VEVOR H7L

VEVOR H7L Magnetic Induction Heater Kit User Manual

Model: H7L

1. Introduction

The VEVOR H7L Magnetic Induction Heater Kit is a portable, flameless heating tool designed for various applications, primarily in automotive repair and mechanical maintenance. It utilizes high-frequency electromagnetic fields to rapidly heat conductive metals, making it ideal for loosening rusted bolts, nuts, bearings, and other small metal parts without the use of an open flame.

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your VEVOR H7L Induction Heater Kit.

2. Safety Instructions

To ensure safe operation and prevent injury or damage, please read and understand all safety instructions before using the device.

- **Flameless Operation:** This induction heater operates without an open flame, reducing fire hazards. However, heated metal can still cause burns. Always wear appropriate personal protective equipment, including heat-resistant gloves and eye protection.
- **Overheating Protection:** The device is equipped with a cooling fan and overheating protection. If the unit becomes excessively hot, it may temporarily shut down. Allow it to cool before resuming operation.
- **LED Indicator:** An integrated LED light indicates normal operation and serves as a reminder to avoid touching the coil during and immediately after use, as it will be hot.
- **Ventilation:** Ensure adequate ventilation in the work area to dissipate any fumes or heat generated.
- **Material Compatibility:** This device is designed for conductive metals. Do not use it on non-magnetic materials like copper or aluminum, or on materials that may melt or release hazardous fumes when heated.
- **Electrical Safety:** Ensure the power supply matches the device's requirements (110V, 1000W). Do not operate with damaged cords or plugs. Keep the device dry and away from liquids.
- **Ergonomic Grip:** The anti-slip handle provides a secure grip. Maintain a firm hold during operation to prevent accidental drops.

3. Product Overview and Components

The VEVOR H7L kit includes the main induction heater unit, a variety of induction coils, and a protective carrying case.

3.1 Main Unit and Accessories

Image 1: The VEVOR H7L Magnetic Induction Heater Kit, showcasing the main handheld unit, a selection of induction coils, and the durable blue carrying case for storage and transport.

- **Induction Heater Unit:** The handheld device that generates the electromagnetic field. Features an ergonomic grip, power button, cooling fan, and LED indicator.
- **Induction Coils:** Various sizes and types of coils designed to fit around different metal components. The kit includes 10 coils for diverse applications.
- **Carrying Case:** A robust case for organized storage and convenient transport of the heater unit and coils.

Image 2: A detailed view of the 10 induction coils provided with the kit, including two Φ1.8" (45 mm) coils, two Φ1.6" (40 mm) coils, two Φ1.2" (30 mm) coils, two round coils, and two 29.5" (750 mm) flexible copper wires, offering versatility for various heating tasks.

3.2 Key Features

- **Flameless Heating:** Utilizes electromagnetic induction for rapid, localized heating without an open flame.
- **Quick and Precise:** Heats metal components quickly and accurately, ideal for specific applications.
- **Safety Features:** Equipped with a cooling fan, overheating safeguard, and an LED indicator for safe operation.
- **Ergonomic Design:** Features a large, anti-slip handle for comfortable and secure grip during extended use.
- **Versatile Coils:** Comes with 10 different coils to accommodate a wide range of heating needs.
- **Portable:** Supplied with a durable carrying case for easy storage and transport.

4. Setup

4.1 Unpacking

1. Carefully remove all components from the carrying case.

2. Inspect the induction heater unit, coils, and power cord for any signs of damage. Do not use if damaged.
3. Ensure all listed components are present.

4.2 Coil Installation

1. Select the appropriate induction coil for your specific task. Choose a coil that can fit snugly around the metal part to be heated.
2. Insert the ends of the chosen coil into the two terminals on the front of the induction heater unit.
3. Tighten the retaining knobs on each terminal to secure the coil firmly in place. Ensure a good electrical connection.
4. Verify that the coil is properly seated and stable before proceeding.

5. Operating Instructions

5.1 Basic Operation

1. Ensure the selected coil is securely installed and the work area is clear and well-ventilated.
2. Plug the power cord into a compatible 110V AC outlet.
3. Position the induction coil around the metal component you wish to heat. Ensure the coil does not touch any non-metallic or sensitive parts that could be damaged by heat.
4. Press and hold the power button on the handle. The LED indicator will illuminate, and the heating process will begin.
5. Observe the metal part as it heats. Release the power button once the desired temperature is reached or the part begins to loosen.
6. Allow the heated component to cool sufficiently or use appropriate tools to handle it. The coil itself will also be hot; avoid direct contact.
7. After use, unplug the device and allow it to cool completely before storing.

