



THE EMBER

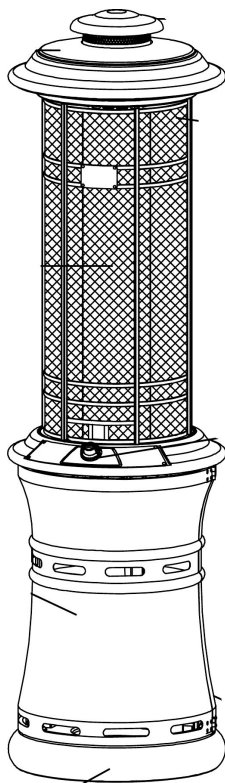
RAVELLO
LOUNGE HEATER

LHI-EMBER

OWNER'S MANUAL

SHIPS ASSEMBLED · FINAL SETUP REQUIRED

OUTDOOR PATIO HEATER · LIQUID PROPANE OR NATURAL GAS



DANGER

If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

WELCOME

Thank you for choosing Lava Heat Italia.

Our founder discovered the original flame tower in Italy and brought it to America, selling the first one door to door to restaurants in Beverly Hills. That heater became a collection, and the collection became a company specified today by Forbes Five-Star hotels, Michelin-starred restaurants, and hospitality groups in more than fifty countries.

We have never been content to import what already exists. Every heater we build is designed here and engineered to be measured — which is why we publish TruBTU™, our own verification standard for what a heater actually delivers at distance, rather than the theoretical output printed on a specification sheet.

The Ember is the collapsible member of the Ravello Lounge collection, inspired by the aged wine barrels of the Italian countryside: its heat-exchange tube telescopes down into the body for storage and lifts out, tool-free, when the evening begins. It arrives assembled and needs only a few minutes of setup; the pages that follow cover unpacking, setup, fuel connection, safe operation and care. Please read this manual before you begin, and keep it for reference.

LAVA HEAT ITALIA

DANGER — CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide, which has no odor. Using it in an enclosed space can kill you. Never use this appliance in an enclosed space such as a camper, tent, car or home.

WARNING

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. A propane cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.

WARNING: FOR OUTDOOR USE ONLY

CSA/ANSI Z83.26 · CSA 2.37 — GAS-FIRED OUTDOOR INFRARED PATIO HEATERS

SPECIFICATIONS

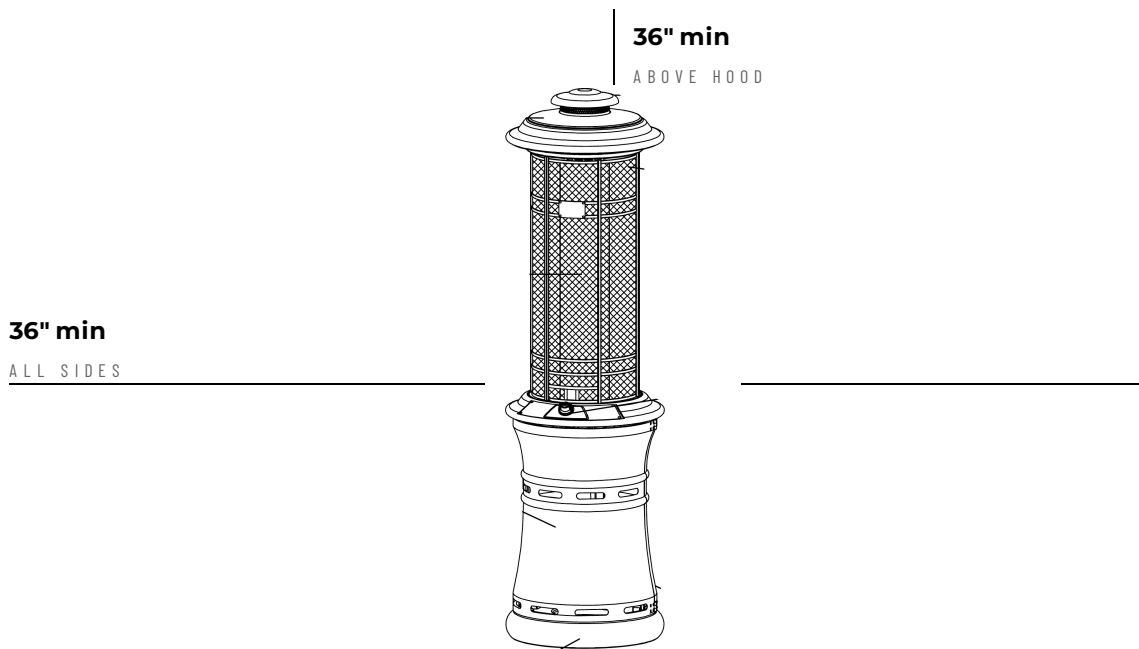
Model	The Ember (LHI-EMBER)
Input rating	36,000 BTU/hr
Heat radius / coverage	6 ft · approx. 113 sq ft
TruBTU™ comfort zone, 50°F evening	68° at 2 ft · 64° at 4 ft · 60° at 6 ft
Fuel	Liquid propane or natural gas — set at the factory
Manifold pressure	LP 11 in W.C. · NG 7 in W.C.
Inlet supply pressure (LP)	5 psi min · 250 psi max
Ignition	Electronic pilot ignition, with manual Clima-Comfort controls · one AA battery
Safety	Flame failure device and anti-tilt switch
Run time	Approx. 10 hours per 20 lb cylinder (LP)
Dimensions	22 × 22 × 70 in extended (36 in collapsed) · 55 lb
Materials	Telescoping heat-exchange tube with full-height safety guard · marine-grade 6061-T6 aluminum
Certification	CSA certified to ANSI Z83.26 and CSA 2.37
Minimum clearances	36" from the sides · 36" from the top
Packaged	23 × 23 × 53 in · 70 lb

