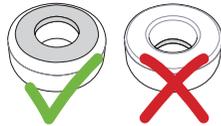


## Servicing:

- This Pump, like all mechanical equipment, requires maintenance.
- Every six months the pump should be removed, and the top (pump unit) should be unclipped from the reservoir. Care should then be taken to clean the filter, float and reservoir thoroughly prior to reassembly. We recommend this is done in the Spring and the Autumn, using an anti-bacterial wash.
- Take great care to replace the float with the magnet facing upwards:



## Troubleshooting:

### Fault: The Pump runs all the time.

1. Is the float positioned with the magnet uppermost?
2. Is the pump located firmly onto the reservoir, with the float located inside the reservoir, around the sensor column?
3. Is there any sludge inside the reservoir, preventing the float from resting on the bottom? (This may be the case if the pump has been in operation for some time. Clean using an anti-bacterial wash).

### Please note:

The pump will only switch off when the float is at the bottom of the reservoir.

### Fault: The Pump stops and starts, and makes a loud noise.

1. The water is siphoning back through the pump. Follow advice in section on preventing siphoning.

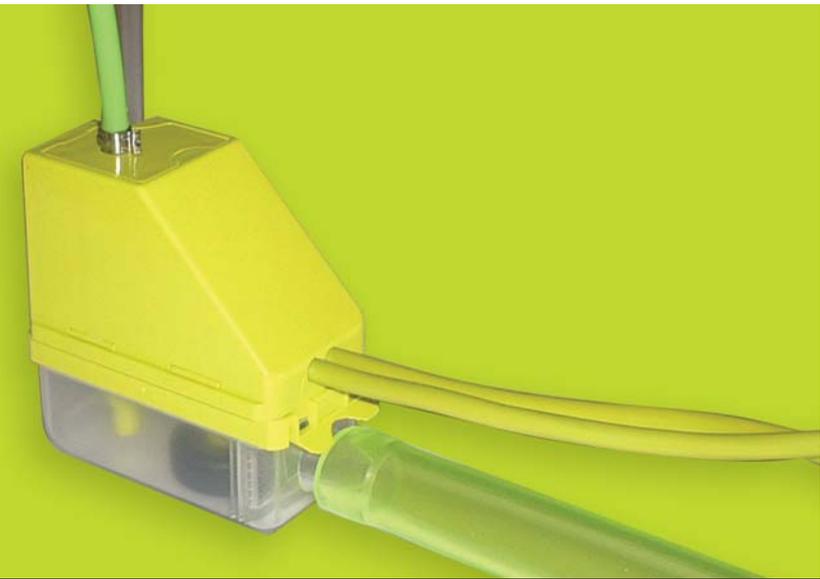
### Fault: The Pump runs but does not pump any water.

1. Are there any air-leaks in the pipe running to the pump?
2. Are the pump reservoir and the inlet tube free from sludge and debris?

### Fault: The Pump isn't operating at all.

1. Is power reaching the pump? Is it correctly wired? Is the voltage correct?
2. Is the pump very hot? A thermal cut-out may have been activated, which will reset automatically once the pump has cooled down.

Aspen Pumps Limited, Apex Way, Hailsham, East Sussex, BN27 3WA, United Kingdom  
Email: [sales@aspenspumps.com](mailto:sales@aspenspumps.com) Web: [www.aspenpumps.com](http://www.aspenpumps.com)  
Tel: +44 (0) 1323 848 842 Fax: +44 (0) 1323 848 847



## mini lime pump

### INSTRUCTION GUIDE



- Completely reversible
- Quick and easy to install
- 3 trunking range options available
- Box contains the pump, elbow, 800mm conduit & ceiling plate
- The Mini Lime will quietly and reliably pump condensation water to a maximum height of 8 metres

### Thank you for buying your new Mini Lime Pump.

This manual gives instructions on the correct installation, so it is important that you follow these instructions carefully. Please record the following information for your future reference:

Serial No.:

Date installed:

