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VEVOR JHRJS12KG02A

VEVOR 12KG Propane Melting Furnace Kit

Model: JHRJS12KG02A

Instruction Manual

1. Introduction and Safety Information

This instruction manual provides essential information for the safe and effective use of your VEVOR 12KG Propane Melting Furnace Kit. Please read and understand all instructions and safety warnings before operating the furnace. Failure to follow these instructions may result in serious injury, property damage, or death.
This furnace is designed for melting metals such as copper, aluminum, gold, and silver, and can also be used for blacksmithing and jewelry processing. It operates at high temperatures and uses flammable propane gas. Extreme caution is required during all stages of operation.

General Safety Warnings:

- Always operate the furnace in a well-ventilated outdoor area. Never use indoors.
- Wear appropriate personal protective equipment (PPE), including heat-resistant gloves, face shield, safety glasses, and protective clothing.
- Keep children and pets away from the operating area.
- Ensure the furnace is on a stable, non-combustible surface.
- Do not leave the furnace unattended during operation.
- Always check for gas leaks before ignition using a soap solution.
- Do not touch hot surfaces. Allow the furnace and crucible to cool completely before handling.
- Use only the specified propane gas and regulator.
- Do not overload the crucible.
- Be aware that the crucible is a consumable item and has a limited service life (typically 2-3 uses). Inspect it for cracks before each use.

2. Package Contents

Verify that all components listed below are present and undamaged upon unpacking your VEVOR 12KG Propane Melting Furnace Kit.

- 1 x Furnace body
- 2 x Burners
- 1 x 12KG Graphite Crucible
- 1 x High Strength Tong

- 1 x Propane Pipe with Pressure Gauge (30 PSI adjustable regulator)
- Pre-assembled components: Connecting pipe, 2 valves, 2 nozzles
- 1.5 x Fire Bricks
- 1 x Handle (for furnace cover)
- 1 x Instruction Manual

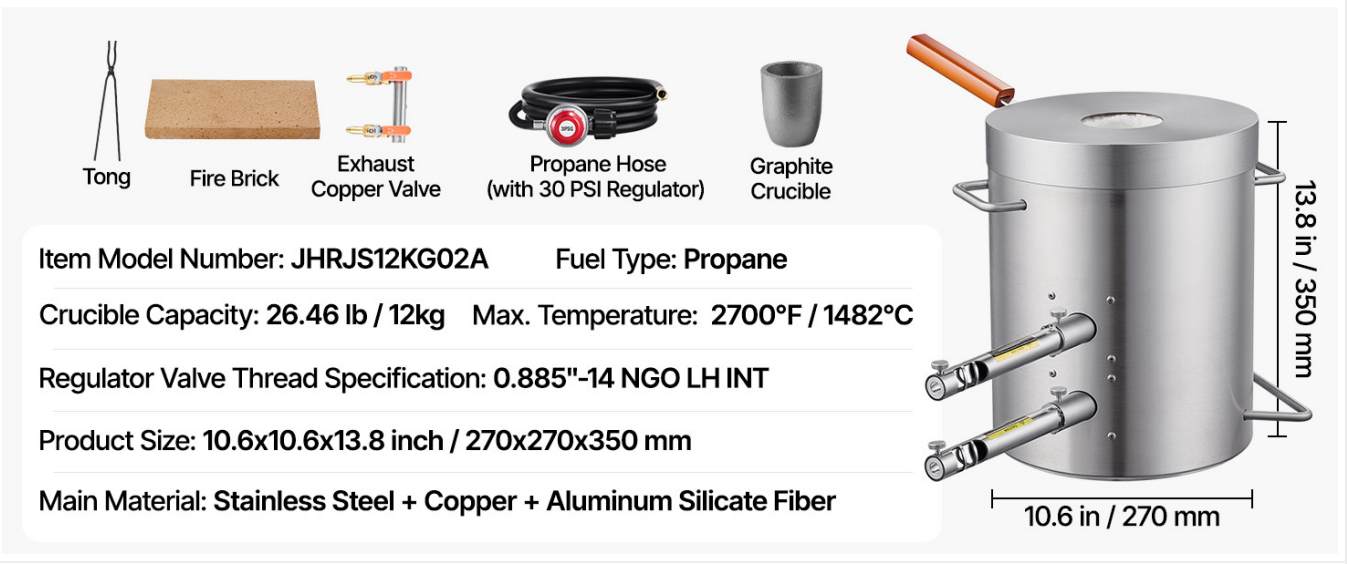

Figure 2.1: Included components of the VEVOR 12KG Propane Melting Furnace Kit.