SAFETY INFORMATION

Please read and understand this entire manual before attempting to assemble, operate or install the product. Keep this manual for future reference and to educate new users of this product. This manual should be read in conjunction with the labeling on the product. Safety precautions are essential when any mechanical or gas-fueled equipment is involved, and are necessary when using, storing and servicing.

Installation of this appliance at altitudes above 2000 ft (610 m) shall be in accordance with local codes, or in the absence of local codes, ANSI Z223.1/NFPA 54 or CSA B149.1.

CLEARANCES



Minimum clearances from any combustible surface or material.

CODES AND STANDARDS

United States	Installation must conform with local codes or, in their absence, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54.
Canada	Installation must conform with the Natural Gas and Propane Installation Code, CSA B149.1, or the Propane Storage and Handling Code, B149.2.
Cylinder standard	Cylinders must comply with U.S. DOT specifications for LP-gas cylinders or CAN/CSA-B339, with a listed Overfilling Prevention Device (OPD) and a protective collar around the valve.

DANGER — CARBON MONOXIDE HAZARD

This heater is a combustion appliance. All combustion appliances produce carbon monoxide during combustion. Used and maintained in accordance with all warnings and instructions, this product produces extremely minute, non-hazardous amounts. Do not block air flow into or out of the heater. Carbon monoxide poisoning produces flu-like symptoms, watery eyes, headaches, dizziness, fatigue and possibly death. You cannot see it and you cannot smell it. If these symptoms are present during operation, get fresh air immediately. For outdoor use only.

DANGER — EXPLOSION AND FIRE HAZARD

Keep solid combustibles such as building materials, paper or cardboard a safe distance from the heater. Provide adequate clearances around air openings into the combustion chamber. Never use the heater in spaces which contain volatile or airborne combustibles. Minimum clearances from combustible materials: 36" (91 cm) from the sides and 36" (91 cm) from the top.

DANGER — PROPANE STORAGE

Never store propane near high heat, open flames, pilot lights, direct sunlight or where temperatures exceed 120°F (49°C). Propane vapors are heavier than air and can accumulate in low places. If you smell gas, leave the area immediately. Never install or remove a cylinder while the heater is lit, near a flame, or while it is hot to touch. Store the cylinder outdoors in a well-ventilated space out of reach of children.

WARNING — BURN HAZARD

Never leave the heater unattended when hot or in use, and keep it out of reach of children. Alert children and adults to the hazards of high surface temperatures. Do not touch or move the heater for at least 45 minutes after use. Do not hang clothing or other flammable materials from the heater.

WARNING — CALIFORNIA PROPOSITION 65

This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

WARNING — SMALL BATTERIES

This product contains a small battery. Swallowed batteries can cause a choking hazard. Seek immediate medical attention if a battery is swallowed or inhaled. Keep children away from small batteries.

