

# LCU-MS SERIES

Mini-Split Condensate Pump

# Liberty Pumps®

A Family and Employee Owned Company

**For removal of condensate from wall mount, ductless mini-split air conditioners up to 23.5 Btu [7 kW], fan coils, and suspended ceiling air conditioners**



**Model LCU-MS**

## Pump Features

- Quiet operation
- Solid-state switch technology
- Normally-closed relay rated at 3A resistive - 250V alarm
- Adhesive hook and loop tape, double-sided foam tape, and zip ties are supplied to secure pump and reservoir
- 5/16" (7.9 mm) pump discharge outlet
- 5' (1.5 m) power cable
- 5' (1.5 m) communications cable
- 5' (1.5 m) high water safety switch cable
- 5' (1.5 m) hose tubing

## Reservoir Features

- Clear reservoir allows visual inspection of water level, float, and filter
- Hall effect ON/OFF level sensors with high water safety sensor
- Extra-large filter allows for longer intervals between cleaning
- 1/2" (14 mm) drain hose adapter
- Easy to open reservoir for quick maintenance

## Models

**LCU-MS** Mini-split condensate pump

**LCU-MS2** Mini-split condensate pump with line cover kit



Conforms to ANSI/UL STD. 778  
Certified to CAN/CSA STD. C22.2 NO.108  
Made in South Korea

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# LCU-MS Series

## Installation

- Two-piece design allows the reservoir to be placed within the air handler and the pump controller outside the air handler
- Reservoir connected via tubing and communication wire to motor
- Pump must be within 6.5' (2 m) of reservoir and oriented in any position
- Reservoir must be positioned flat and horizontally
- Pump can be installed in the following places:
  - False ceiling above air conditioner
  - Behind wall mount air handler
  - In plastic conduit or line-set channel