3. Specifications

Key technical specifications for the VEVOR 12KG Propane Melting Furnace Kit.

Item Model Number	JHRJS12KG02A
Fuel Type	Propane
Max. Temperature	2700°F / 1482°C
Crucible Capacity	12 kg (26.46 lb)
Main Material	Stainless Steel + Copper + Aluminum Silicate Fiber
Regulator Valve Thread Specification	0.885"-14 NGO LH INT
Product Size (L x W x H)	10.6 x 10.6 x 13.8 inches (270 x 270 x 350 mm)
Item Weight	32 pounds



Figure 3.1: Crucible capacity for various metals (theoretical full capacity).

4. Setup Instructions

Follow these steps to assemble and prepare your propane melting furnace for operation.

1. **Attach Copper Valves to Burners:** Connect the copper valves to the burner tubes. Ensure a secure fit.
2. **Mount Burners on Furnace:** Insert the assembled burners into the designated openings on the furnace body.
3. **Connect Propane Hose to Burners:** Attach the propane hose's connecting pipe to the copper valves on the burners.
4. **Connect Propane Hose to Tank:** Securely connect the propane hose with the 30 PSI adjustable regulator to your standard propane tank. Ensure all connections are tight.
5. **Perform Leak Test:** Before ignition, apply a soap and water solution to all gas connections. Open the propane tank valve slightly. If bubbles appear, there is a leak. Tighten connections or replace faulty parts. Do not proceed until all leaks are resolved.
6. **Place Fire Brick and Crucible:** Position the fire brick at the bottom of the furnace. Carefully place the graphite crucible onto the fire brick inside the furnace.
7. **Attach Furnace Handle:** Secure the handle to the furnace cover for safe lifting.

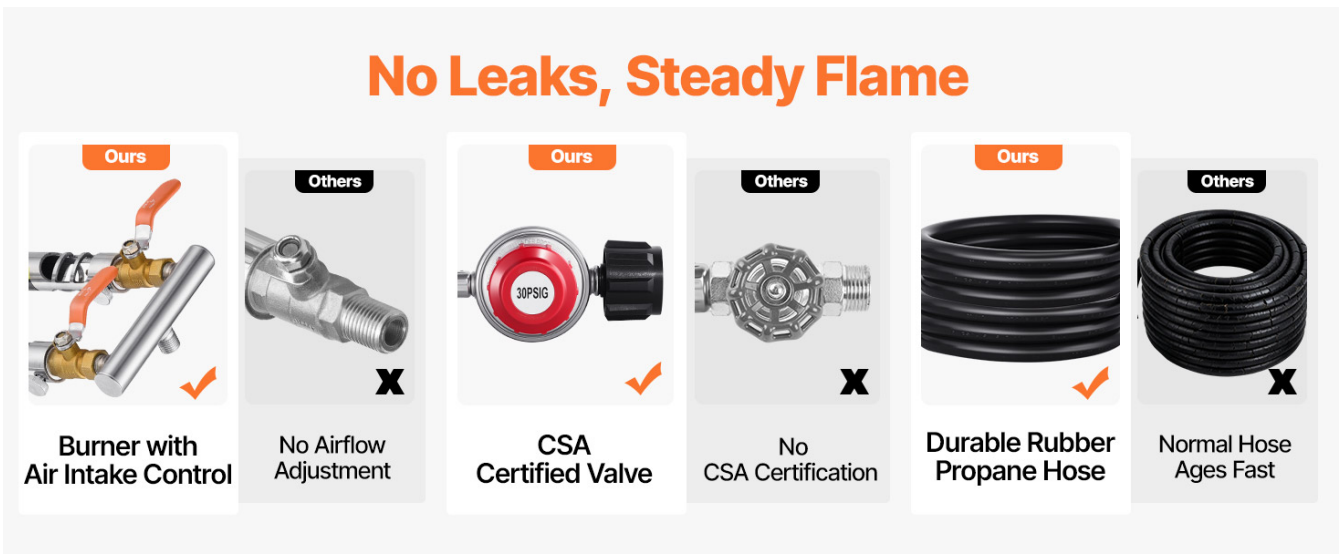

Figure 4.1: Key components for a secure and efficient gas connection.

