

The Milano

Assembly Guide · Flat-Pack

This guide takes the heater from carton to first lighting: checking the contents, the assembly steps, connecting the gas supply and the leak check.

Model	Milano
SKU	LHI-MILANO
Configuration	Flat-pack
Estimated time	approx. 40 minutes

WARNING

- Read this guide and the Use & Care Guide in full before assembling or operating the appliance.
- Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death.

DANGER

If you smell gas

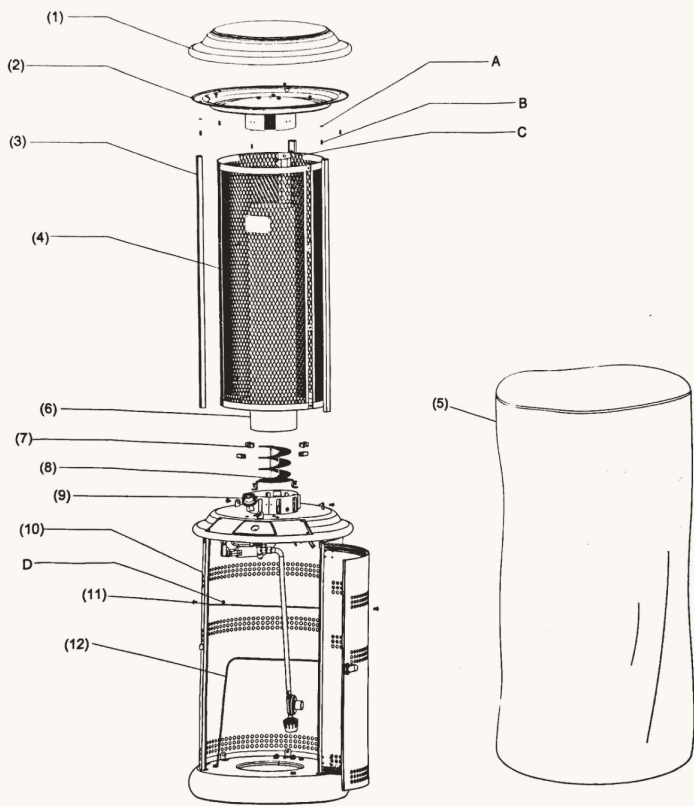
- Shut off gas to the appliance.
- Extinguish any open flame.
- If odor continues, keep away from the appliance and immediately call your gas supplier or fire department.

Before You Begin

Estimated time: approximately 40 minutes. Work on a clean, level surface and wear protective gloves. Steps 1 to 3 build the emitter column and dome, steps 4 to 6 seat the burner and mount the column on the base, and steps 7 to 10 fit the control knob, the cylinder hardware and the battery. Step 11, the propane connection, follows on the fuel page. Hand-start every fastener first and tighten fully only once each section is aligned.

Package contents

Before assembly, make sure all parts are present. Lay every component out on a clean, flat surface. If any part is missing or damaged, do not attempt to assemble the product — contact Lava Heat Italia for replacement parts. Please wear protective



Ref	Part	Qty	Ref	Part	Qty
1	Top dome	1	4	Emitter screen panel	3
8	Flame spiral	1	11	Cylinder support rod	1
2	Top plate	1	6	Burner tube	1
9	Control knob	1	12	Cylinder retaining bracket	1
3	Support post	3	7	Tube clip	4
10	Base cabinet with burner and door	1			

The protective cover (5) shown in the exploded view is sold separately.

Hardware

Verify all hardware is present before assembly. Letters match the factory hardware bag and the assembly steps that follow.

Ref	Item	Qty	Used in
A	D4 washer	9	Steps 2, 3
B	M4 × 10 screw	5	Steps 2, 4
C	M5 × 10 screw	17	Steps 1, 6, 8
D	M5 nut	2	Step 8
E	ST4.2 × 13 self-tapping screw	6	Step 3

A Phillips screwdriver and an adjustable open-end wrench are required and are not supplied. The igniter takes one AA

Assembly

I

Assemble the emitter column

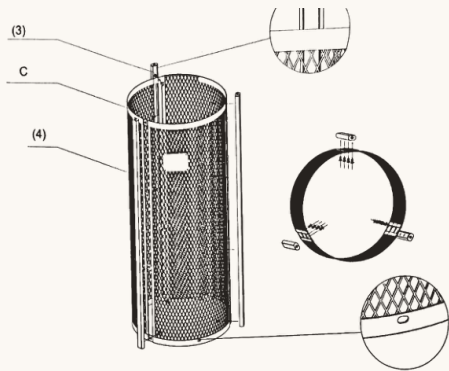
Stand the three emitter screen panels (4) together to form a cylinder, with a support post (3) at each joint.