CAUTION — SERVICE SAFETY

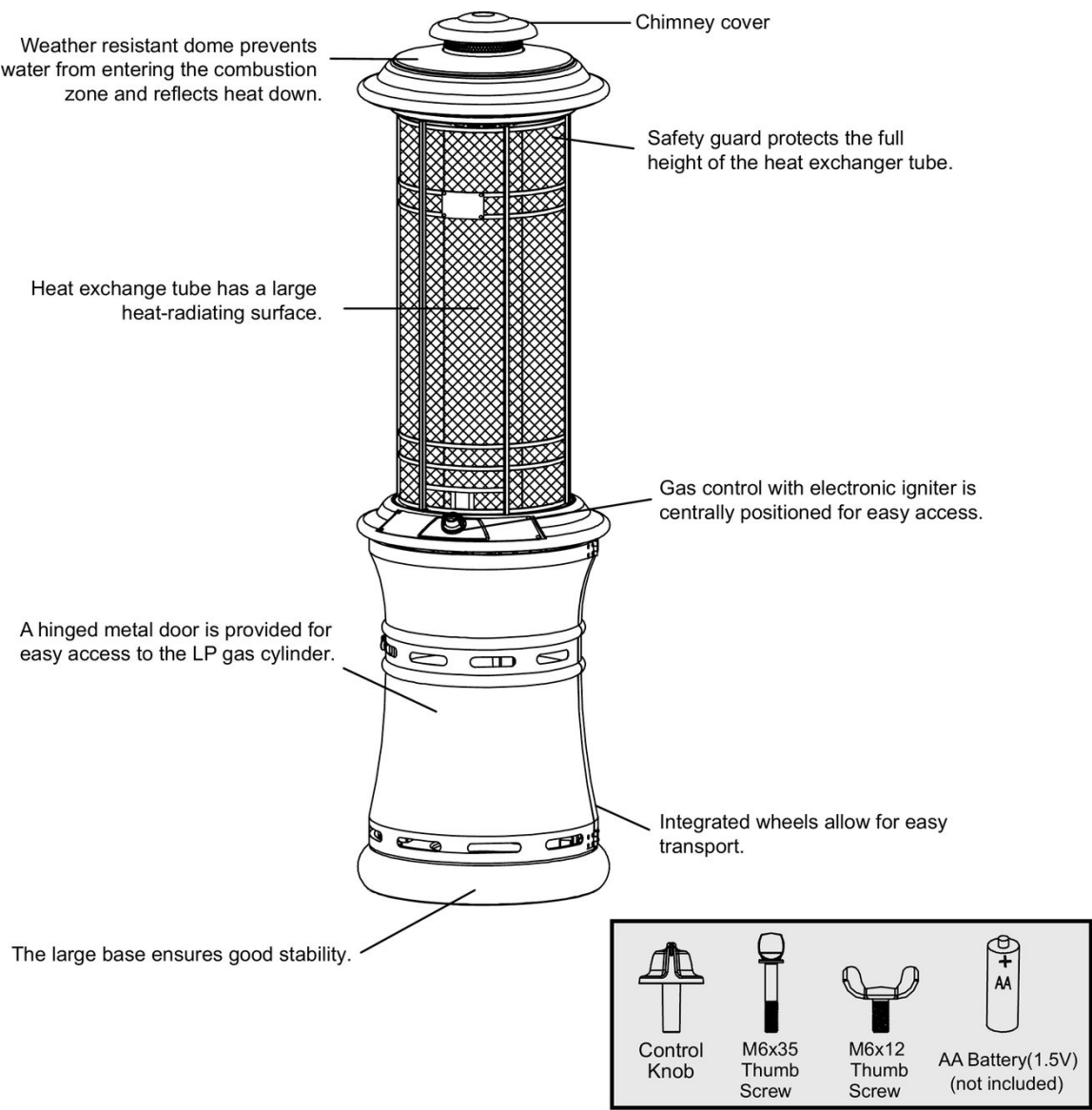
Keep all connections and fittings clean and make sure the cylinder valve outlet is clean. During assembly, check all connections and fittings for leaks using soapy water — never use a flame. Use as a heating appliance only. Never alter it in any way.

CAUTION — SHELTER

An appliance may be installed with shelter no more inclusive than: (a) with walls on all sides but no overhead cover; (b) within a partial enclosure with an overhead cover and no more than two side walls; or (c) within a partial enclosure with an overhead cover and three side walls, as long as 30 percent or more of the horizontal periphery is permanently open.

PACKAGE CONTENTS

The Ember arrives assembled, with its heat-exchange tube collapsed into the body for shipping. The control knob is stored on the inside of the access door, and the two thumb screws are packed with this manual. Remove all transit protection and check that the heater is undamaged. If anything is missing or damaged, do not use the heater — contact Lava Heat Italia.