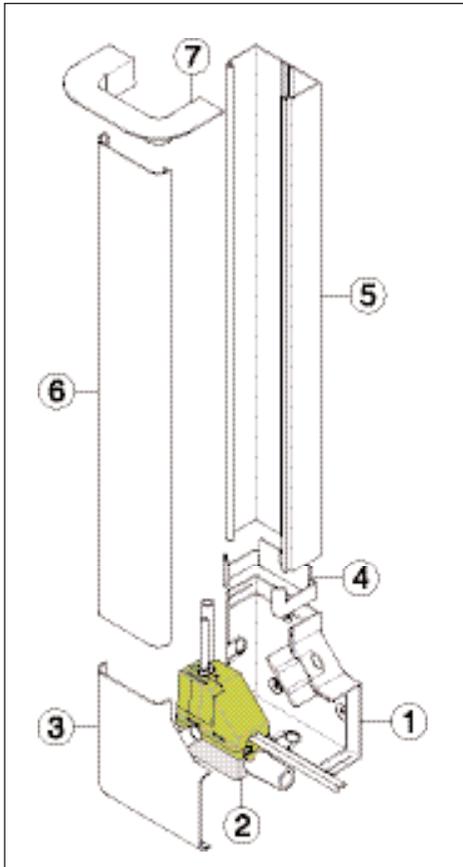
Location of System:

[sales@aspenspumps.com](mailto:sales@aspenspumps.com) [www.aspenpumps.com](http://www.aspenpumps.com)

## Technical Data:

- Power supply 230V AC  
±10% ~20W  
Alternative voltages available
- 1PH 50/60 Hz
- Volt-free N.O., N.C. 8A Resistive  
(5A INDUCTIVE)
- Hall effect semi conductor level sensors
- Water flow rate: 14 litres at zero head
- Maximum recommended head:  
8 metres
- 23dB(A) @ 1 metre & 8 metre head
- Gravity inlet
- Thermally protected pump
- Max pipe size: 5/8" and 3/8"  
(including insulation)
- CE marked

## In the box:



1. 1 x Elbow back
2. 1 x Assembled Mini Lime pump, including:
  - a. Vinyl breather tube (15cm x 9mm o/d)
  - b. lime silicone rubber tube
3. 1 x Elbow front
4. 1 x Internal conduit sleeve (slim-line system only)
5. 1 x Conduit back (800mm)
6. 1 x Conduit front (800mm)
7. 1 x Ceiling plate
8. 1 x 6mm → 4mm reducer
9. 6 x rawl plugs and screws
10. 4 x cable ties

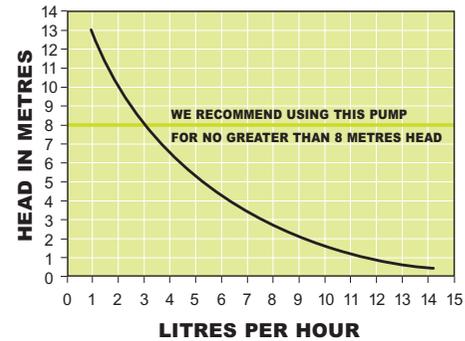
**Please note:**

You will also need several metres of 9mm o/d x 6mm i/d vinyl tube

**Please note:**

Additional Internal conduit sleeves and 800mm lengths of Conduit are available on request (for slim-line system only)

## Typical Performance:

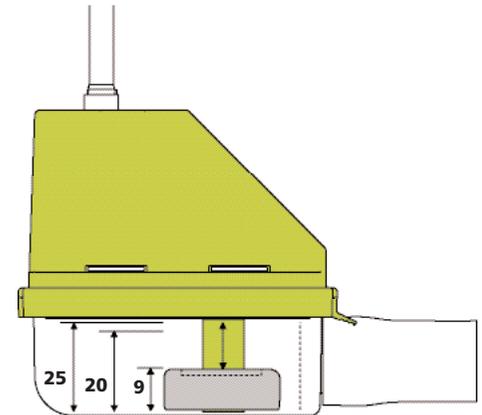


## Operating Levels:

The float inside the reservoir operates at three different heights. These approximate heights are shown in this diagram.

