

Condensate Pump

OPERATION MANUAL



V1.0

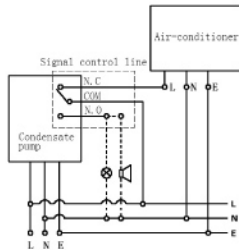


Faults and troubleshooting

Problem	Cause	Action
Pump runs all the time	The float is positioned with the magnet uppermost	Check the float again
	The reservoir lid(sensor)located inside the reservoir,around the sensor column	Check the sensor cable connection
	There is sludge inside the reservoir, preventing float from resting on the bottom	This may occur if pump has been in operation for some time without cleaning.Clean using an anti-bacterial wash
Pump stops and starts and makes a loud noise	The water is siphoning back through the pump	Preventing the air in the pie between the reservoir and the pump after installation and during operation
Pump runs but does not pump any water	There are some air-leaks in the pipe running to the pump	Check the reservoir and section tube are free of sludge and debris
Pump isn't operating at all	The power doesn't reach the pump	Check the power supply
	The wire is wrong	Check the power cable
	The voltage isn't correct	Check the voltage
	The pump is very hot	A thermal cut-out may have been activated to protect pump. This will automatically reset once pump has cooled down.

Note:

- ⑨. 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.



Power:

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

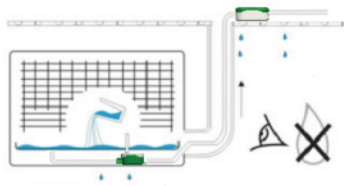
Alarm/volt free:

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

Warning

Make sure the correct power cable to the power supply while 6-pin socket lead assembly.

- ⑩ Test pump operation by pouring water into evaporator tray. Check for leaks.



Warranty

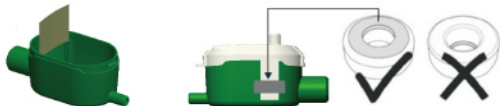
This warranty covers all arts with material or manufacturing faults. The buyer's only remedy is the replacement or repair of the defective arts. In no case can labour costs and any onsequential damage be cited as a basis for a omlaint. Any returned units must be complete and ust be accompanied by a written list of the defects scertained. We are unable to accept any liability in case of nonconforming installation or noncompliance with the specifications or maintenance recommendations.

Maintance

- This pump like all mechanical equipment requires maintenance
- Every six months, the reservoir should be moved, taking care to clean the filter, float and reservoir thoroughly prior to reassembly. We recommend this is done in spring and in autumn, using an anti-bacterial wash.
- Take great care to replace the float with the magnet facing upward.

6. Installation

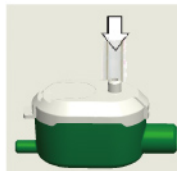
① Ensure float is positioned in reservoir with magnet uppermost, the filter is in place and the lid is clipped firmly onto reservoir.



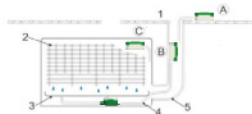
② Secure reservoir horizontally using velcro strips and for the inline reservoir use the inlet hose to connect firmly to drainage pipe.



③ Fit breather tube to reservoir lid.



④ Install pump drive unit above the ceiling where possible



- ① False ceiling
- ② Evaporator coil
- ③ Condensate drain tray
- ④ Vinyl tube
- ⑤ Conduit

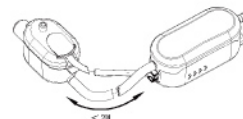
⑤ Anti-vibration assembly



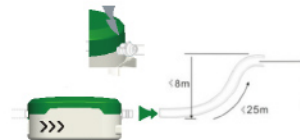
⑥ Note direction of water flow



⑦ Push the 9mm o/dx6i/d tube onto the reservoir and the pump. Secure with cable-ties. Ensure length is under 2meters



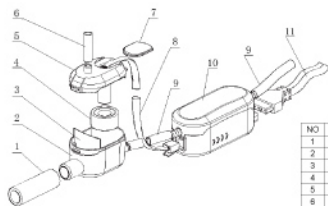
⑧ Connect your 9mm o/d x 6mm i/d vinyl discharge tube to the outlet barb on the pump and secure with a cable tie. Channel discharge tube to an appropriate drain. avoiding restrictions.