Ember heater, assembled and collapsed	1
Control knob (stored on the door)	1
AC1 · M6 × 12 thumb screw	1
AC2 · M6 × 35 thumb screw	1
Gas hose, regulator and fixing chain, fitted	1

Not supplied: a standard 20 lb (9 kg) propane cylinder and one AA battery (1.5 V). A protective cover is sold separately.

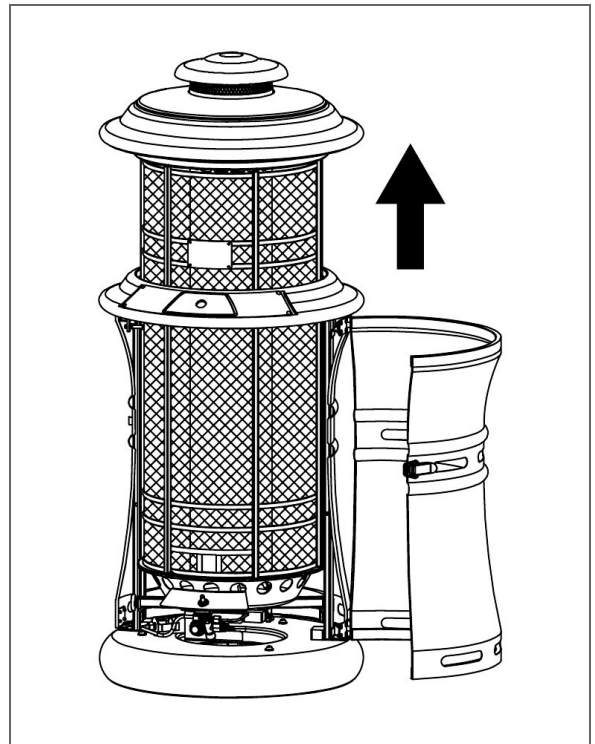
SETUP

Estimated time: approximately 15 minutes, no tools required. Steps 1 to 3 raise and lock the heat-exchange tube, step 4 fits

1 Raise the heat-exchange tube

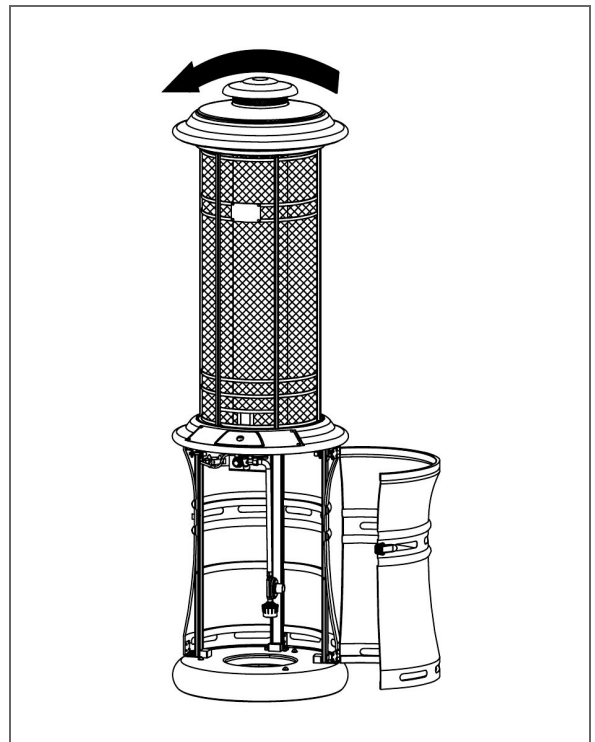
Stand the Ember upright on a level surface and partially open the access door.

Lift the weather dome carefully upward until the whole heat-exchange tube is exposed.



2 Lock the tube

With the tube fully extended, rotate it counter-clockwise until it stops. This engages the lock and seats the dome at operating height.