Note - the float must rest in the lowest position (on the floor of the reservoir) to stop the pump running:

- 9mm - Off
- 20mm - On
- 25mm - Safety

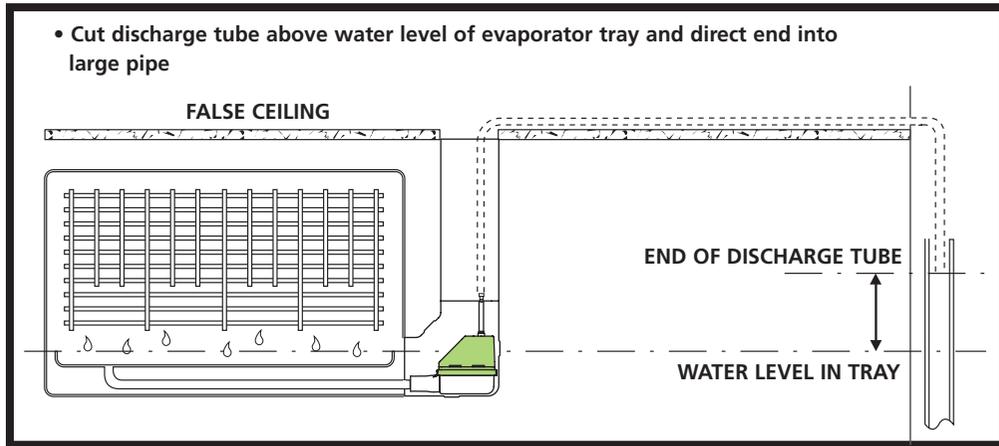


## Product Safety:

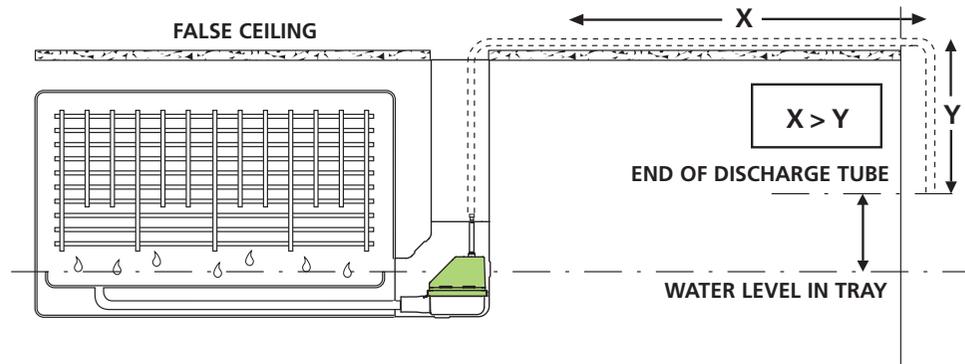
- The Mini Lime Pump has been evaluated for use with water only.
- For correct and safe electrical installation please refer to the instruction manual.
- Ensure the Pump is disconnected from the Mains supply before carrying out any adjustments or servicing.
- The Pump is ideal for most working and living environments. It is not recommended where the environment is oily or particularly dusty.