Fix each panel to the posts with twelve M5 × 10 screws (C) in total.

The longer end of each post goes to the top.

HARDWARE AND TOOLS

C	M5 × 10 screw	× 12
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2

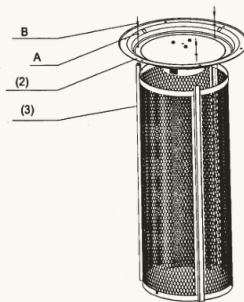
Fit the top plate

Set the top plate (2) on the three support posts (3) and align the holes.

Secure with three D4 washers (A) and three M4 × 10 screws (B).

HARDWARE AND TOOLS

A	D4 washer	× 3
B	M4 × 10 screw	× 3



3

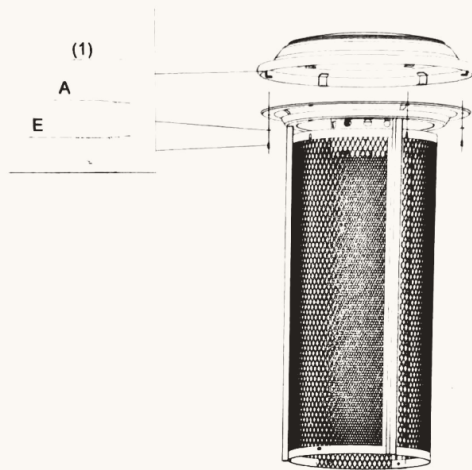
Fit the top dome

Place the top dome (1) over the top plate and align the holes.

Secure with six D4 washers (A) and six ST4.2 × 13 self-tapping screws (E).

HARDWARE AND TOOLS

A	D4 washer	× 6
E	ST4.2 × 13 screw	× 6



4

Fit the flame spiral

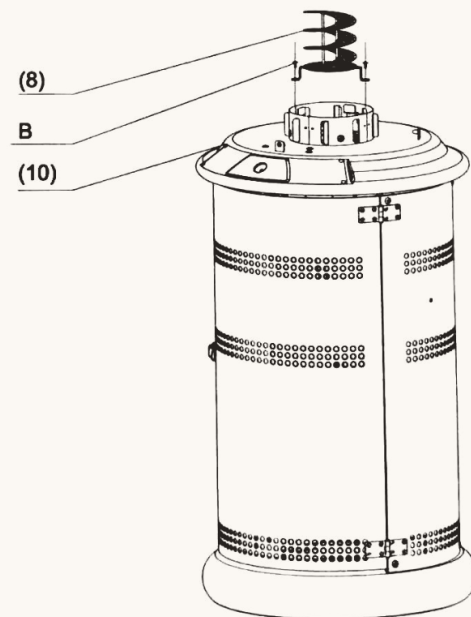
Set the flame spiral (8) on the burner in the top of the base cabinet (10).

Secure with two M4 × 10 screws (B).

HARDWARE AND TOOLS

B M4 × 10 screw

× 2

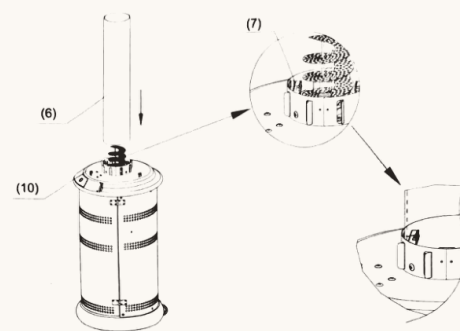


5

Seat the burner tube

Lower the burner tube (6) over the flame spiral until it seats inside the four tube clips (7) on the base.

The tube must sit upright and fully down in all four clips.



6

Mount the emitter column

Lower the emitter column over the burner tube onto the base, aligning the three support posts with their holes.

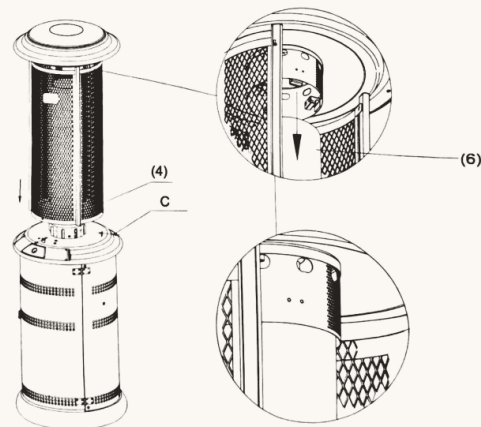
Secure with three M5 × 10 screws (C).

Make sure the burner tube stays centred inside the column.