## Motor Specifications

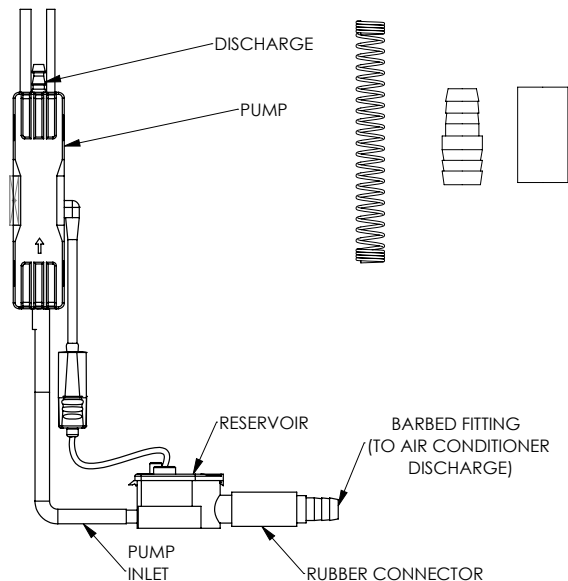
100~240V 60 Hz 0.19A 30W

**Thermal Protection:** 176°F (80°C)

**Ambient Temperature Range:** 32°F - 122°F (0°C - 50°C)

**Maximum Water Temperature:** 140°F (60°C)

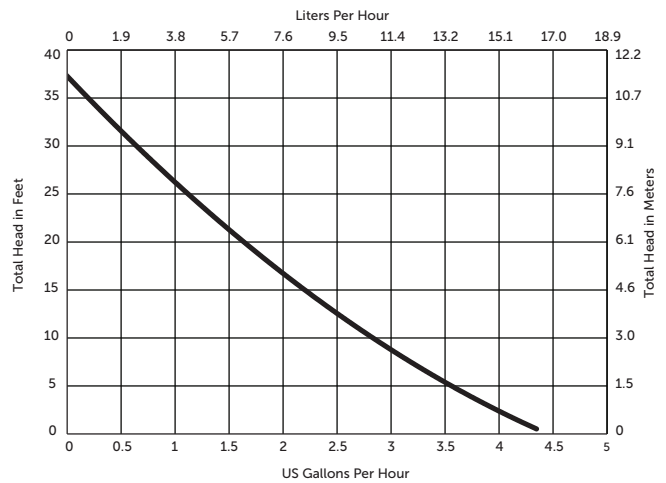
## Dimensional Data



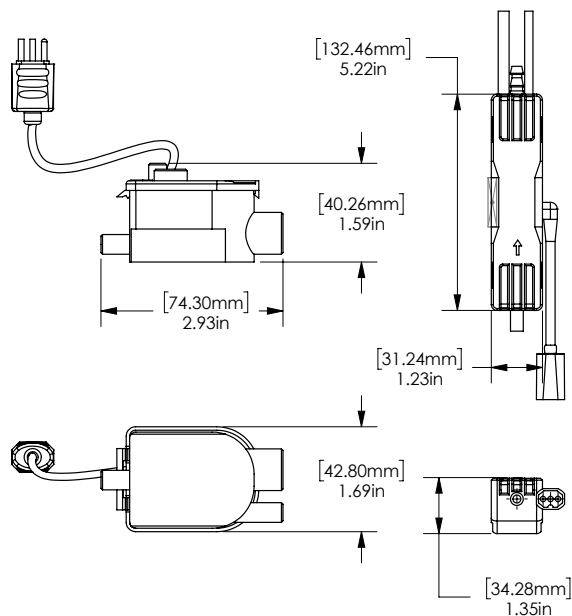
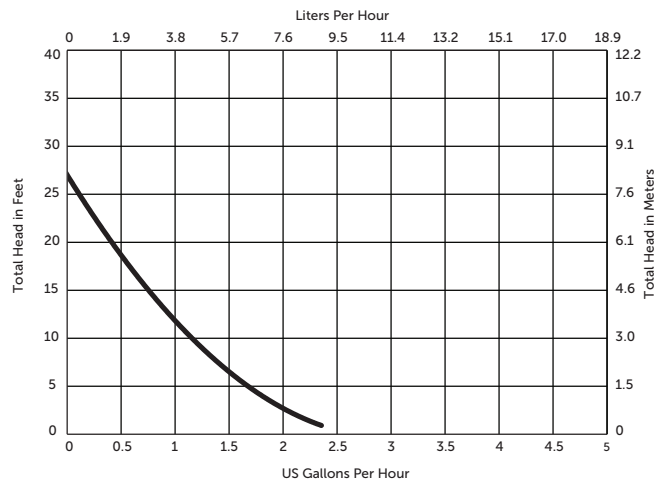
## Performance Curves

60 Hz

230V



115V



# Model LCU-MS2 Pump and Line Cover Kit



**Model LCU-MS2**

## Line Cover Kit Features

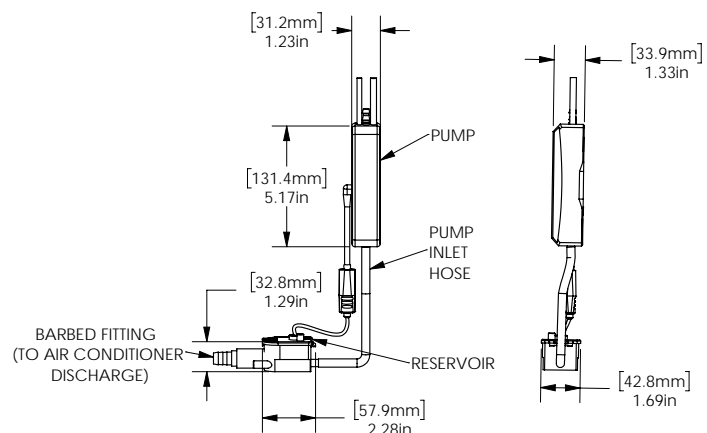
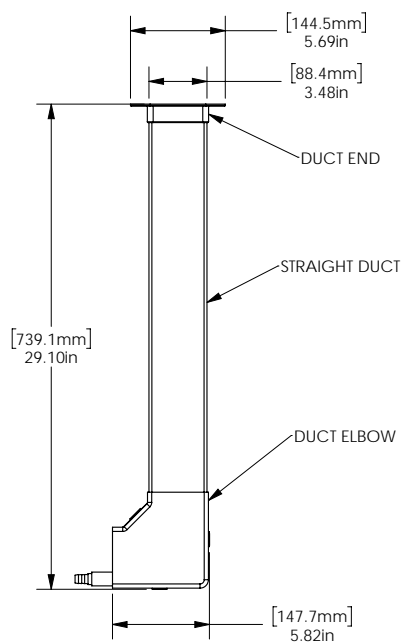
- Decorative line set cover with 90° elbow
- Provides space to install pump, reservoir, wiring, and hoses
- Ceiling plate included
- Right or left-side installation
- Air conditioner trim and bracket
- Easy access to pump
- Cable ties to secure line set
- Reservoir mounts in the 90° elbow (must be level)

