Hi-flow 1L & 2L
Instruction manual

Thank you for purchasing this Airflow Hi-flow pump. This manual gives instructions on the correct installation. It is important that you follow these instructions carefully. This Airflow Pump is designed to collect condensate water from Air Conditioning systems and discharge it up to a recommended maximum 5 metre head.

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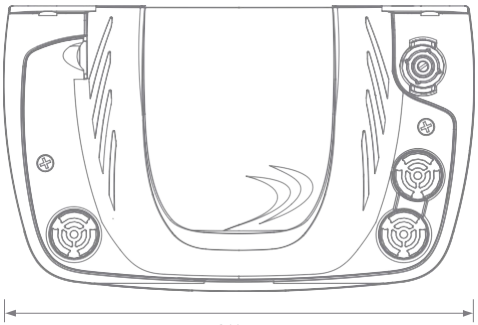
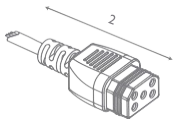
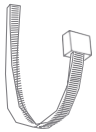


Dimensions		
	HI-FLOW 1L	HI-FLOW 2L
A	99.4 mm	131 mm
B	132 mm	164 mm



x 1



x 2

x 2

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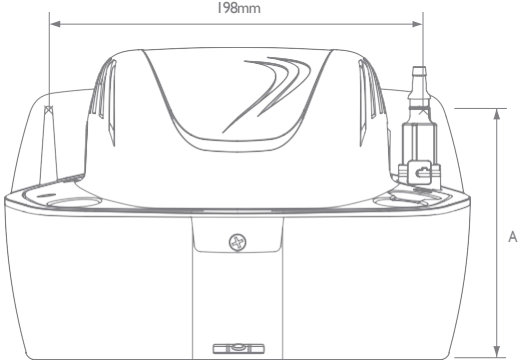
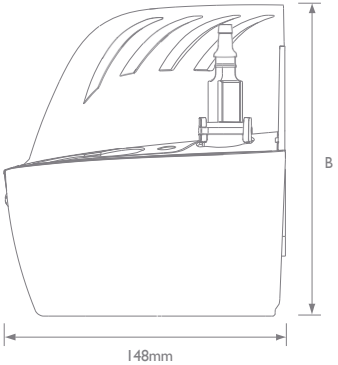
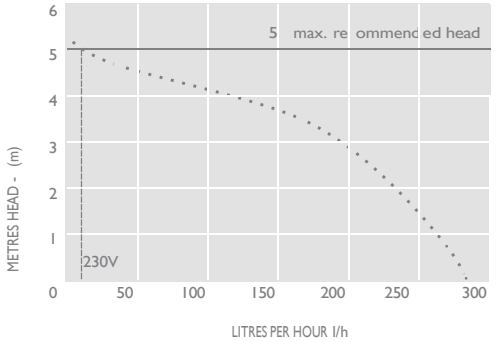




IN THE BOX

- Pump rating: 230V AC, 0.6A
- Max. water flow rate (h @ 0m/ft): 288L/76 US Gal
- Max head: 5m/16.5ft
- Tank Capacity: 1L/2L
- Sound level @ 1m (at 50Hz): 60dB(A)
- Rated: Continuously
- Class: Class I appliance
- Alarm: High level safety switch with 3A volt-free wires and normally closed contacts
- Maximum water temperature: 40ºC / 104ºF
- Weight: 1.75kg
- 3 inlet positions: Ø 27mm
- Outlet size: 6 and 10mm
- Max unit output: 384 kW / 1.3m Btu/h