5.2 Applications

The VEVOR H7L is highly effective for various tasks requiring localized heating:

Image 3: This image illustrates various applications of the induction heater, including the removal of stuck screws, emblem removal from vehicle bodies, and soft hail repair, demonstrating its versatility for quick and continuous heating of conductive metals.

- **Stuck Bolt and Nut Removal:** Ideal for expanding rusted or seized bolts and nuts, making them easier to remove.
- **Bearing and Gear Removal:** Can be used to heat and expand bearings or gears for easier removal from shafts.
- **Automotive Repairs:** Facilitates the removal of various components in vehicle maintenance, such as exhaust bolts, suspension parts, and steering components.
- **Emblem Removal:** Gently heats adhesive behind emblems for clean removal without damaging paint.
- **Soft Hail Dent Repair:** Can be used to gently heat metal for certain dent repair techniques.

Image 4: The VEVOR H7L induction heater in action, with a coil wrapped around a bolt on a car's brake rotor assembly, demonstrating its use for loosening automotive fasteners.

5.3 Principle of Flameless Induction Heating

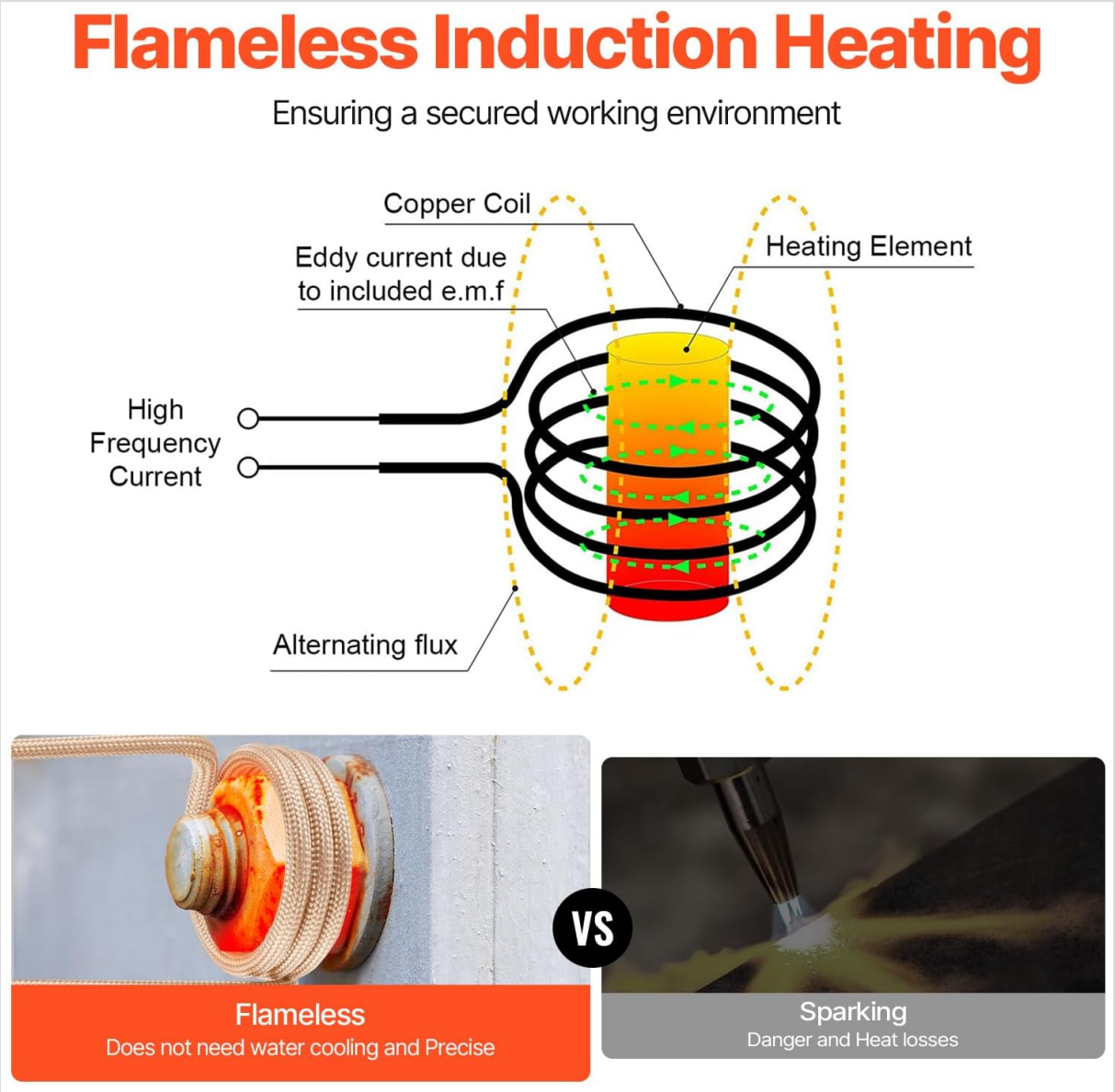

Image 5: This diagram illustrates the principle of flameless induction heating. A high-frequency current passes through a copper coil, creating an alternating magnetic flux. This flux induces eddy currents within the metallic heating element, generating heat directly within the metal. This method is precise and does not require water cooling, unlike traditional sparking methods.

The VEVOR H7L uses electromagnetic induction. When high-frequency current flows through the induction coil, it creates a rapidly changing magnetic field. When a conductive metal object is placed within this field, eddy currents are induced in the metal. The resistance of the metal to these eddy currents causes it to heat up rapidly and precisely from within.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your induction heater.

- **Cleaning:** After each use, ensure the unit is unplugged and cool. Wipe the exterior with a clean, dry cloth. Do not use abrasive cleaners or solvents.
- **Coil Inspection:** Regularly inspect the induction coils for any signs of wear, damage, or fraying. Replace damaged coils immediately.
- **Storage:** Store the induction heater and coils in the provided carrying case in a dry, clean environment, away from direct sunlight and extreme temperatures.
- **Ventilation Ports:** Keep the cooling fan and ventilation ports free from dust and debris to ensure efficient heat dissipation.

7. Troubleshooting

If you encounter issues with your VEVOR H7L, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; loose connection; faulty power button.	Check power outlet and cord connection. Ensure power button is fully pressed.
No heating or weak heating.	Coil not properly installed; incorrect coil size; non-conductive material.	Ensure coil is securely tightened. Use appropriate coil size. Verify material is conductive metal.
Unit shuts off during operation.	Overheating protection activated.	Allow the unit to cool down. Ensure ventilation ports are clear. Reduce continuous operating time.
LED indicator not lighting up.	Unit not powered; faulty LED.	Check power connection. If unit heats but LED is off, contact support.

8. Specifications

Detailed technical specifications for the VEVOR H7L Magnetic Induction Heater Kit.