3 Fit the thumb screws

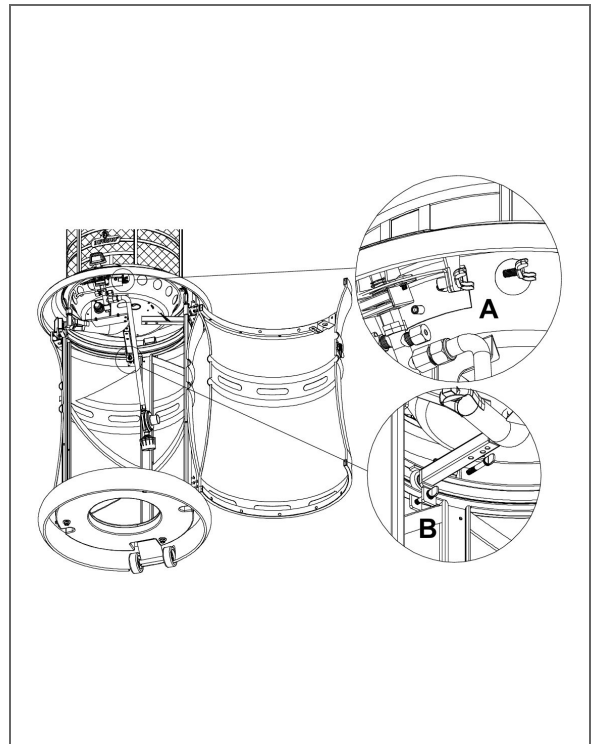
Insert the M6 × 35 thumb screw (AC2) into hole A and the M6 × 12 thumb screw (AC1) into hole B.

Tighten both by hand until snug.

Do not over-tighten.

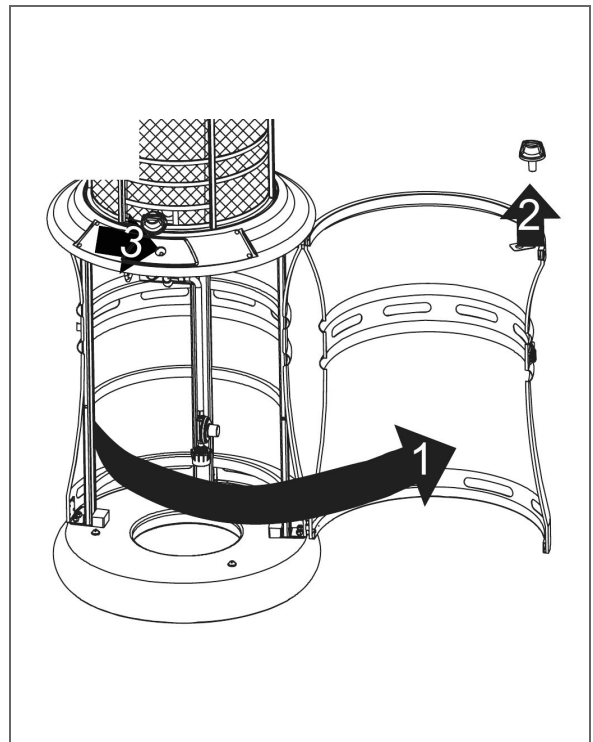
HARDWARE USED

AC2	M6 × 35 thumb screw	× 1
AC1	M6 × 12 thumb screw	× 1



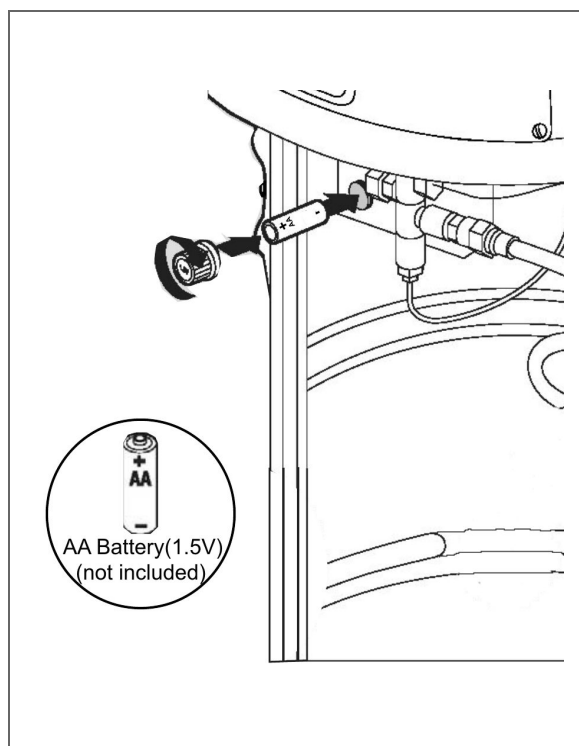
4 Fit the control knob

Open the access door fully, take the control knob from the inside of the door, and press it onto the control stem until it seats.



5 Install the battery

Insert one AA battery (1.5 V, not supplied) into the compartment below the control panel, observing the polarity marks.



RAVELLO

LOUNGE HEATER

THE EMBER

36,000 BTU/HR

A 6 ft. radius of directed warmth — roughly 113 sq ft. of usable comfort.

DESIGNED TO DISAPPEAR

A telescoping heat-exchange tube collapses the Ember to 36 in for storage.

