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> [BlueDiamond](#) /

> BlueDiamond MicroBlue Condensate Removal Pump User Manual

## BlueDiamond X85-003

# BlueDiamond MicroBlue Condensate Removal Pump User Manual

Model: X85-003

## 1. PRODUCT OVERVIEW

The BlueDiamond MicroBlue is a highly efficient and reliable condensate removal pump designed for mini-split AC systems up to 18,000 BTU (1.5 tons). Its compact design and multi-position installation capability make it versatile for various setups. The pump features ultra-quiet operation (17 dBA) and utilizes advanced thermistor-level sensing technology to ensure consistent performance and prevent issues like stuck or sunken float switches. It is capable of running both wet and dry, offering outstanding reliability.



Image 1.1: The BlueDiamond MicroBlue Condensate Removal Pump unit with its separate reservoir and connecting cable.

## 2. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before installing, operating, or maintaining the BlueDiamond MicroBlue pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power to the AC unit and the pump before performing any installation, maintenance, or troubleshooting.
- Ensure the power supply voltage matches the pump's specified voltage (115-230 Volts).
- Do not operate the pump with damaged electrical cords or plugs. Replace immediately if damaged.
- Install the pump in a location protected from direct water spray, extreme temperatures, or corrosive environments.
- Keep the pump and its components out of reach of children and unauthorized personnel.
- All electrical connections should be performed by a qualified electrician in accordance with local electrical codes.
- Do not submerge the pump unit in water. Only the reservoir is designed to hold water.

### 3. PACKAGE CONTENTS

Your BlueDiamond MicroBlue pump package includes the following components:

- BlueDiamond MicroBlue Condensate Removal Pump Unit
- Reservoir with thermistor sensor
- Connecting cable (pump to reservoir)
- Power cable
- Installation accessories (e.g., tubing, connectors, mounting hardware)



Image 3.1: The MicroBlue pump and reservoir as packaged, indicating included components.

### 4. INSTALLATION AND SETUP

## 4.1 Mounting the Pump

The MicroBlue pump is designed for flexible installation and can be mounted in any orientation (horizontal or vertical). Choose a location that is easily accessible for maintenance and close to the AC unit's condensate drain outlet. Secure the pump unit firmly using the provided mounting hardware to prevent vibration during operation.



Image 4.1: Example of the MicroBlue pump installed within a protective conduit, demonstrating its compact fit.

## 4.2 Connecting the Drain Line

Connect the condensate drain line from your mini-split AC unit to the inlet port of the MicroBlue pump's reservoir. Ensure the connection is secure and watertight to prevent leaks. The reservoir should be positioned to collect condensate by gravity from the AC unit.

## 4.3 Discharge Line Connection

Connect the discharge tubing from the pump's outlet to a suitable drain point. The pump is capable of lifting water up to 16 feet (5 meters) vertically. Ensure the discharge line is free of kinks, sharp bends, or obstructions that could impede water flow. The discharge line should ideally have a continuous downward slope to the drain point after the initial vertical lift.

## 4.4 Electrical Connection

Connect the pump's power cable to a dedicated electrical outlet that provides the correct voltage (115-230 Volts). Ensure the circuit is protected by an appropriate circuit breaker. It is recommended to consult a qualified electrician for proper electrical installation.

## 5. OPERATION

The BlueDiamond MicroBlue pump operates automatically based on the condensate water level in its reservoir. It utilizes advanced thermistor-level sensing technology, which provides reliable detection without the moving parts of traditional float switches, thus preventing issues like stuck or sunken floats.

When the condensate water in the reservoir reaches the activation level, the thermistor sensor triggers the

pump to turn on and discharge the water. The pump will continue to run until the water level drops below the deactivation point. The MicroBlue is designed to run both wet and dry, ensuring outstanding reliability and preventing damage if the reservoir temporarily runs out of water.

With an ultra-quiet operation of only 17 dBA, the pump's noise output is minimal, making it suitable for residential and commercial environments where quiet performance is desired.

## 6. MAINTENANCE AND CARE

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Regular maintenance ensures the longevity and optimal performance of your BlueDiamond MicroBlue pump. The pump is designed to handle sediment and debris, reducing the need for frequent filter cleaning.

### 6.1 Regular Inspection

Periodically inspect the pump, reservoir, and all connected tubing for any signs of blockages, leaks, or damage. Ensure that the reservoir is clean and free of excessive sludge or debris buildup. Check that all connections remain secure.

### 6.2 Cleaning the Reservoir

If significant buildup is observed in the reservoir, disconnect the pump from the power supply. Carefully detach the reservoir from the pump unit and rinse it thoroughly with clean water. You may use a mild detergent if necessary, but ensure it is completely rinsed off. Reinstall the reservoir securely, ensuring all connections are tight before restoring power.