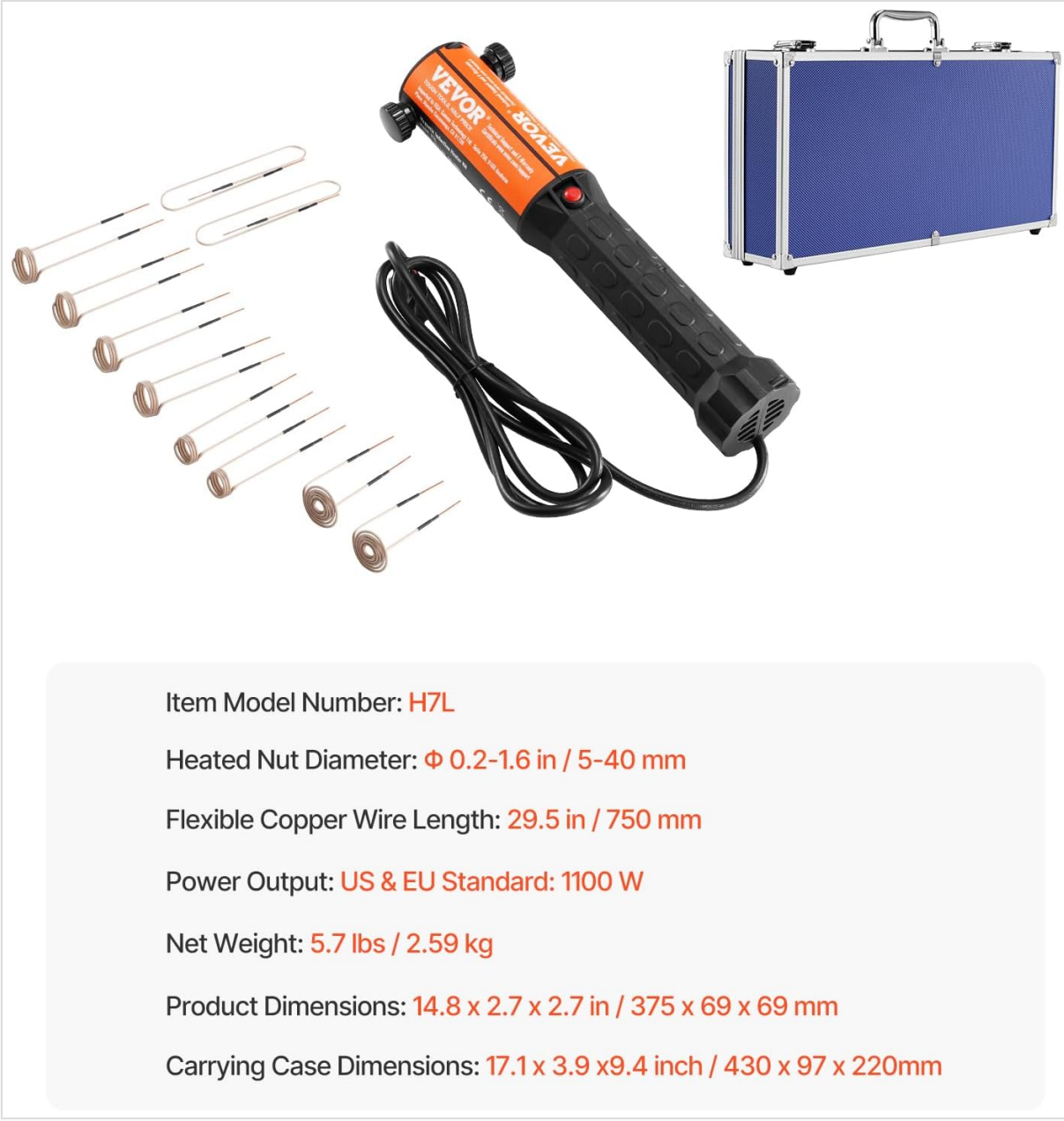

Image 6: This image displays the key specifications for the VEVOR H7L Induction Heater Kit, including model number, heated nut diameter range, flexible copper wire length, power output, net weight, product dimensions, and carrying case dimensions.

Specification	Value
Item Model Number	H7L
Heated Nut Diameter	Φ0.2-1.6 in / 5-40 mm
Flexible Copper Wire Length	29.5 in / 750 mm
Power Output	1000 W (US & EU Standard: 1100 W)
Net Weight	5.7 lbs / 2.59 kg
Product Dimensions (L x W x H)	14.8 x 2.7 x 2.7 in / 375 x 69 x 69 mm
Carrying Case Dimensions (L x W x H)	17.1 x 3.9 x 9.4 in / 430 x 97 x 220 mm
Power Type	AC

Specification	Value
Included Components	10 Heating Coils (various sizes)

9. Warranty and Support

VEVOR products are designed for durability and performance. For warranty information, technical support, or service inquiries, please refer to the official VEVOR website or contact their customer service directly. Keep your purchase receipt for warranty claims.

For additional resources and support, visit the VEVOR Store on Amazon.

Related Documents - H7L

	VEVOR Screw Bolt Extractor User Manual User manual for VEVOR Screw Bolt Extractors (Models YM-35, YM-29, YM-48), providing essential safety instructions, assembly guidance, and operational steps for effectively removing damaged bolts, screws, and nuts using specialized extraction tools.