# Preventing Siphoning: advice

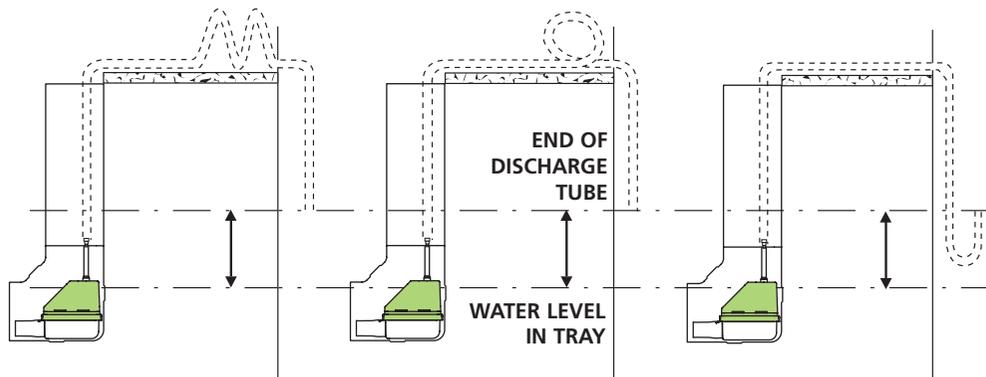
- Cut discharge tube above water level of evaporator tray and direct end into large pipe



- More tube length horizontal than vertical

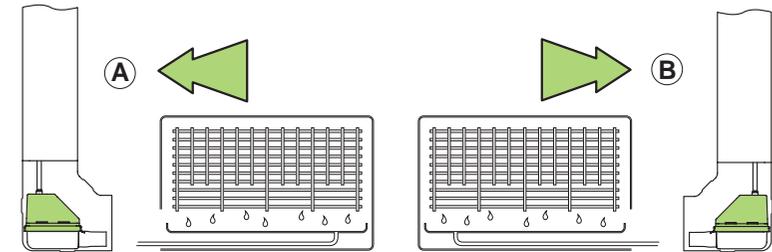


- Create increased resistance
- Add a loop
- Turn back on itself

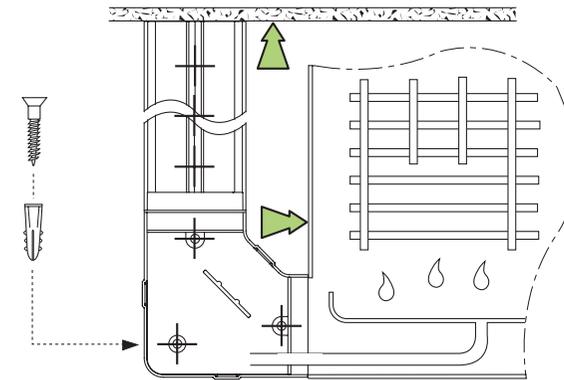


# Installation:

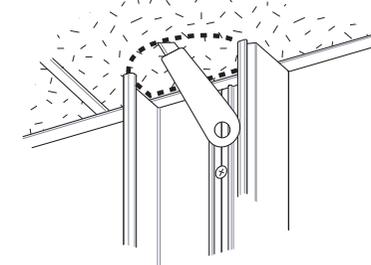
- 1 Decide whether right or left handed system is required



- 2 Disassemble system. Hold 'Elbow back', 'Internal conduit sleeve' and 'Conduit back' against the wall, squaring up to the ceiling and the evaporator unit. Drill fixing holes in wall and secure using rawl plugs and screws supplied.

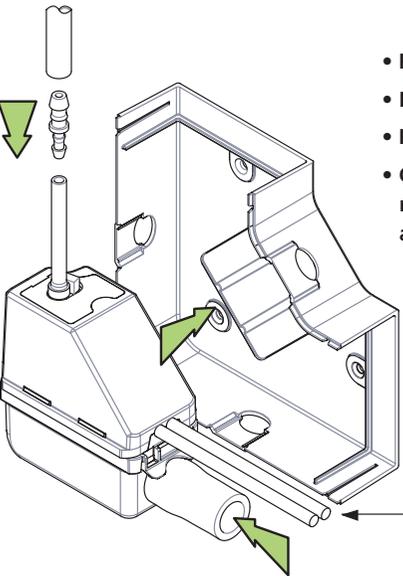


- 3 Cut out area of ceiling above conduit



# Installation:

**4**



- Remove internal sleeve (slim-line system only)
- Locate pump in 'Elbow back'
- Push drain tray hose firmly into lime tube
- Connect pump outlet to 9mm o/d tube using reducer. Then channel this tube to an appropriate drain

