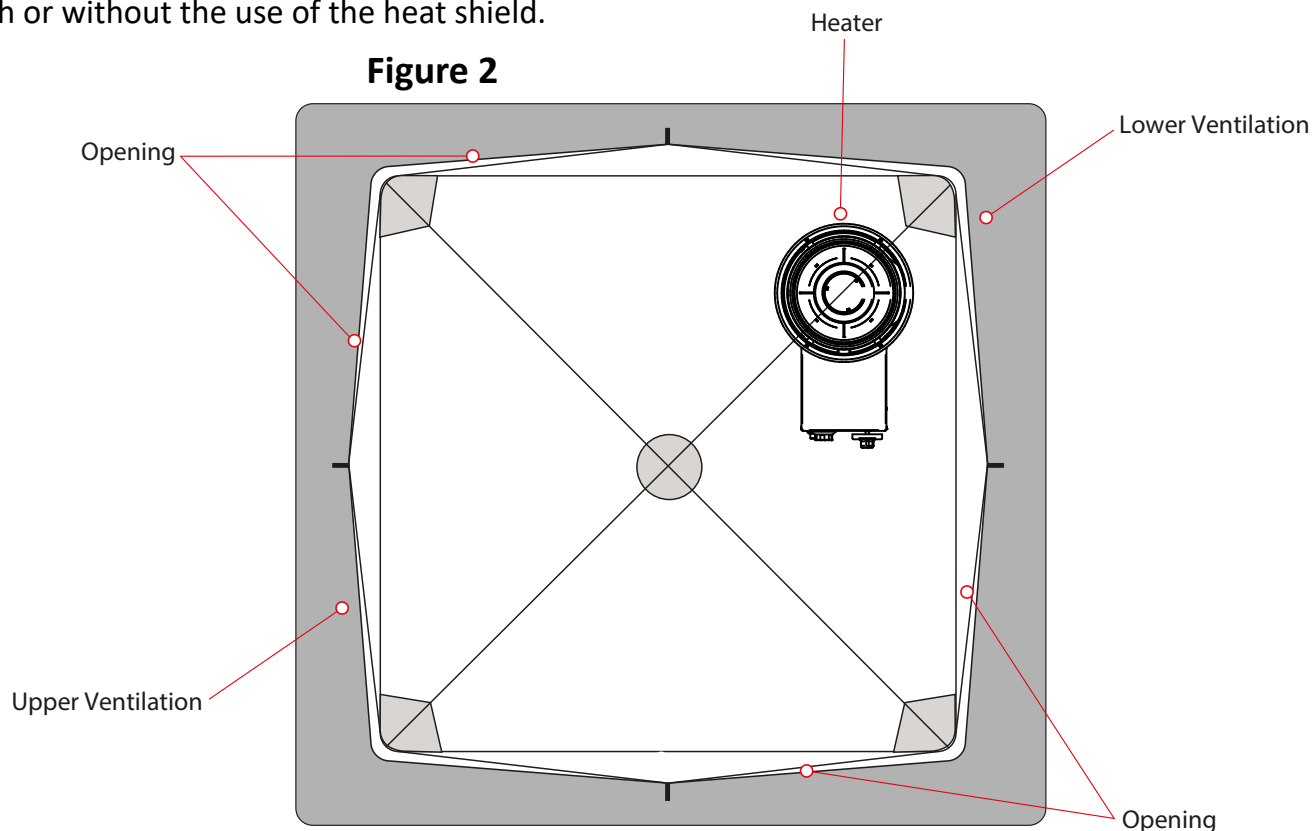


Figure 2



Ventilation Requirements

Proper ventilation is a required for safe heater operation. Always maintain the ventilation openings specified below.

Minimum Required Ventilation Openings:

The installation must include ventilation openings that meet or exceed the minimum free airflow areas.

Lower Ventilation Opening (Air Intake)

- Minimum Free Area: 54 in² (350 cm²)
- Round Vent: 9" diameter
- Rectangular Vent: 6 in. x 9 in.

Upper Ventilation opening (Air Outlet):

- Minimum Free Area: 39 in² (250 cm²)
- Round Vent: 8"
- Rectangular Vent: 5" x 8"

Note: The listed vent sizes provide gross opening dimensions. If screens, louvers, or grilles are used, increase the vent size as needed to maintain the required minimum free area for the intake and for the exhaust.

⚠ IMPORTANT

Natural ventilation is required for proper operation. Mechanical ventilation systems are not recommended, as they may interfere with combustion air supply, affect ventilation, and result in improper heater operation.

Freedom Sauna Tent

- Ventilation openings are factory positioned and sized for proper airflow.
- Install the heater in the corner containing the lower air intake opening.
- Do not cover, modify, or adjust the ventilation openings.

