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LDGSUPH PLD-12230DM-14/15

LDGSUPH Drain Pump PLD-12230DM-14/15 Instruction Manual

Model: PLD-12230DM-14/15 | **Part Number:** 4000121
Compatible with Daikin VRV Indoor Units: FXDQ25PBVE4, FXDRQ32PDVM

1. Product Overview

The LDGSUPH Drain Pump PLD-12230DM-14/15 is an essential accessory designed for efficient condensate removal from Daikin VRV indoor air conditioning units, specifically models FXDQ25PBVE4 and FXDRQ32PDVM. This electric drain pump ensures the smooth operation of your air conditioning system by effectively managing and discharging accumulated condensate.

Key Features:

- **Fast Drainage:** Quickly handles condensate, maintaining system efficiency.
- **Quiet Operation:** Utilizes silent technology for minimal noise disruption.
- **High-Lift Capacity:** Capable of lifting water to higher positions for flexible drainage layouts.
- **Anti-Clog Design:** Internal structure prevents debris accumulation, reducing blockages.
- **Multiple Safety Protections:** Equipped with electrical leakage and overload protection for safe use.

2. Safety Information

Please read all safety instructions carefully before installation and operation to prevent injury or damage. Keep this manual for future reference.

- **Electrical Safety:** Ensure the power supply is disconnected before any installation, maintenance, or troubleshooting. All electrical connections must be performed by a qualified electrician in accordance with local codes and regulations.
- **Overload Protection:** The pump is equipped with overload protection. Do not bypass or tamper with this safety feature.
- **Water Safety:** Do not immerse the pump in water. Ensure all connections are watertight to prevent leaks.
- **Proper Installation:** Install the pump on a stable, level surface. Ensure hoses are not kinked or obstructed.
- **Children and Pets:** Keep the product out of reach of children and pets.

3. Package Contents

Verify that all components are present and undamaged upon opening the package. If any items are missing or damaged, contact your supplier immediately.

- 1 x LDGSUPH Drain Pump (Model: PLD-12230DM-14/15)
- 1 x Drain Hose (pre-attached or separate)
- Electrical Wiring/Connector



Figure 3.1: Drain pump with its original packaging box, showing the part number 4000121.



Figure 3.2: The complete drain pump assembly, including the pump unit, clear drain hose, and electrical connector.

4. Setup and Installation

Installation should be performed by a qualified technician. Refer to the Daikin VRV indoor unit's service manual for specific connection points and procedures.

1. **Power Disconnection:** Ensure the main power supply to the air conditioning unit is completely disconnected before beginning installation.
2. **Mounting:** Securely mount the drain pump in an appropriate location within or near the indoor unit, ensuring it is level and accessible for maintenance.
3. **Condensate Inlet Connection:** Connect the condensate drain line from the indoor unit to the inlet port of the drain pump. Ensure a tight, leak-free connection.
4. **Discharge Outlet Connection:** Connect the discharge hose from the pump's outlet port to a suitable drainage system. Ensure the hose has a continuous downward slope and is free of kinks or obstructions. The high-lift capacity allows for flexibility in routing.
5. **Electrical Connection:** Connect the pump's electrical wiring to the designated power terminals on the indoor unit's control board, following the wiring diagram provided in the Daikin unit's manual. Verify correct voltage

(220-240V, 50/60Hz) and polarity.

6. **Leak Test:** After installation, restore power and perform a test run to check for any leaks at the connections and ensure proper pump operation.



Figure 4.1: Front view of the drain pump, showing the condensate inlet and outlet ports.



Figure 4.2: Side view of the drain pump, illustrating the motor housing and potential mounting points.

5. Operating Instructions

The LDGSUPH Drain Pump operates automatically in conjunction with your Daikin VRV indoor unit.

- Once properly installed and connected to the air conditioning unit's power supply, the pump will activate automatically when condensate water reaches a predetermined level within its reservoir.
- The pump will then discharge the water through the connected drain hose until the water level drops, at which point it will automatically shut off.
- Its quiet operation ensures minimal disturbance during use.

6. Maintenance

Regular maintenance is crucial for the longevity and efficient operation of your drain pump. Always disconnect power before performing any maintenance.

- **Monthly Inspection:** Visually inspect the pump, hoses, and connections for any signs of leaks, damage, or blockages.
- **Quarterly Cleaning:** Disconnect the power. Carefully remove the pump's cover (if applicable) and clean any debris, sludge, or mold from the reservoir and float switch mechanism. Use a mild detergent and water. Rinse

thoroughly.

- **Hose Check:** Ensure the drain hoses are clear and free of kinks or obstructions. Flush with clean water if necessary.
- **Electrical Connections:** Periodically check electrical connections for tightness and corrosion.

7. Troubleshooting

If you encounter issues with your drain pump, refer to the following troubleshooting guide. For problems not listed or if solutions do not resolve the issue, contact a qualified technician.

Problem	Possible Cause	Solution
Pump does not operate	No power; Clogged float switch; Motor failure	Check power supply; Clean float switch; Contact technician for motor replacement
Water not draining / Slow drainage	Clogged inlet/outlet; Kinked hose; Pump malfunction	Clean inlet/outlet; Straighten hose; Clean pump reservoir; Contact technician
Unusual noise during operation	Debris in pump; Loose mounting; Worn motor bearings	Clean pump; Secure mounting; Contact technician
Water leakage	Loose connections; Cracked housing/hose	Tighten connections; Inspect for damage and replace parts if necessary

8. Specifications

- **Brand:** LDGSUPH
- **Model Number:** PLD-12230DM-14/15
- **Part Number:** 4000121
- **Type:** Drain Pump, Air Conditioner Parts
- **Application:** VRV Indoor Unit
- **Compatible Indoor Models:** Daikin FXDQ25PBVE4, FXDRQ32PDVM
- **Voltage:** 220-240V
- **Frequency:** 50/60Hz
- **Manufacturer:** Lshiliang
- **ASIN:** B0GLZZM882



Figure 8.1: Close-up view of the pump motor label, indicating voltage and frequency specifications.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your original point of purchase or the manufacturer directly. Keep your purchase receipt as proof of purchase.

For further assistance, please refer to the contact information provided by LDGSUPH or your authorized dealer.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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