HARDWARE AND TOOLS

C M5 × 10 screw

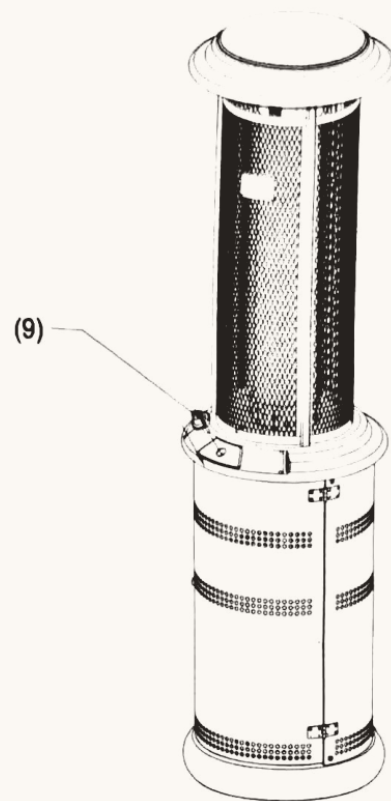
× 3



7

Fit the control knob

Press the control knob (9) onto the valve stem on the control panel until it seats firmly.



8

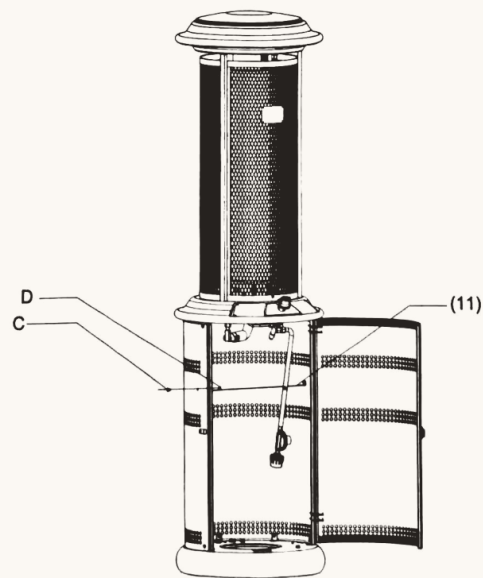
Fit the cylinder support rod

Open the door. Fit the cylinder support rod (11) across the inside of the cabinet.

Secure with two M5 × 10 screws (C) and two M5 nuts (D).

HARDWARE AND TOOLS

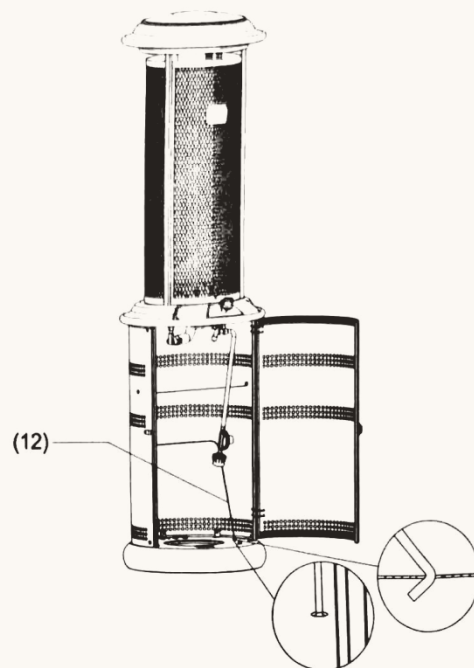
C	M5 × 10 screw	× 2
D	M5 nut	× 2



9

Fit the cylinder retaining bracket

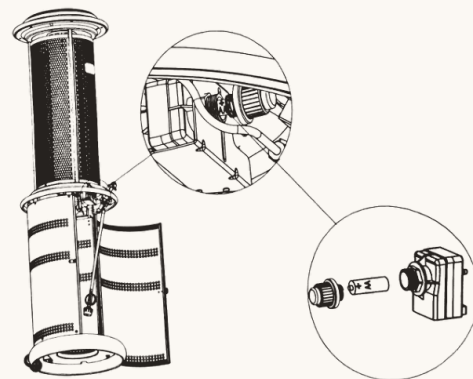
Insert the ends of the cylinder retaining bracket (12) into the holes in the cabinet floor.



10

Install the battery

Unscrew the igniter cap behind the control panel, insert one AA battery (not supplied) with the positive end out, and refit the cap.