Sauna Cabin

- Provide a lower air intake opening and an upper air outlet (exhaust) opening to promote natural ventilation. The upper vent must be located on the wall opposite the heater and positioned near the ceiling.
- Verify that prefabricated cabins meet the minimum ventilation requirements listed above.
- Adjustable vents must remain fully open (100%) during heater operation.
- Do not close, cover, or restrict ventilation openings while the heater is operating.
- It is recommended to purchase the intake and exhaust vent covers.

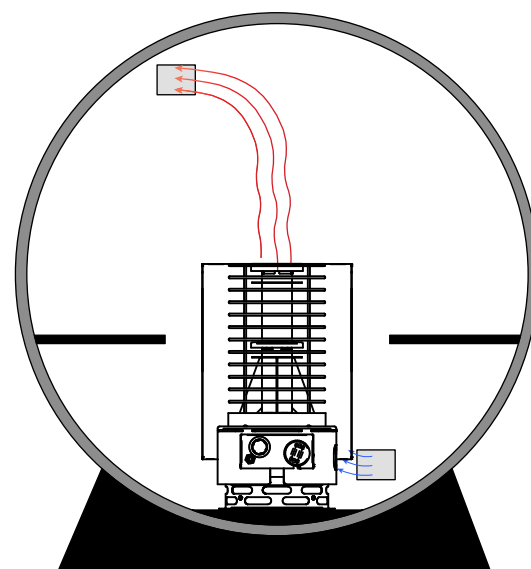
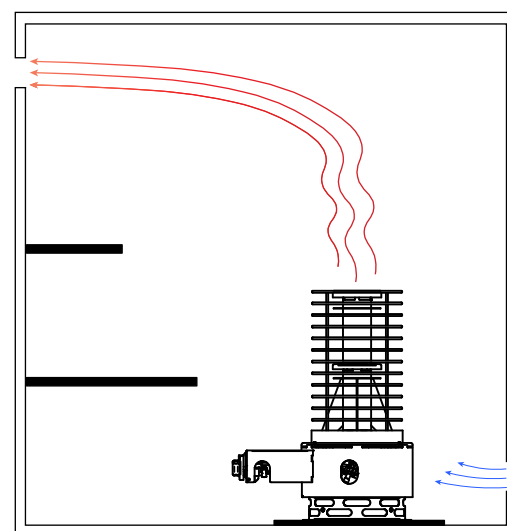
⚠ WARNING

VENTILATION REQUIRED

FAILURE TO PROVIDE AND MAINTAIN ADEQUATE VENTILATION WILL RESULT IN UNSAFE OPERATING CONDITIONS.

⚠ IMPORTANT

EXHAUST VENTILATION MUST DISCHARGE DIRECTLY TO THE OUTDOORS AND SHALL NOT TERMINATE INTO ANOTHER ROOM OR OTHER ENCLOSED AREA OF THE BUILDING.



Heater Assembly

Assemble the heater in the correct order before connecting the fuel supply or operating the unit.

Step 1 - Heater Base / Burner

- Place the heater base/burner in the final installation location.
- Ensure the heater base is positioned on a stable, level, non-combustible base.



Step 2 - Heat Column

- Place the heat chamber onto the burner.
- Ensure the heat chamber is fully seated.



Step 3 - Stone Basket

- Take the stone basket and slide onto the heat column.
- Turn the stone basket clockwise to secure onto the heater base.



Installing Heater Guard (Included)

Attach the heater guard onto the outer basket as shown in the image below. Installation height can be adjusted if needed. Consider installing additional heater guards to restrict contact with the stone basket



Heat Shield (Purchased Separately)

Heat shield is optional and will limit radiant heat and improve safety distances when installed.



Stone Installation

Proper stone placement is important for heater performance, heat distribution, and safe operation.

Stone Placement Guidelines

- Arrange stones so they are stacked somewhat tightly, while leaving small gaps for airflow.
- Avoid large gaps between stones, as this can increase direct radiant heat.
- Do not tightly compact or force stones into place.
- Stones can be stacked in a single layer over the heat column cap.
- Stones should be situated for secure placement within the stone cage.



Fuel Connections

This section provides instructions for connecting the heater to the fuel supply.

Fuel connection shall only be performed after the heater has been installed, positioned, and all clearance and ventilation requirements have been verified.

Fuel Connection Requirements:

- All connections shall be made using manufacturer specified or approved components.
- Ensure all fittings are clean, properly aligned, and securely tightened.
- After completing the connection, all joints shall be checked for leaks using an approved leak detection solution.