CLIMA-COMFORT CONTROLS

Electronic pilot ignition with manual variable control, low through to high.

BUILT FOR SALT AIR

Marine-grade 6061-T6 aluminum, 500 hours of ASTM B117 salt-spray testing.

CONCEALED CYLINDER

The 20 lb tank sits behind a hinged door; integrated wheels roll it into place.

TEN HOURS

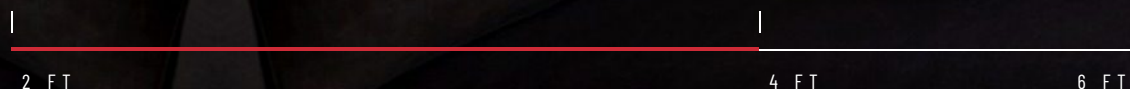
A full evening's run, and then some, from a single 20 lb cylinder.

COMFORT ZONE
ON A 50°F EVENING

68°

64°

60°



TRUPTU



6 FT RADIUS

Frame and structure carry a lifetime limited warranty.

FUEL CONNECTION — PROPANE

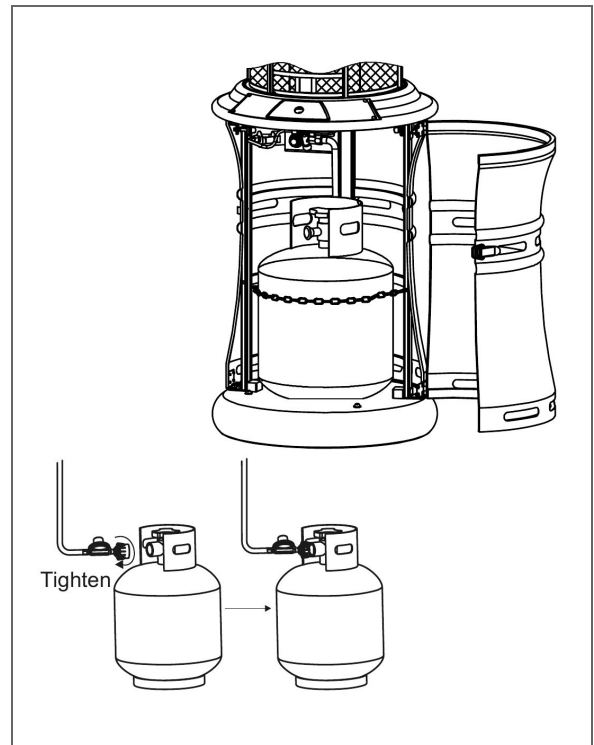
For units configured for liquid propane (LP). If your Ember is configured for natural gas, turn to the next page. Check the rating plate inside the cylinder enclosure to confirm the fuel before you connect any supply.

6 Connect the propane cylinder

Open the access door, stand a standard 20 lb (9 kg) propane cylinder in the base and secure it with the fixing chain.

Screw the regulator onto the cylinder valve and tighten by hand. Do not cross-thread the connection.

Make sure the hose does not touch any hot surface, leak test every connection, then close the door.



CYLINDER REQUIREMENTS

- Standard 20 lb (9 kg) propane vapor-withdrawal cylinder, constructed and marked per U.S. DOT specifications for LP-gas cylinders, or CAN/CSA-B339.
- Listed Overfilling Prevention Device (OPD), a protective collar around the valve, and a connection compatible with the appliance.
- Never use a dented, rusted or damaged cylinder. Never fill a cylinder beyond 80% of capacity.
- Storage of the heater indoors is permissible only if the cylinder is disconnected and removed. Store cylinders outdoors, out of reach of children, with dust caps fitted.

NATURAL GAS INSTALLATION

Natural-gas units connect to a fixed supply line; no cylinder is used.

PROFESSIONAL INSTALLATION ONLY

Connection to the natural-gas supply must be made by a qualified, licensed gas technician in accordance with local codes — or, in their absence, ANSI Z223.1/NFPA 54 (US) or CSA B149.1 (Canada).

INSTALLATION REQUIREMENTS

- Supply pressure: 7 in W.C. nominal natural gas at the appliance inlet.
- Use only the natural-gas hose, regulator and fittings supplied or specified by Lava Heat Italia for this model.
- Install a dedicated, accessible manual shut-off valve in the supply line within reach of the heater.
- Route the hose so it cannot be strained, pinched or touched by hot surfaces, and secure the heater so the connection cannot be pulled.
- Leak test every joint made during installation before first lighting (see Leak Check).
- Purge air from the supply line at first start, then follow the lighting procedure.