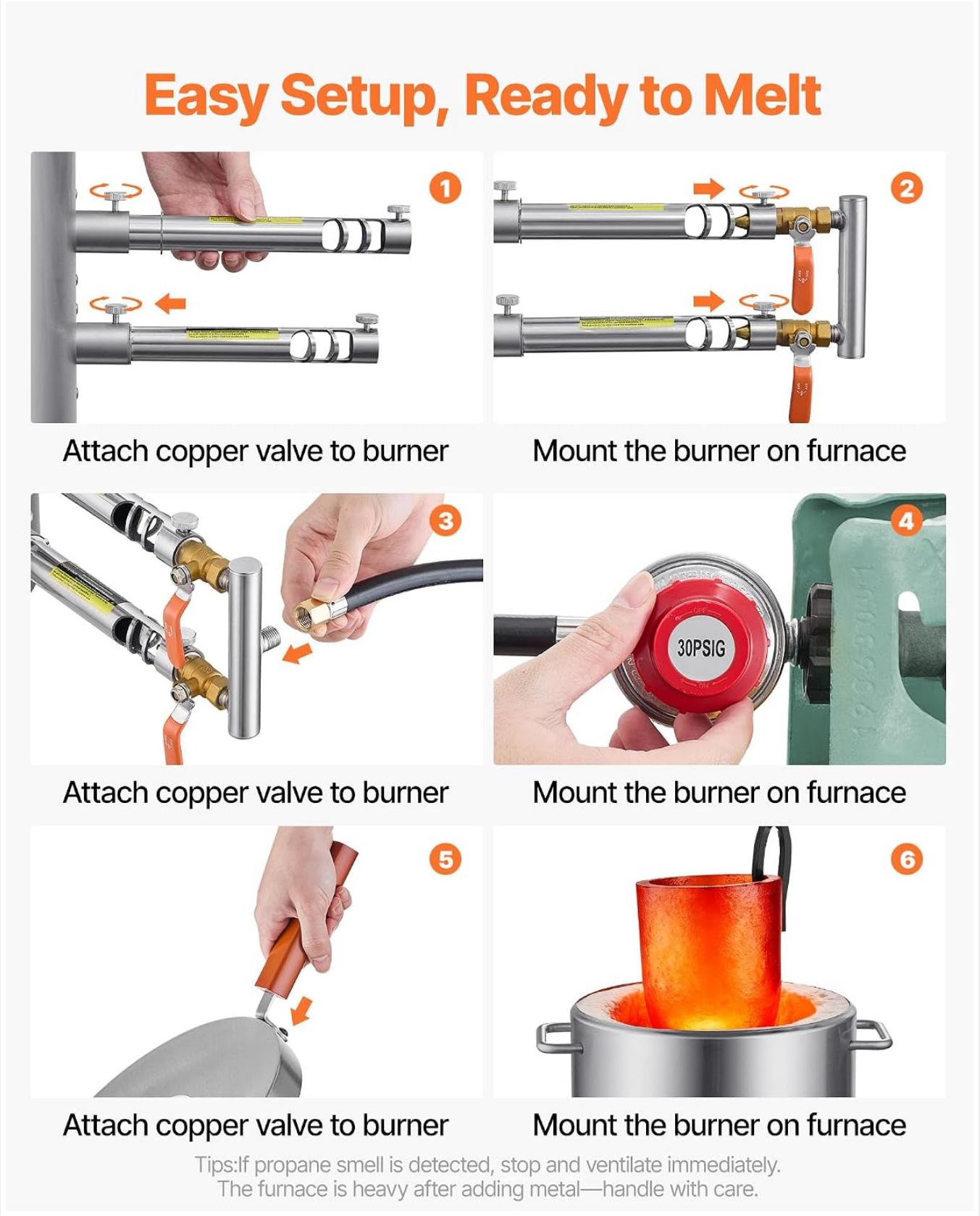

Figure 4.2: Visual guide for furnace assembly.

Important Note: If a propane smell is detected at any point, immediately stop operation, turn off the gas supply, and ventilate the area thoroughly before investigating the source of the leak.

