# Dial Condensate Pump



**OPERATION MANUAL** 

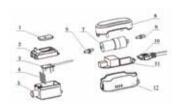
# **Safety and Pump Application**

- Disconnect power supply to the installed unit (e.g. mini-split air conditioning unit) and to the pump before installing, removing or servicing the pump.
- This pump is certified for water applications only.
- This pump cannot be used to service swimming pool or marine applications.
- If the electrical or communication cable is damaged, it must be replaced with a cable from the manufacturer or an authorized service agent.
- Do not operate this pump dry (without water).
- Always place the reservoir flat-side down on a level horizontal surface.
- The pump is intended for use in indoor light commercial and residential environment. It is not to be used in an industrial setting and oily or dusty environment.
- This pump cannot be used outdoors.
- This pump is not a submersible pump.



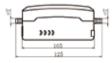


# 1. Pump components

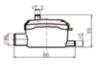


NO	Description	NO	Description
1	Insert board	7	Motor
2	Reservoir cover	8	Pump cover
3	Filter	9	Outlet port
4	Signal pin	10	Power cable
5	Reservoir	11	PCB
6	Inlet port	12	Pump cover

### 2. Dimensions









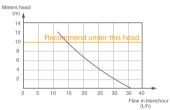
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## 3. Technical specification

Model	CP-M S-36LH-110-230 CP-M S-18LH-110-230
Voltage	100-230V / 50-60Hz
Suction Lift	Max. 2m (6.5ft)
Discharge Head	Max.10m (33ft)
Flow Rate	Max. 36L/h (9.6 GPH)
Tank Capacity	35cc
Mini Splits up to	15KW (45,000 btu/hr)
Sound Level @ 1m	21dbB (A)
Ambient Temperature	0°C - 50°C

# 4. Maximum recommended head(m)

#### FLOW RATE:



# 5. Preventing siphoning advice

Cut discharge tube above water level of evaporator tray and direct end into large pipe, allowing air break (as following picture).



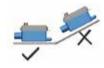
- ① False ceiling
- 2 End of discharge tube
- Water level in drain tray
  Air break
- (5) Top of breather tube

#### 6. Installation

① Ensure correct assembly of the pump cover and signal pin, with the filter in place and the lid clipped firmly on reservoir.



② Secure reservoir horizontally using velcro strips. Next, attach drainage hose from air conditioning unit to drainage inlet.

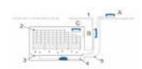




③ Fit breather tube to inlet on reservoir lid.



④ Install the pump unit above the ceiling where possible.



- 1 False ceiling
- Evaporator coil
  Condensate drain tray
- Vinvl tube
- (5) Conduit

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(5) Anti-vibration assembly.



6 Note direction of water flow.



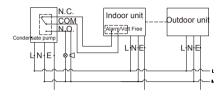
⑦ Connect the 9mm o/d x 6mm i/d tube from the reservoir to the pump. Ensure the length of the tube is less than 2 meters (6.5ft) and secure with cable ties.



® Connect your 9mm o/d x 6mm i/d vinyl discharge tube to the outlet barb on the pump and secure with a cable tie. Direct discharge tube to a proper drainage outlet. Ensure discharge tube does not have kinks or constrictions.



A high-level alarm switch should be wired into the air conditioning signal
 wire, to stop the operation of the air conditioning unit in the event of a pump
 failure.



#### Power:

- (L) Live: Brown
- (N) Neutral: Blue
- (E) Earth: Green&Yellow

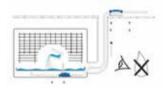
#### Alarm/volt free:

- (N.C.)Normally closed :Green
- (COM) Common: Red
- (N.O.)Normally open : Violet

#### **CAUTION**

Use the wiring diagram above to ensure correct wiring connection.

1 Test pump operation by pouring water into evaporator tray. Check for leaks.



# **Warranty**

This warranty covers all parts with material or manufacturing defects for two (2) years from date of purchase. The buyer's only remedy is the replacement or repair of the defective parts. In no case can labor costs and any consequential damage be cited as a basis for a complaint. Any returned units must be complete and must be accompanied by a written list of the defects identified. We are unable to accept any liability in case of nonconforming installation or noncompliance with the specifications or maintenance recommendations.

## **Maintenance**

- This pump like all mechanical equipment requires maintenance.
- Clean the filter and reservoir thoroughly every 6 months using an anti-bacterial wash. Take care not to damage the signal pins on the reservoir cover.

# **Faults and Troubleshooting**

Problem	Cause	Action
Pump runs all the time	Reservoir is not leveled.  Reservoir is dirty.	Check reservoir to ensure it is installed flat- side down and on a level horizontal surface.  Clean the reservoir and the surface of the signal pins.
Pump stops and starts and makes a loud noise	The water is siphoning back through the pump	Remove air from the tube between the reservoir and the pump after installation and during operation.
Pump runs but does not pump any water	There are air-leaks in the pipe running to the pump.	Check the reservoir and section tube are free of sludge and debris.
Pump does not operate	No power supply.	Check the power supply.
	Incorrect or damaged cable.	Check the power cable.
	Incorrect voltage.	Check the voltage.

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