OPERATING ON NATURAL GAS

Lighting, operation and care are the same as for propane once the supply is connected. Wherever this manual says to open or close the cylinder valve, open or close your supply shut-off valve instead. Close the shut-off valve whenever the heater is not in use and before any cleaning or service.

WARNING — NO FIELD CONVERSION

Fuel configuration is set at the factory. Never connect a natural-gas unit to propane, or a propane unit to natural gas — the injector and valve are fuel-specific. Confirm the fuel on the rating plate inside the cylinder enclosure before connecting any supply.

LEAK CHECK

Check every gas connection you make — hose, regulator and cylinder — before first use, after connecting a new cylinder, and whenever a connection has been loosened or removed. Perform all leak tests outdoors, extinguish all open flames and never smoke while testing.

1. Make 2–3 oz of leak check solution — one part liquid dish soap to three parts water.
2. Make sure the heater is OFF.
3. Apply several drops of solution where the hose attaches to the regulator and where the regulator connects to the cylinder (LP) — or to every joint made during installation (NG).
4. Open the cylinder valve (LP) or supply shut-off valve (NG) and look for bubbles.

If bubbles appear at any connection there is a leak. Close the gas immediately. If the leak is at the hose-to-regulator connection, tighten it and test again; if bubbles continue, contact Lava Heat Italia for a replacement hose. If the leak is at the regulator-to-cylinder connection, disconnect, reconnect and test again; if bubbles persist, the cylinder valve is defective and the cylinder should be returned to its place of purchase. Whenever gas connections are loosened or removed, perform a complete leak test.

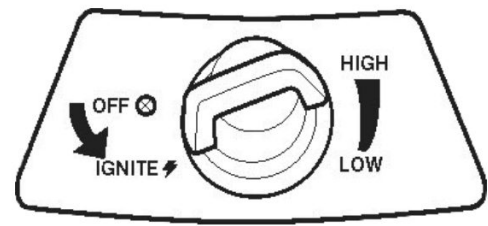
BEFORE TURNING THE GAS ON

- The heater is outdoors, on a level surface, with the clearances on page 4.
- The surrounding area is free of combustible materials, gasoline and other flammable vapors or liquids, and nothing obstructs air ventilation.
- All gas connections are tight and leak-free, the cylinder enclosure is clear of debris, and any component removed during assembly or service is refitted.
- The heater has been inspected before use. If relighting a hot heater, always wait at least 5 minutes.

LIGHTING

The Ember has a pilot flame that must be lit before the main burner. Do not operate the heater until you have read and understood all of the precautions in this manual. If relighting a hot heater, always wait at least 5 minutes.

- A. Make sure the control knob is at OFF.
- B. Open the cylinder valve (LP) or supply shut-off valve (NG) fully.
- C. Push the control knob in and turn it counter-clockwise to IGNITE.
- D. Keep the knob pressed for 30 seconds while the igniter pulses and the pilot lights.
- E. Release the knob and turn it to set the heat between LOW and HIGH.



If the pilot does not light, turn the knob to OFF and wait 5 minutes for gas vapors to clear, then repeat steps C to E. If at any time you smell gas, or the burner will not light within a minute, turn the gas off and wait 5 minutes before trying again.

The burner may be noisy when first lit; turn the knob to LOW, then up to the heat you want. Smoke and odor from manufacturing oils are normal on first use and clear in about 30 minutes. In normal operation the emitter glows red with tongues of blue flame and no thick black smoke. If black deposits build up on the emitter or dome, turn the heater off and have it serviced before using it again.

SHUT DOWN

- A. Push in and turn the control knob clockwise to OFF.
 - B. Close the cylinder valve (LP) or supply shut-off valve (NG), and disconnect the regulator when the heater is not in use.
- Do not touch, move or cover the heater for at least 45 minutes after use. To store the Ember, allow it to cool fully, remove the thumb screws, rotate the tube clockwise to unlock it, and lower the dome back into the body.

CARE AND MAINTENANCE

Keep exterior surfaces clean using warm soapy water and a soft cloth. Never use flammable or corrosive cleaning agents. Keep the area around the burner and pilot assembly dry at all times. Do not submerge the control valve; if the gas control is submerged in water it must be replaced.

Keep the appliance area clear of combustible materials. Do not obstruct the flow of combustion and ventilation air. Keep the ventilation openings of the cylinder enclosure free of debris, and keep controls, burner and air passageways clean.