5. Operating Instructions

This section details the procedure for safely operating your VEVOR propane melting furnace for metal melting and forging.

5.1 Pre-Operation Checks

- Ensure all safety warnings in Section 1 are understood and followed.
- Verify all connections are secure and leak-free.
- Confirm the crucible is free of cracks or damage.
- Have all necessary tools, including the high-strength tongs and a safe pouring mold, ready.
- Ensure the operating area is clear of flammable materials.

5.2 Ignition and Melting Process

1. Place the metal to be melted into the crucible. Do not overfill.
2. Ensure the furnace cover is properly seated.
3. Slowly open the main valve on the propane tank.
4. Slightly open the gas valves on the burners.
5. Using a long lighter or igniter, carefully ignite the gas at the burner nozzles. Adjust the air intake control on the burners for an optimal flame (blue flame with a distinct inner cone).
6. Gradually increase the gas flow to achieve the desired temperature. The furnace can reach up to 2700°F (1482°C) within 6.5-8 minutes, depending on ambient conditions and metal type.
7. Monitor the melting process. Once the metal is molten, carefully turn off the gas supply at the propane tank, then at the burner valves.
8. Using the provided high-strength tongs, carefully lift the hot crucible from the furnace and pour the molten metal into your mold. Exercise extreme caution as molten metal is highly dangerous.
9. Allow the furnace and crucible to cool completely before attempting any further handling or cleaning.



Figure 5.1: Furnace in operation, demonstrating rapid heating.



Figure 5.2: Pouring molten metal and typical melting temperatures for various metals.

5.3 Forging Applications

This furnace can also be used as a farrier forge. To use for forging, position the furnace horizontally and adjust the burners to heat the metal workpiece. Always follow appropriate forging safety procedures, including wearing heavy-duty gloves and eye protection.



Figure 5.3: Examples of furnace applications, including forging.

6. Maintenance

Proper maintenance ensures the longevity and safe operation of your VEVOR melting furnace.

- **Crucible Inspection:** Inspect the graphite crucible before each use for cracks or damage. Replace the crucible if any damage is found, as it is a consumable item with a limited lifespan.
- **Furnace Interior:** After the furnace has completely cooled, gently remove any debris or slag from the interior. Avoid

aggressive scraping that could damage the insulation.

- **Burner Nozzles:** Periodically check burner nozzles for blockages or carbon buildup. Clean as necessary to ensure efficient gas flow and a consistent flame.
- **Hose and Regulator:** Inspect the propane hose and regulator for any signs of wear, cracks, or damage. Replace immediately if any issues are detected.
- **Storage:** Store the furnace in a dry, protected area when not in use. Disconnect the propane tank and store it separately according to local regulations.

7. Troubleshooting

This section addresses common issues you might encounter during the operation of your furnace.

Problem	Possible Cause / Solution
No Flame / Difficulty Igniting	• Propane tank valve closed: Open the tank valve. • Burner valves closed: Open the burner valves. • Gas leak: Perform a leak test (Section 4) and resolve any leaks. • Clogged burner nozzle: Inspect and clean the burner nozzle. • Low propane level: Check propane tank level.
Weak or Inconsistent Flame	• Low propane level: Check propane tank level. • Improper air intake adjustment: Adjust the air intake control on the burners for a stable blue flame. • Clogged burner nozzle: Inspect and clean the burner nozzle. • Faulty regulator: Ensure the 30 PSI regulator is functioning correctly.
Furnace Not Reaching Desired Temperature	• Insufficient gas flow: Increase gas flow via the regulator and burner valves. • Improper air/fuel mixture: Adjust air intake for optimal combustion. • Damaged insulation: Inspect the furnace insulation for damage; significant damage can reduce efficiency. • Crucible too large or overloaded: Ensure crucible capacity is not exceeded.
Propane Smell During Operation	• **IMMEDIATELY SHUT OFF GAS SUPPLY.** • Evacuate the area and allow it to ventilate. • Perform a thorough leak test (Section 4) on all connections. Do not re-ignite until the leak is found and repaired.

8. Warranty and Support

For warranty information, technical support, or to purchase replacement parts, please contact VEVOR customer service. Refer to the contact information provided with your product packaging or visit the official VEVOR website.
When contacting support, please have your model number (JHRJS12KG02A) and purchase date available.

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