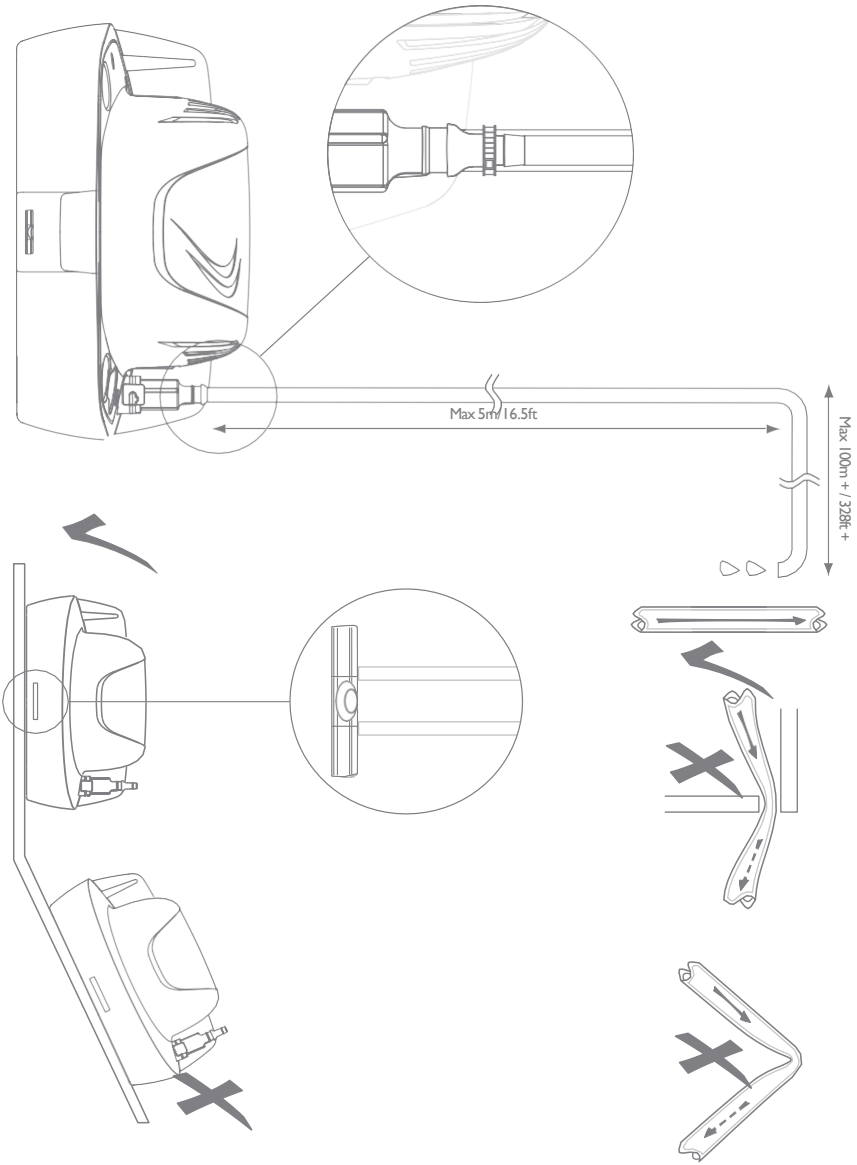


Operation of this pump is via the internal float which activates a micro switch. It also includes a Hi Level Safety Switch (operated by a second internal float) which can be used to stop the air conditioning system in the unlikely event of pump failure.

IMPORTANT: This pump has been designed for the removal of PH neutral condensate water only. It should not be used in swimming pools, marine environments, or environments that are particularly dusty or oily.

This pump must not be run dry and it is not submersible.