## 7. TROUBLESHOOTING COMMON ISSUES

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If you encounter issues with your BlueDiamond MicroBlue pump, refer to the following troubleshooting guide:

### 7.1 Pump Not Running

- **No Power:** Ensure the pump is properly plugged into a live electrical outlet and that the circuit breaker has not tripped.
- **Incorrect Voltage:** Verify that the supply voltage matches the pump's requirements (115-230 Volts).
- **Insufficient Water Level:** Check if there is enough condensate water in the reservoir to activate the thermistor sensor.
- **Blocked Inlet/Outlet:** Inspect the condensate inlet line and the pump's discharge line for any blockages or kinks.

### 7.2 Water Not Discharging / Pump Running Continuously

- **Discharge Line Obstruction:** Check the discharge line for any blockages, kinks, or freezing.
- **Excessive Lift Height:** Confirm that the vertical lift height to the drain point does not exceed the pump's maximum lifting capacity of 16 feet (5 meters).
- **Air Leak in Suction:** Ensure all connections to the reservoir and pump inlet are airtight.
- **Pump Malfunction:** If all other checks fail, the pump unit may require professional inspection or replacement.

## 8. TECHNICAL SPECIFICATIONS

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Feature	Specification
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<b>Feature</b>	<b>Specification</b>
Model Number	X85-003
Brand	BlueDiamond
Manufacturer	Charles Austen Pumps Ltd
Capacity	Up to 18,000 BTU / 1.5 Ton AC Systems
Maximum Flow Rate	1.3 Liters Per Hour (1.3 GPH)
Maximum Lifting Height	16 Feet (5 Meters)
Voltage	115-230 Volts
Power Source	Corded Electric
Noise Level	17 dBA (Ultra Quiet)
Sensing Technology	Thermistor-level sensing
Item Weight	1.19 pounds
Package Dimensions	10.31 x 6.1 x 1.85 inches
Country of Origin	USA

# MICROBLUE®



**3** YEAR WARRANTY

## PERFORMANCE

17dba

MAX FLOW	MAX HEAD	MAX LIFT
5 L/ HOUR	5 METRES	2 METRES

With no additional silencing accessories required, not only is the MICROBLUE® a silent running pump but it can also be mounted in any orientation whilst operating both wet and dry continuously. The MICROBLUE® is a dual voltage pump which uses proven thermistor level sensing technology to remove the risk of stuck or sunken float switches.



UNIT  
3.5 KW

## SENSING OPTION

MICROBLUE® pump available with:

RESERVOIR	TEMPERATURE SENSOR
X85-001 (HLA-PACK) X85-002 (FSA PACK)	X85-005



**PUMPS DEBRIS**

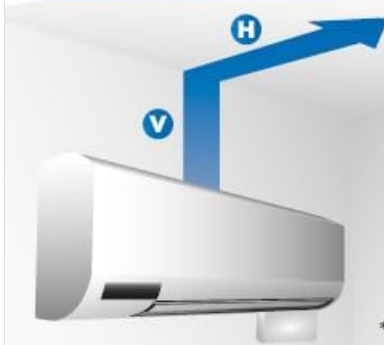
The MICROBLUE™ is the only ductless pump on the market that can remove sediment/ debris with no need of filters or regular servicing intervals.



**NO SILENCING DEVICES**

Smooth flow rate from the MICROBLUE™ eliminates the necessity for any pulsating free tubing and silencing devices.

## DISCHARGE PIPE RUN

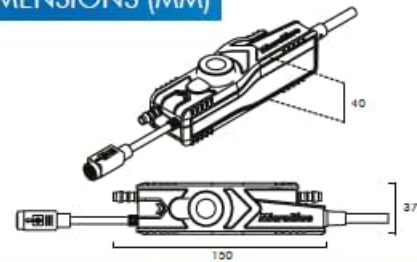


\*3.5 KW MAX

## PERFORMANCE



## DIMENSIONS (MM)



V (VERTICAL)	H (HORIZONTAL)
5 M	0 M
4 M	3 M
3 M	6 M
2 M	9 M
1 M	12 M

The MICROBLUE® can be mounted in any orientation up to 5m away from the air conditioning unit.

Image 8.1: Detailed specifications and performance graph for the MicroBlue pump.

## 9. WARRANTY INFORMATION

The BlueDiamond MicroBlue Condensate Removal Pump is backed by a 3-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. Please retain your original purchase receipt as proof of purchase for any warranty claims.

For detailed warranty terms, conditions, and exclusions, please refer to the official BlueDiamond website or contact customer support.

## 10. CUSTOMER SUPPORT

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For technical assistance, troubleshooting advice, or warranty inquiries regarding your BlueDiamond MicroBlue pump, please contact our customer support team.

You can find comprehensive support resources and contact information on the manufacturer's official website:

[www.bluediamondpump.com](http://www.bluediamondpump.com)

Email: [info@bluediamondpump.com](mailto:info@bluediamondpump.com)