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## EBARA 25LPD5.15

# EBARA LPD Type Line Pump

MODEL: 25LPD5.15 INSTRUCTION MANUAL

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### 1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the EBARA LPD Type Line Pump, Model 25LPD5.15. Please read this manual thoroughly before using the product and keep it for future reference.

### 2. Safety Information

#### Important Safety Instructions:

- Always disconnect power before performing any maintenance or inspection.
- Ensure proper grounding to prevent electrical shock.
- Do not operate the pump with damaged wiring or components.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Refer to local electrical codes and regulations for installation.

### 3. Product Overview

The EBARA LPD Type Line Pump 25LPD5.15 is a compact and lightweight inline pump designed for various industrial and commercial applications. Its inline configuration allows for direct installation within existing piping systems, minimizing the required installation space. The design also facilitates easy disassembly and inspection without the need to remove the entire piping.

#### Key Features:

- **Compact and Lightweight:** Inline design saves space.
- **Easy Maintenance:** Disassembly and inspection possible without removing piping.
- **Versatile Applications:** Suitable for cold/hot water circulation, various machine sets, and general water supply.



Figure 1: EBARA LPD Type Line Pump 25LPD5.15. This image shows the compact, inline design of the pump, highlighting its integration capability within a piping system.

## 4. Setup and Installation

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### 4.1 Unpacking and Inspection

- Carefully remove the pump from its packaging.
- Inspect the pump for any visible damage that may have occurred during transit.
- Verify that all components listed in the packing list are present.

### 4.2 Mounting

- The LPD type pump is designed for inline installation directly into the piping system.
- Ensure the mounting location is stable, level, and can support the weight of the pump and associated piping when filled with liquid.
- Allow sufficient space around the pump for ventilation and future maintenance access.

### 4.3 Piping Connections

- Connect the pump to the piping system, ensuring all connections are tight and leak-free.
- Use appropriate sealing materials for pipe threads.
- Ensure the piping is properly supported to prevent strain on the pump casing.

### 4.4 Electrical Connections

- Connect the pump to a three-phase 200/220V power supply, matching the frequency of 50Hz.
- All electrical work must be performed by a qualified electrician in accordance with local codes.
- Ensure correct wiring for motor rotation.

## 5. Operating Instructions

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## 5.1 Pre-Operation Checks

- Confirm all piping connections are secure and there are no leaks.
- Ensure the pump casing is filled with the liquid to be pumped (priming).
- Check that the power supply matches the pump's requirements.

## 5.2 Starting the Pump

- Open the discharge valve gradually after starting the pump.
- Monitor for unusual noises or vibrations. If detected, shut down immediately and investigate.

## 5.3 Stopping the Pump

- Close the discharge valve gradually.
- Turn off the power supply to the pump.

## 5.4 Liquid Handling

This pump is designed to handle clean water within a temperature range of 0°C to 100°C. Do not use it for liquids outside this specification or for corrosive/abrasive fluids unless specifically approved by EBARA.

# 6. Maintenance

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Regular maintenance is crucial for the longevity and optimal performance of your EBARA pump. Always disconnect power before beginning any maintenance procedures.

## 6.1 Routine Inspection

- Check for leaks around the shaft seal and piping connections.
- Listen for unusual noises or vibrations during operation.
- Monitor motor temperature.

## 6.2 Disassembly and Inspection (without removing piping)

A key feature of the LPD pump is the ability to disassemble and inspect internal components without detaching the pump from the main piping. Refer to the detailed exploded view diagram (not provided in this document, refer to official EBARA service manual) for specific steps. This typically involves:

1. Shutting down the pump and isolating it from the power supply.
2. Draining the pump casing.
3. Removing the motor and impeller assembly from the casing while the casing remains inline.
4. Inspecting the impeller, mechanical seal, and bearings for wear or damage.
5. Replacing worn parts as necessary.
6. Reassembling the pump, ensuring all seals are correctly seated.

## 6.3 Mechanical Seal Replacement

The pump uses a mechanical seal. If leaks persist from the shaft seal, the mechanical seal may need replacement. This is a precision component and should be handled with care. Consult a qualified technician for replacement if you are unfamiliar with the procedure.

# 7. Troubleshooting

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This section provides solutions to common issues. For problems not listed here, contact EBARA technical support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump does not start	No power supply Motor overload Impeller jammed	Check power connection and circuit breaker Reset overload protector Inspect impeller for obstructions
Low flow or no discharge	Pump not primed Suction line air leak Clogged impeller/piping	Ensure pump is fully primed Check suction connections for leaks Clean impeller and piping
Excessive noise or vibration	Cavitation Worn bearings Misalignment	Check suction conditions, ensure adequate liquid supply Inspect and replace bearings Check pump and motor alignment
Shaft seal leakage	Worn mechanical seal Improper installation	Replace mechanical seal Reinstall mechanical seal correctly

## 8. Specifications

Parameter	Value
Manufacturer	EBARA Corporation
Model Name	25LPD5.15
Caliber (Nominal Diameter)	25 mm
Frequency	50 Hz
Output	0.15 kW
Power Voltage	Three-phase 200/220 V
Handling Liquid	Clean water
Liquid Temperature Range	0°C to 100°C
Total Suction Head	-6 m (at 20°C)
Impeller Type	Closed
Shaft Seal	Mechanical seal
Bearing	Sealed ball bearing (inside motor)
Type / Protection Method	Drip-proof protection type / IP22 (indoor)

## 9. Warranty and Support

For warranty information, technical support, or to order replacement parts, please contact your authorized EBARA distributor or visit the official EBARA website. Keep your purchase receipt and product model number (25LPD5.15) handy when contacting support.