WARNING: This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

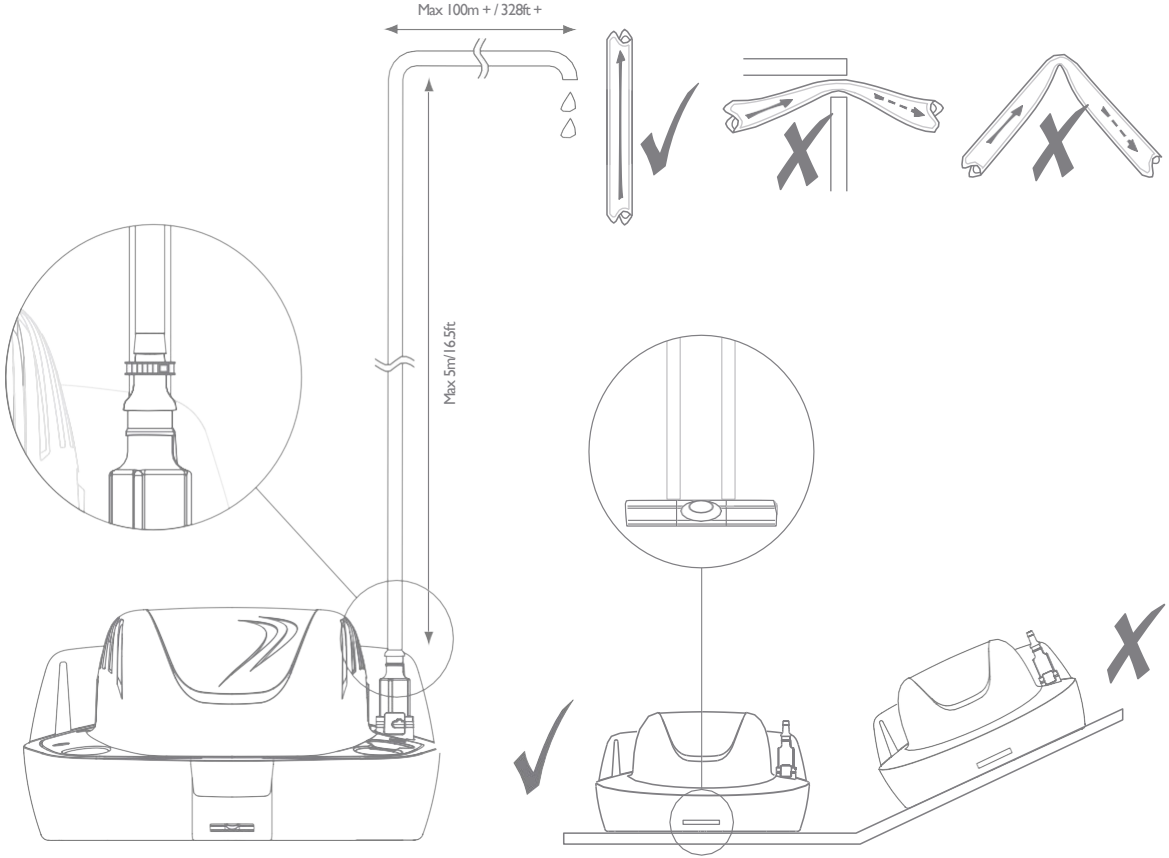

Max 5m/16.5ft
Max 100m+ / 328ft +

The pump is designed to sit level on its base or to be fixed to a vertical surface. A spirit level is built in to the pump's casing to aid levelling the pump. x2 screw holes are provided in the back plate of the pump for fixture to a vertical surface.

This pump is designed for installation indoors only. Do not position this pump where it is likely to be subject to water ingress.

The discharge pipe can be 6mm or 10mm ID. It should be secured to the outlet barb using the cable ties provided. It is important to ensure that there are no kinks or restrictions in the discharge pipe.

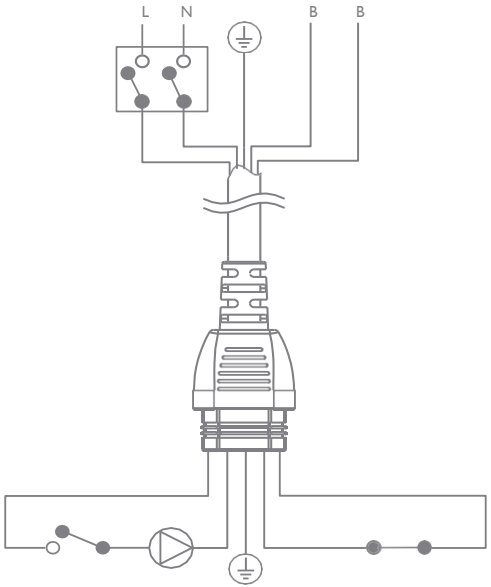
Three openings are provided for inlet of condensate water at the front of the pump, two on the right hand side and one on the left. The inlet pipe/s must be fitted so that it/they push/es fully into one of the openings and cannot come loose.


Max 100m + / 328ft +
Max 5m/16.5ft

The pump must be earthed. It is suitable for connection to a 230v 50hz AC power supply using the Supply Cable provided. Connection to the electrical supply must be via a double pole isolation switch having a separation of at least 3mm in each pole (Brown = Live, Blue = Neutral, Green/Yellow = Earth).

The two black wires are for connection of the internal hi-Level safety switch. The switch has a maximum rating of 3 amps and can be used to stop the air conditioning system in the unlikely event of pump failure and should always be utilised.

This pump must be installed and commissioned by a competent person in accordance with these instructions. Following installation and commissioning, the operation of this pump should be explained to the user and these instructions left with them for future reference.