Propane (LP) Connection

Propane Supply Requirements:

- The heater uses propane (LP) gas and requires a low pressure regulator for operation.
- The regulator is provided with each heater and shall be used as supplied.
- The regulator shall be connected directly to the propane cylinder valve.
- Do not substitute or modify the regulator or hose assembly provided with the heater.
- Use only manufacturer approved hose and regulator components.

Propane Cylinder Location

SaunaTrekker Sauna Tent Installation:

- The propane cylinder shall be installed outside the sauna tent.
- The hose shall enter the tent without being pinched or exposed to sharp objects.

Sauna Cabin Installation:

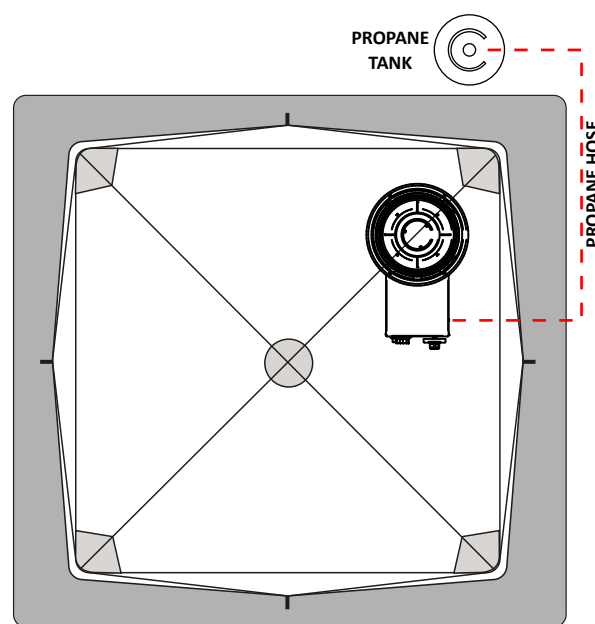
- The propane cylinder shall be installed outside the sauna cabin in a well ventilated location.
- Provide safe and protected routing for the hose into the cabin.

Propane Hose Routing

Route the hose away from the heater and all hot surfaces. Maintain a minimum clearance of 12" (305 mm) from the heater.

Protect the hose from abrasion, kinking, or mechanical damage.

Do not route the hose through areas where it may be walked on or impacted.



Leak Testing

A leak test shall be performed after any fuel connection and before operating the heater.

Leak Test Procedure:

1. Ensure all control valves are in the OFF position.
2. Open the gas valve.
3. Apply a leak detection solution to all connections. This can be made using 1 part liquid dish soap to 3 parts water in a spray bottle.
4. Observe for bubbles indicating a leak.
 - If bubbles are present, shut off the gas supply, tighten the connection, and repeat the test.
 - Do not operate the heater until all connections are verified leak free.

Leak testing shall be performed:

- After initial installation
- After reconnecting a propane cylinder
- After any service or maintenance

Final Fuel Connection Check

Before proceeding to operation:

- Confirm all connections are secure and leak free.
- Verify proper routing of hoses or gas lines.
- Ensure clearance from hot surfaces is maintained.
- Confirm access to the manual gas shutoff valve.

Proceed to Operation (page 19) only after all fuel connection steps have been completed.

Operation Overview

This heater is intended to heat the sauna space and is designed to operate as specified in this manual when properly used.

Proper operation depends on:

- Correct installation and assembly
- Proper ventilation
- Correct fuel connection and supply

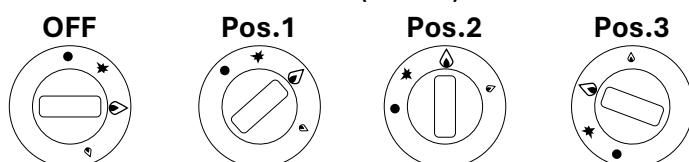
Before Each Use:

- Verify the heater is properly assembled. Refer to page 15 “Heater Assembly” and page 16 “Stone Installation”
- Upper and lower ventilation openings are fully open and unobstructed
- The heater is positioned correctly and stable
- Safety distances are maintained
- Fuel connections are secure

Do not operate the heater if any of the above conditions are not met.

Lighting the Heater:

1. Turn on the gas supply to the heater.
2. Set the timer to the desired run time (maximum of 60 minutes).
3. Turn the control knob to Position 1 (Pos. 1).
4. Press and hold the control knob, then press the igniter until the pilot lights.
 - Continue holding the control knob until the pilot remains lit.
 - If the pilot goes out, repeat the steps above.
5. After the pilot is lit, turn the control knob to the desired setting:
 - High Heat - Position 2 (Pos. 2)
 - Low Heat - Position 3 (Pos. 3)



Normal Operation:

- Adjust the control knob as needed to maintain the desired temperature.
- Allow approximately 15 to 20 minutes for the sauna to reach temperature.
- Allow heater to reach operating temperature, then slowly ladle small amounts of water onto the stones as needed.
- Use only clean water.