## Dimensional Data

**Inside Dimension:** 1.6" x 3.1" (40.6 x 78.7 mm)

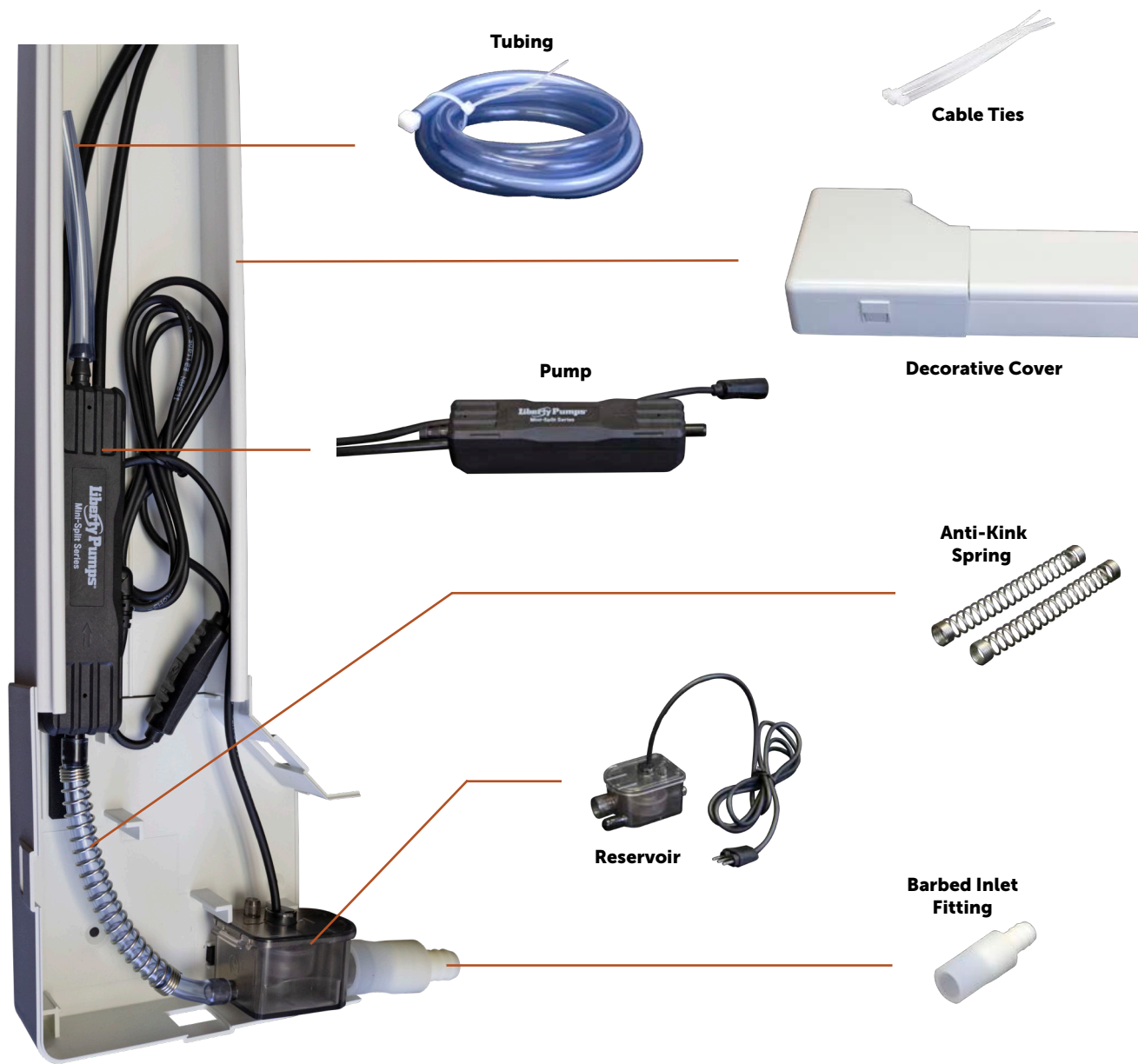
**Straight Line Cover:** 23.5" (60 cm)

**Room Inside Line Cover:** 3/8" and 5/8" line set pipe



# LCU-MS Series

## LCU-MS2 Parts



## Specifications

	DISCHARGE SIZE	MAX DISCHARGE HEAD	MAX SUCTION HEAD	WEIGHT	DIMENSIONS
Pump	5/16" (7.9 mm)	26.2' (8 m)	6.6' (2 m)	.9 lbs (.4 kg)	1.3" x 1.26" x 5.2" 33 mm x 32 mm x 132 mm
Reservoir	-	-	-	.2 lbs (.1 kg)	1.6" x 1.7" x 2.9" 41 mm x 43 mm x 74 mm