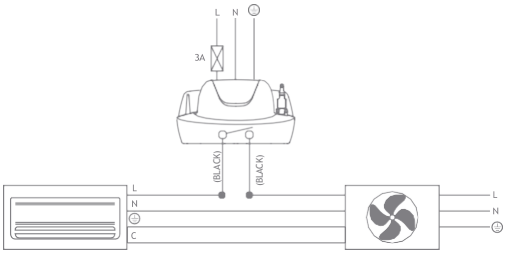


The following diagrams indicate three methods in which the hi level safety switch can be used to interrupt the live connection between the fan coil and the condenser.

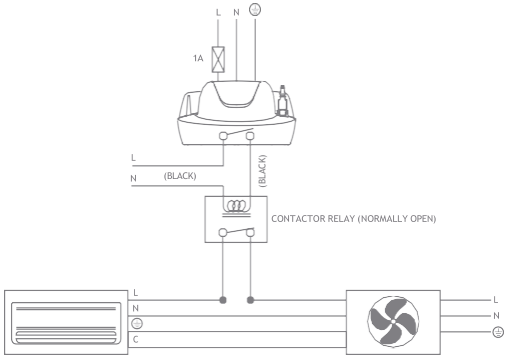
Electrical installation must be carried out by a competent person and be in accordance with local wiring regulations. Ensure the electrical supply is switched off before making any connections to the pump.

⚠Following installation of the pump the reservoir should be filled with water until the motor runs. Pipes and connections should be checked for leaks and discharge of water checked; The operation of the safety switch should also be checked.

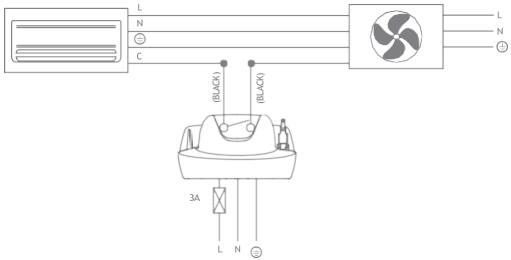
A



B



C



A. Live connection is < 3 amps

B. Via a suitable contactor relay (normally open) where the live connection is above 3 amps

C. Where interruption of the live or neutral connections lead to comms problems

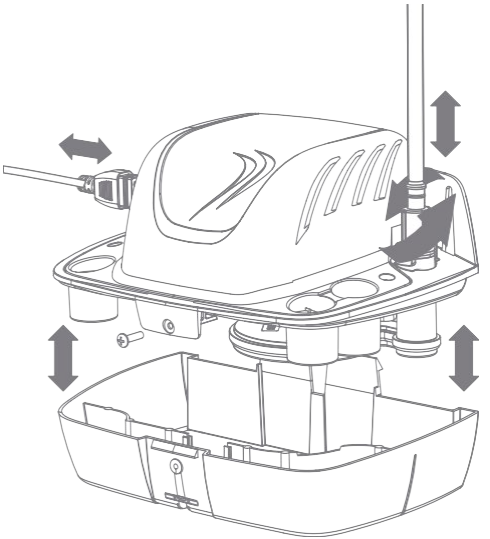
The pump reservoir can be removed with ease for cleaning purposes by undoing the screw located at the front of the pump, depressing the front and allowing the reservoir to be moved downwards (care should be taken as there may be water in the reservoir). Note: The pump does not need to be removed from its fixings to clean the reservoir. The quick release outlet barb can be removed very easily by twisting and pulling out.

The pump should be flushed through with anti-bacterial wash every 6 months to avoid sludge build up in the pump reservoir. Note: Contractors should satisfy themselves that any chemicals used are suitable and will not damage the pump.

If the supply cord is damaged the pump must be switched off until the supply cord is replaced by a suitably qualified person to avoid a hazard.

Note: Servicing and maintenance should be carried out by a competent person.

For further help please contact Airflow Developments.



Fault conditions:

In the unlikely event of a pump failure check the following:
Power Supply – Ensure power is supplied to pump.
Hi Level Safety Switch – Ensure hi level safety switch has not operated. If it has, check pump performance is suited to incoming flow rate.
Inlet Pipe – Check pipe is not blocked with debris or kinked.
Outlet Pipe – Check pipe and outlet barb are not blocked with debris or kinked.
Reservoir – Check reservoir is not blocked with debris.
Note: Fault conditions should be checked by a competent person.
If these checks do not resolve the problem please contact Airflow Developments for further assistance.

Call: 01494 525252 **Visit: airflow.com**

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