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LDGSUPH UPS15-50/60

LDGSUPH UPS15-50/60 Universal Boiler Water Pump Instruction Manual

Model: UPS15-50/60 (UPS 15-60 CESA01)

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your LDGSUPH UPS15-50/60 Universal Wall-Mounted Boiler Water Pump. Please read this manual thoroughly before installation or use to ensure proper function and to prevent potential hazards. Keep this manual for future reference.

2. Safety Information

Always observe the following safety precautions to reduce the risk of injury, electric shock, fire, or damage to the product.

- **Professional Installation:** Installation and electrical connections must be performed by a qualified and licensed professional in accordance with all local and national electrical and plumbing codes.
- **Power Disconnection:** Always disconnect power to the boiler system and the pump before performing any installation, maintenance, or troubleshooting.
- **Electrical Safety:** Ensure the power supply matches the pump's voltage and frequency specifications. The motor is equipped with necessary safety protection measures such as overload protection, short circuit protection, and overheat protection. Do not bypass these safety features.
- **Water Temperature:** Be aware of high water temperatures in boiler systems. Allow the system to cool before handling components.
- **Leak Prevention:** Ensure all plumbing connections are secure and watertight to prevent leaks.
- **Ventilation:** Ensure adequate ventilation around the pump and boiler system.

3. Product Overview

The LDGSUPH UPS15-50/60 is a universal wall-mounted boiler water pump designed for circulating water within boiler systems. Its primary function is to ensure even heat distribution and improve thermal efficiency by continuously moving water. It also aids in eliminating air bubbles, preventing dry burning within the boiler.
This pump features a robust motor, commonly available in AC or DC variants. AC motors typically use power frequency for speed control, while DC motors adjust speed via voltage regulation. Modern designs often incorporate intelligent control technology, such as frequency conversion speed regulation, allowing the pump to automatically adjust its operating speed based on boiler load changes, thereby enhancing energy efficiency.



Figure 3.1: Front-side view of the LDGSUPH UPS15-50/60 Universal Boiler Water Pump, showing the main housing and electrical connection box.



Figure 3.2: Detailed view of the pump's control panel and specification label, indicating voltage, frequency, current, power, and IP rating.



Figure 3.3: Side view of the pump, illustrating the compact design and connection points.

4. Setup and Installation

Installation of the LDGSUPH UPS15-50/60 pump should only be carried out by a certified technician to ensure safety and compliance with all applicable regulations.

4.1. Pre-Installation Checks

- Verify that the pump model matches the system requirements.
- Inspect the pump for any visible damage from shipping.
- Ensure all necessary tools and fittings are available.

4.2. Mounting

- Choose a suitable location for wall-mounting, ensuring it is stable, level, and accessible for maintenance.
- Mount the pump securely using appropriate fasteners. Ensure the pump's orientation allows for proper flow and air bleeding.

4.3. Plumbing Connections

- Connect the pump to the boiler's circulation lines. Ensure the flow direction indicated on the pump matches the system's flow.
- Use appropriate sealing materials (e.g., PTFE tape or pipe sealant) on all threaded connections to prevent leaks.
- Tighten connections firmly but avoid over-tightening, which can damage fittings.

4.4. Electrical Wiring

- Ensure the main power supply to the boiler system is OFF.
- Connect the pump's electrical wiring to the boiler's control circuit according to the wiring diagram provided with your boiler and local electrical codes.
- Ensure proper grounding to prevent electrical hazards.
- Secure all electrical connections within the pump's terminal box.

5. Operating Instructions

Once installed and all connections are verified, the pump is ready for operation.

5.1. Initial Startup

- Before powering on, ensure the boiler system is filled with water and properly vented to remove air.
- Restore power to the boiler system and the pump.
- The pump should start circulating water. Listen for unusual noises, which may indicate air in the system or an obstruction.
- Bleed any remaining air from the system as per your boiler manufacturer's instructions.

5.2. Normal Operation

The pump is designed for continuous operation within the boiler system. If your model features intelligent control (e.g., frequency conversion speed regulation), it will automatically adjust its speed to optimize circulation based on the boiler's demand, enhancing energy efficiency.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your pump. Always disconnect power before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the pump and boiler system annually.
- **Check for Leaks:** Periodically inspect all plumbing connections for signs of leaks. Address any leaks immediately.
- **Listen for Unusual Noises:** Pay attention to any changes in pump noise, which could indicate wear, air in the system, or blockages.
- **Clean External Surfaces:** Keep the exterior of the pump clean and free from dust and debris to ensure proper heat dissipation.
- **Winterization (if applicable):** If the boiler system is shut down for an extended period in freezing temperatures, ensure the system, including the pump, is properly drained or protected with antifreeze as per boiler manufacturer guidelines.

7. Troubleshooting

Before attempting any troubleshooting, ensure the power supply is disconnected. If you are unsure about any step, contact a qualified technician.

- **Pump Does Not Start:**

- Check power supply to the pump.
- Verify electrical connections are secure.
- Check for tripped circuit breakers or blown fuses.
- Ensure the boiler control system is calling for heat and activating the pump.

- **Pump Runs But No Circulation:**
  - Check for airlock in the system; bleed air if necessary.
  - Inspect for closed valves in the circulation path.
  - Check for blockages in the pump or piping.
- **Unusual Noise or Vibration:**
  - Air in the system (bleed air).
  - Loose mounting bolts (tighten securely).
  - Debris inside the pump (requires professional inspection and cleaning).
  - Worn bearings (requires professional service).
- **Pump Overheats:**
  - Ensure adequate water flow through the pump.
  - Check for blockages or closed valves.
  - Verify proper voltage supply.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician or the manufacturer for assistance.

8. Specifications

Feature	Specification
Model	UPS15-50/60 (UPS 15-60 CESA01)
Voltage	230V~ (as per product label)
Frequency	50Hz (as per product label)
IP Rating	IP44 (as per product label)
Max. Pressure	0.3MPa (as per product label)
Item Weight	1.76 ounces
Package Dimensions	0.39 x 0.39 x 0.39 inches
Manufacturer	lihuanxiaodian
ASIN	B0GN2QF2CF

Note: Item weight and package dimensions provided are from product data and may represent shipping or packaging details rather than the physical pump's exact measurements.

9. Warranty and Support

For warranty information, technical support, or service inquiries regarding your LDGSUPH UPS15-50/60 Universal Boiler Water Pump, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

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