Spiders and insects can nest in the burner or orifices. This dangerous condition can damage the heater and render it unsafe. Clean burner holes with a heavy-duty pipe cleaner; compressed air may help clear smaller particles. Clean the reflector and burner screen with warm soapy water if carbon deposits develop.

In a salt-air environment corrosion occurs more quickly than normal. Check for corroded areas frequently and repair them promptly. A fitted cover is strongly recommended. Inspect the entire hose assembly at least annually for abrasion, cuts or wear, and leak test any suspect areas.

The igniter runs on one AA battery behind the control panel. If the start button no longer sparks, replace the battery before troubleshooting further.

Between uses, turn the control knob off, disconnect the cylinder (LP) or close the supply shut-off (NG), and store the heater upright in an area sheltered from inclement weather. Wait until the heater is completely cool before covering. Never leave a propane cylinder exposed to direct sunlight or excessive heat.

Only a qualified service person should repair gas passages and associated components. Always allow the heater to cool before attempting service, and use only the regulator, hose and replacement parts specified by Lava Heat Italia.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Pilot will not light	Cylinder valve is closed	Open the valve
	Blockage in orifice or pilot tube	Clean or replace the orifice or pilot tube
	Air in the gas line	Purge the line for 1–2 minutes as described in Lighting
	Low gas pressure	Turn the cylinder valve OFF and replace the cylinder
	No spark at the igniter	Replace the AA battery below the control panel
Pilot will not stay lit	Dirt built up around the pilot	Clean the area around the pilot
	Loose connection at gas valve or pilot	Tighten the connection and perform a leak check
	Thermocouple not operating correctly	Contact Lava Heat Italia customer service
Burner will not light	Propane cylinder is frosted over	Wait until the cylinder warms up and becomes unfrosted
	Blockage in orifice	Clear the blockage
Burner flame is low	Gas pressure is low	Replace the cylinder
	Below 40°F and cylinder less than 1/4 full	Use a full cylinder
Carbon build-up	Dirt or film on reflector or glass tube	Clean the reflector and glass tube when cool
Thick black smoke	Blockage in burner	Turn off, allow to cool, and clean the burner inside and outside
Yellow flame, uneven glow or popping	Spiders or insects in burner or orifices	Clean the burner and orifices

The heater operates at reduced efficiency below 40°F (5°C).

WARRANTY

Every Lava Heat Italia heater is backed by the Lava Heat Italia warranty program, effective from the date of purchase as shown on the purchaser's receipt.

Frame and structure	Lifetime limited
Parts	5 years limited
Finish	5 years limited
Burner and glass	1 year limited
Gas hose and regulator assembly	1 year limited

Parts only — labor and freight are not included. Residential and commercial installations are covered on identical terms.

This warranty is valid for the original consumer purchaser. Defects or damage caused by the use of other than genuine parts are not covered. The warranty is void if damage or failure is caused by accident, alteration, misuse, abuse, or incorrect installation or removal. Full terms at lavaheat.com/warranty-and-product-care.

WHEN YOU RECEIVE YOUR PRODUCT

If your product is damaged, requires technical support or replacement parts, or if you have a sales question or product feedback, contact Lava Heat Italia directly.

DO NOT RETURN THIS PRODUCT TO THE RETAILER.

Lava Heat Italia · 940 W. Washington Blvd., Los Angeles, CA 90015
310-559-1700 · customerservice@lavaheat.com · lavaheat.com

REPLACEMENT PARTS

Parts are listed by the letter used throughout this manual. When ordering, quote the model (LHI-EMBER), the part letter and the finish. Consumable items and items damaged in service are not covered by the warranty.

LAVA HEAT ITALIA · ESTABLISHED 2001
940 W. WASHINGTON BLVD., LOS ANGELES, CA 90015
310.559.1700 · [CUSTOMERSERVICE@LAVAHEAT.COM](mailto:customerservice@lavaheat.com)
LAVAHEAT.COM · MADE IN CHINA

SERVICE RECORD

Keep this page with the manual. Quote the model and serial number in any correspondence.

Model	The Ember (LHI-EMBER)
Serial number	
Finish	
Fuel	
Date of purchase	
Dealer	
Installed by	

ANNUAL INSPECTION

Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes
Date	Carried out by	Notes

The heater should be inspected before use and at least annually by a qualified service person. Inspect the entire hose assembly at least annually for abrasion, cuts or wear, and leak test any suspect areas.



LUXURY OUTDOOR HEATING · ESTABLISHED 2001

940 W. WASHINGTON BLVD., LOS ANGELES, CA 90015

310.559.1700 · CUSTOMERSERVICE@LAVAHEAT.COM

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