<b>POWER:</b>	
EARTH:	Green/Yellow
LIVE:	Brown
NEUTRAL:	Blue

<b>ALARM/VOLT FREE</b>	
COMMON:	Grey
NORMALLY CLOSED:	Purple
NORMALLY OPEN:	Orange

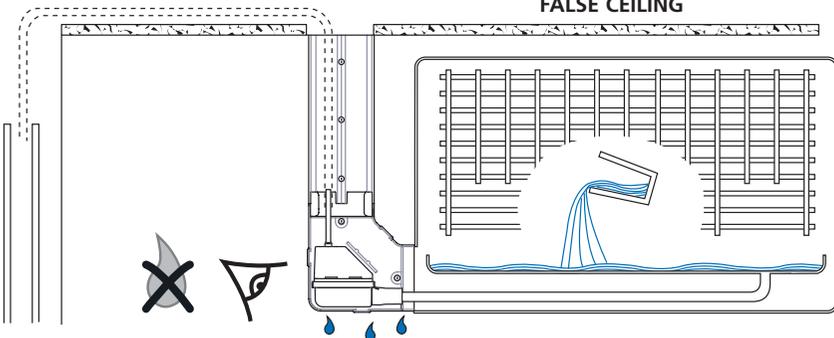
**5** Wire the Mini Lime Pump to the permanent Live, Neutral and Earth terminals of the Evaporator. Install a 1.0 amp in-line fuse between the Mini Lime Pump and the Evaporator.

A high-level alarm switch should be wired into the cooling signal wire, to prevent the continued operation of the Air-conditioning unit in the event of the pump failing. These are volt-free contacts and operate as follows:

**COMMON AND NORMALLY CLOSED** when the water rises to the alarm level the circuit opens.

**COMMON AND NORMALLY OPEN** when the water rises to the alarm level the circuit closes.

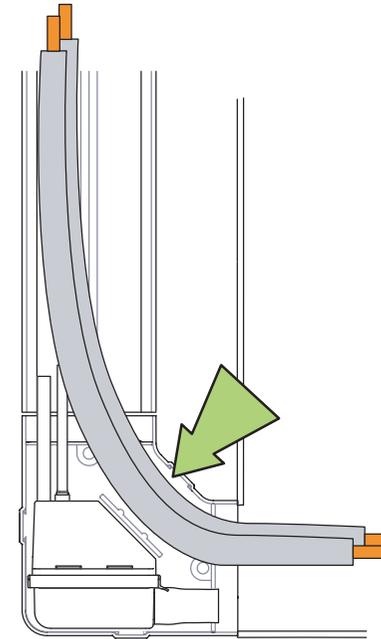
**6** Test pump operation



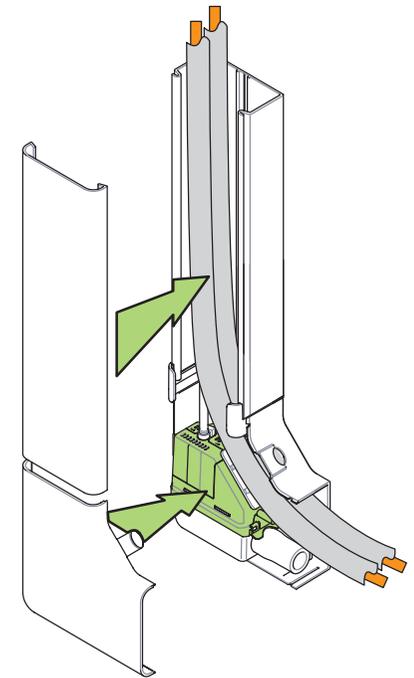
FALSE CEILING

# Installation:

**7** Locate pipes and cables in 'Elbow back' and 'Conduit back'. Ensure breather tube is channelled up inside conduit.



**8** Slide 'Internal sleeve' (slim-line system only) into place and clip 'Elbow front' and 'Conduit front' into position.



**9** Remove backing and push 'Ceiling plate' into position.

