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Model: HDL00013-A

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INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your MOLLIFII HDL00013-A Cartridge Immersion Heater. Please read this manual thoroughly before use and retain it for future reference.

The MOLLIFII HDL00013-A is a 3000W, 240V AC cartridge immersion heater designed for applications requiring precise and efficient heating of liquids. Its Incoloy sheath and brass screw plug ensure durability and reliable performance.

IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock and burns. Improper installation or operation can lead to serious injury or death. Always disconnect power before installation or servicing.

- Ensure the heater is fully immersed in the liquid before applying power.
- Do not operate the heater in flammable or corrosive liquids unless specifically designed for such environments.
- Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Verify the voltage and wattage ratings of the heater match the power supply.
- Keep children and unauthorized personnel away from the operating heater.
- Regularly inspect the heater for signs of damage or wear.

SETUP AND INSTALLATION

Unpacking

Carefully remove the heater from its packaging. Inspect for any visible damage. If damage is found, do not proceed with installation and contact customer support.

Mounting

1. Ensure the mounting location provides adequate space for the heater's overall length of 12 7/8 inches and allows for a minimum immersion depth of 12 inches.
2. Prepare a 1/2 inch NPT threaded opening in the tank or vessel where the heater will be installed.
3. Apply appropriate thread sealant to the brass screw plug.
4. Carefully thread the heater into the opening. Tighten securely to prevent leaks, but do not overtighten.

Electrical Connection

WARNING: All electrical work must be performed by a qualified electrician.

1. Verify the power supply is 240V AC, 1 Phase.
2. Connect the heater's wiring to the power supply according to local electrical codes and the heater's wiring diagram (not provided in this general manual, refer to product-specific documentation if available).
3. Ensure all connections are secure and properly insulated.
4. Confirm proper grounding of the heater.



Figure 1: Example of a cartridge immersion heater properly installed in a vessel. Ensure the heater is fully submerged.

OPERATING INSTRUCTIONS

Pre-Operation Checklist

- Confirm the heater is fully immersed in the liquid.
- Verify all electrical connections are secure and correct.
- Ensure the liquid level is maintained above the minimum immersion depth of 12 inches.

Starting the Heater

1. Once all pre-operation checks are complete, apply power to the heater circuit.
2. If a thermostat or control system is connected, set it to the desired temperature. The heater has a control range up to 266°F.
3. Monitor the liquid temperature to ensure proper operation.

Stopping the Heater

1. To stop heating, turn off the power to the heater circuit.
2. Allow the heater to cool down before attempting any maintenance or removal.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your immersion heater.

Routine Inspection (Monthly)

- **Disconnect Power:** Always disconnect the power supply before any inspection or maintenance.
- **Visual Check:** Inspect the heater sheath for any signs of corrosion, pitting, or scale buildup.
- **Electrical Connections:** Check all electrical connections for tightness and signs of overheating.
- **Liquid Level:** Ensure the liquid level in the tank is consistently maintained above the minimum immersion depth.

Cleaning

If scale buildup is observed on the heater sheath, it should be removed to maintain heating efficiency. Use appropriate descaling agents or methods suitable for Incoloy material and the liquid being heated. Avoid abrasive tools that could damage the sheath.

Storage

If the heater is to be stored for an extended period, ensure it is clean, dry, and stored in a cool, dry environment to prevent corrosion.

TROUBLESHOOTING

Before performing any troubleshooting, ensure the power supply to the heater is disconnected.

Problem	Possible Cause	Solution
Heater does not heat	No power supply Faulty wiring Heater element failure	Check circuit breaker/fuse. Verify power to the circuit. Inspect and repair wiring connections. Test heater element for continuity; replace if open circuit.
Slow heating	Scale buildup on sheath Incorrect voltage Insufficient immersion	Clean heater sheath. Verify supply voltage matches heater rating (240V AC). Ensure minimum immersion depth of 12 inches is met.
Heater trips circuit breaker	Short circuit Ground fault Overload	Inspect wiring for shorts. Check heater element for internal short. Check for moisture ingress or damaged insulation. Ensure circuit capacity is sufficient for 3000W load.
Liquid leaks around plug	Improperly tightened plug Damaged thread sealant	Tighten brass screw plug. Do not overtighten. Remove heater, reapply thread sealant, and reinstall.

SPECIFICATIONS

Feature	Detail
Model	HDL00013-A
Wattage	3000 W
Heater Voltage	240V AC
Phase	1 Phase
Watt Density	130 sq in
Sheath Material	Incoloy
Screw Plug Material	Brass
Overall Length	12 7/8 in
NPT Size	1/2 in NPT
Minimum Immersion Depth	12 in
Control Range	Up to 266°F

WARRANTY AND SUPPORT

Warranty Information

MOLLIFII products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official MOLLIFII website. Keep your proof of purchase for warranty claims.

Customer Support

If you encounter any issues or have questions regarding your MOLLIFII HDL00013-A Cartridge Immersion Heater that are not covered in this manual, please contact MOLLIFII customer support. Contact details can typically be found on the product packaging or the official brand website.

When contacting support, please have your product model number (HDL00013-A) and purchase date available.