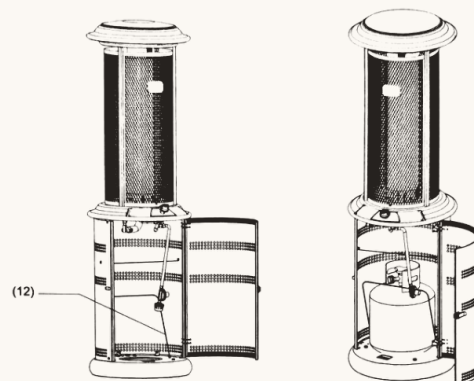
11

Connect the propane cylinder

Open the door and stand a standard 20 lb (9 kg) propane cylinder on the cabinet floor, behind the retaining bracket (12).

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

Leak test every connection (see Leak Check), then close the door.



Connect the Gas Supply

Complete the assembly before connecting gas. Never connect an unregulated cylinder to this heater. Use a standard 20 lb propane cylinder only, with a vapor-withdrawal supply system; the cylinder is sold separately. The pressure regulator and hose assembly supplied with the appliance must be used.

Cylinder requirements

- Constructed and marked per U.S. DOT specifications for LP-gas cylinders or, in Canada, CAN/CSA-B339.
- Fitted with a listed overfilling prevention device (OPD), a collar protecting the cylinder valve, and a connection compatible with the supplied regulator.
- Never use a dented, rusted or damaged cylinder. Never fill a cylinder beyond 80 percent full.
- Replace the dust cap on the valve outlet whenever the cylinder is not in use. Never store a spare cylinder under or near this appliance, or in an enclosed area.

Natural gas units

NOTICE

Professional installation only

Connection to a fixed natural gas line must be carried out by a qualified, licensed gas technician in accordance with local codes or, in their absence, ANSI Z223.1/NFPA 54 or CSA B149.1. Check the rating plate to confirm the fuel before connecting any supply.

- Natural gas units operate at 4–7 in W.C. The supply line must be sized for the total BTU load of every appliance on it, never smaller than ¾" inside diameter.
- A manual gas shut-off valve must be installed in an easily accessible location.
- Natural gas units ship with a 10 ft quick-connect hose. Never connect a gas line directly to the heater without the pressure regulator supplied.

Leak Check

Carry out this check now, whenever a cylinder is changed, and any time a gas connection has been loosened or removed.

Step	Action
1	Mix 2–3 oz of leak-check solution — one part liquid dish detergent to three parts water.
2	Make sure all heater valves are OFF.
3	Apply the solution to the hose-to-regulator joint, the regulator-to-cylinder joint, and every other hose and valve connection.
4	Turn the cylinder valve ON and watch each joint.
5	Bubbles mean a leak: turn the cylinder valve OFF, tighten or reconnect, and test again. If bubbles continue at the hose, contact Lava Heat Italia for a replacement.

 WARNING

- Perform all leak tests outdoors, with all open flames extinguished. Never leak-test while smoking, and never use a flame to check for leaks.
- Do not use the heater until every connection has been leak tested and does not leak.

First Lighting

This heater is equipped with a pilot light that allows for safer startups and shutdowns. The pilot must be lit before the main burner can be started.

Lighting

Step	Action
1	Turn the control knob to OFF.
2	Fully open the cylinder valve (LP) or supply shut-off valve (NG).
3	Push the knob down and turn it counter-clockwise to IGNITE. Keep holding it down; the igniter sparks until the pilot lights.
4	Once the pilot is lit, keep the knob pressed for up to 30 seconds to heat the flame sensor, then release it.
5	Push the knob in slightly and turn it to LOW. Check the flame is stable, then set the heat between LOW and HIGH.

If the pilot does not light, turn the knob to OFF, wait 5 minutes for gas to clear, and repeat. The first ignition takes longer while air purges from the line. If the igniter fails, the pilot can be lit with a long match through the ignition hole provided. If the flame goes out accidentally, from wind or another cause, the flame safety device shuts off the gas within 90 seconds.

Check the flame

The emitter screen glows bright red, with tongues of blue flame at the burner; the heater should never produce 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.

Full lighting, shut-down, care and troubleshooting instructions are in the Use & Care Guide.

Before You Walk Away

#	Confirm
1	Every component removed or fitted during assembly is in place and fastened.
2	All gas connections have been leak tested and are leak-free.
3	The gas hose is routed clear of every hot surface.
4	The heater stands outdoors on a hard, level surface, outside any enclosure.
5	Clearances are met — 36" at the sides and 36" at the top, from combustible materials.
6	The heater is clear of windows, air intakes, sprinklers and other water sources.
7	The cylinder is secured and its enclosure is clear of debris.
8	A dry chemical fire extinguisher is readily available.



WARNING

- The heater is hot during and after use. Do not touch or move it for at least 45 minutes after shutdown.
- Any guard or protective device removed for servicing must be replaced before the heater is returned to service.

Do not return this product to the retailer. For missing or damaged parts, technical support or replacement parts, contact Lava Heat Italia directly.

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