	VEVOR Flameless Heating System - Model 8PC62H9/8PC71LL/8PC62C1 User Manual User manual and technical specifications for the VEVOR Flameless Heating System, including models 8PC62H9, 8PC71LL, and 8PC62C1. Provides operation instructions, safety warnings, and parameter details.
	VEVOR Boat Trailer Steps Model 2202: User Manual & Installation Guide Comprehensive instructions for VEVOR Boat Trailer Steps (Model 2202), covering safety precautions, usage, maintenance, and installation. Ensure safe operation and proper setup for your boat trailer.
	VEVOR Screw and Bolt Extractor Set: User Guide and Instructions This guide provides detailed instructions and safety precautions for using the VEVOR Screw and Bolt Extractor Set (Models: YMWJ16, YMWJ27, YMWJ41, YMWJ9, YMWJ49, ymwj54, ymwuj65, ymwj63). Learn how to safely and effectively remove damaged screws and bolts.

	VEVOR Screw Bolt Extractor User Manual - Models YM-35, YM-29, YM-48 Comprehensive user manual for VEVOR Screw Bolt Extractors (Models YM-35, YM-29, YM-48). Includes safety instructions, assembly precautions, and detailed usage steps for bolt and nut extraction.
	VEVOR Car Repair Stool User Manual - Installation and Troubleshooting Comprehensive user manual for the VEVOR Car Repair Stool, a 250 LBS rolling pneumatic creeper garage/shop seat with adjustable height. Includes product details, accessories, installation steps, and common fault analysis for automotive repair.