Shutdown Procedure:

- Turn the control knob to the OFF position.
- Turn off the gas supply.
- Allow the heater to cool for a minimum of 30 minutes before handling.

⚠ CAUTION

Always use the provided gloves when handling the heater even after cooled down.

General Heater Maintenance

Regular maintenance supports consistent heater performance and extends the life of the heater. All maintenance activities should be performed with the heater turned off and fully cooled.

General Maintenance:

- Keep the heater clean and free of dust, dirt, and debris.
- Ensure the airflow paths and openings remain unobstructed.
- Inspect the heater regularly for signs of wear or damage.

Routine Inspection:

Periodically check the following

- Burner area for debris or blockage
- Gas hose for cracks, wear, or damage
- Connections for tightness
- Sauna stones

Do not operate the heater if any component is damaged.

Burner Cleaning:

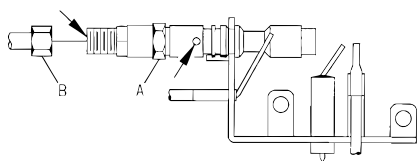
- Clean using a soft brush or cloth.
- If needed, use a mild soap and water solution and wipe dry.
- Use a thin wire to clean the burner openings, if needed.

⚠ IMPORTANT

Do not use sharp objects that may damage the burner openings.

ODS (Oxygen Depletion Sensor) Cleaning

- Over time, the small opening in the ODS may collect dust or debris.
- Compressed air can be used to clean the openings.



⚠ IMPORTANT

Do not insert objects into the ODS opening.

Gas Hose and Components

- Inspect the gas hose regularly for signs of wear or damage.
- Replace the gas hose every 2 years, or sooner if damage is observed.
- Ensure all connections remain secure and leak free.
- Use only manufacturer approved replacement components.

Troubleshooting

This section provides guidance for identifying and resolving common operating issues.

If a condition cannot be resolved using the steps below, discontinue use and contact technical support.

Issue	Possible Cause	Corrective Action
Heater does not ignite	Gas supply is off Air in gas line Control knob not held long enough	Turn on gas supply Repeat ignition steps Hold control knob for 60-90 seconds
Pilot will not stay lit	Control knob released too quickly Low gas supply ODS requires cleaning	Hold control knob longer Check fuel supply Clean ODS
Heater produces low heat output	Low heat setting Improper stone placement Ventilation affecting performance	Set to High (Pos. 2) Re-stack stones properly Ensure ventilation is fully open
Uneven heat or excessive radiant heat	Stones loosely stacked Insufficient stone coverage	Re-stack stones more tightly
Gas odor detected	Loose connection Damaged hose	Shut off gas supply Tighten connections Perform leak test Do not operate until resolved
Heater shuts off during operation	Limited airflow affecting ODS Heater tilted (tip switch activated) Gas supply interruption	Ensure vents are fully open (100%) Verify heater is stable and level Check fuel supply and connections
Igniter does not spark	Ignition malfunction Moisture or debris	Retry ignition Use long lighter Replace igniter
Sauna does not reach temperature	Sauna too large Heat loss (structure/airflow) Low heat setting	Verify sauna size Reduce heat loss where possible Increase heat setting
Heater will not operate after movement (tip switch)	Heater not level Tip switch activated	Turn heater OFF Place on level surface Restart using lighting procedure

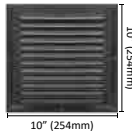
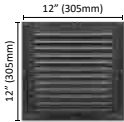
Replacement Parts

Only use the manufacturer approved parts listed below when servicing or maintaining the heater.

Part Description	Part Number	Image
Stone Basket 14 Ring	214-50703	
Radiant Heat Chamber	214-2023-0131	
Timer (60 minute)	214-SW5643	
Timer Knob	214-SW5643-2	
Burner Control Knob	214-1000-11	
Igniter	214-1000-12	
Tip Switch	214-SP5639	
Oxygen Sensor (ODS)	214-1000-13	

Replacement Parts

Only use the manufacturer approved parts listed below when servicing or maintaining the heater.

Part Description	Part Number	Image
Burner (full assembly with burner and inner housing)	214-1000-01	
Heater Guard (with clips)	214-130028	
Heat Shield (with clips)	214-130012	
Left Clip (For Heat Shield & Safety Guard)	214-130306	
Right Clip (For Heat Shield & Safety Guard)	214-130305	
Propane Hose & Regulator	214-130029	
Gloves	214-130196	
Stones, (requires 2 boxes)	214-127729	
Exhaust Vent Set 10" x 10" (Inside and Outside Vents)	214-130560	
Intake Vent Set 12" x 12" (Inside and Outside Vents)	214-130561	



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