Pearl spring series



1. Pump components



NO	Description	NO	Description
1	Silicone tube	7	Insert board
2	Reservoir base	8	Sensor cable
3	Filter	9	Connecting tube
4	Float	10	Pump assembly
5	Reservoir cover	11	8-Pin socket lead assembly
6	Breather tube		

2. Dimensions



*PC-12B

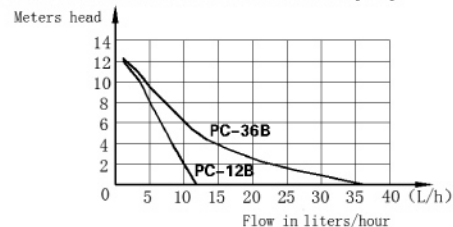


*PC-36B

3. Technical specification

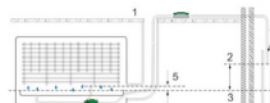
Model	PC-12B	PC-36B
Voltage	230V-50/60Hz or 115V-60Hz	230V-50/60Hz or 115V-60Hz
Suction lift	Max.2m(6.5ft)	Max.2m(6.5ft)
Discharge head	Max.12m(40ft)	Max.12m(40ft)
Thermal protection	>75°C	>75°C
Flow rate	Max.12L/h(3.2GPH)	Max.36L/h(9.6GPH)
Tank capacity	35cc	35cc
Mini splits up to	10KW(30,000btu/hr)	30KW(90,000btu/hr)
Sound level	≤25db(A)	≤32db(A)
Ambient temperature	0°C-50°C	0°C-50°C

4. Maximum recommended head(m)



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)

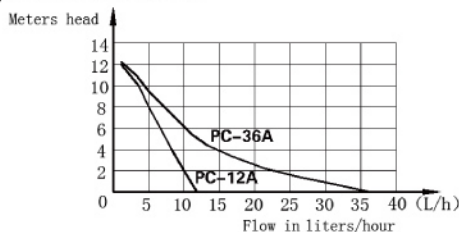


- ① False ceiling
- ② End of discharge tube
- ③ Water level in drain tray
- ④ Air break
- ⑤ Top of breather tube

3. Technical specification

Model	PC-12A	PC-36A
Voltage	230V-50/60Hz or 115V-60Hz	230V-50/60Hz or 115V-60Hz
Suction lift	Max.2m(6.5ft)	Max.2m(6.5ft)
Discharge head	Max.12m(40ft)	Max.12m(40ft)
Thermal protection	>75°C	>75°C
Flow rate	Max.12L/h(3.2GPH)	Max.36L/h(9.6GPH)
Tank capacity	400cc	400cc
Mini splits up to	10KW(30,000btu/hr)	30KW(90,000btu/hr)
Sound level	≤25db(A)	≤32db(A)
Ambient temperature	0°C-50°C	0°C-50°C

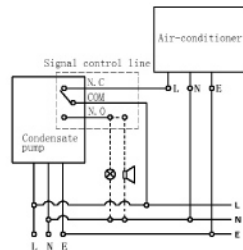
4. Performance graphs



5. Installation

- ① Make sure the power is cut off
- ② Check the voltage(220V or 110V),choose the same power supply with the products
- ③ The direction of the suction pipe is changeable, Choose a suitable location to fix the mounted plate.The screw is available.
- ④ Insert the suction pipe,connect the discharge pipe. Do not bend the pipe.

- ⑤ Connect the power supply.If only one cable,connect it with the power supply or with the socket of the air conditioning.If there are two cables , connect the other 3-pin according to the following wiring diagram :



Power:

(L) Live: Brown

(N) Neutral: Blue

(E) Earth: Green&Yellow

Alarm/volt free:

(N.C.) Normally closed: Violet

(COM) Common: Green

(N.O.) Normally open:Red

Warning

Make sure the correct power cable to the power supply while there are two cables.

- ⑥ The LED indicating lamp won't shine while the pump working.If the LED turn red,it means the pump is troubled,please contact the qualified person to maintain it.

Thanks for choosing Wipcool condensate pump

CLEAR SPRING SERIES & PEARL SPRING SERIES

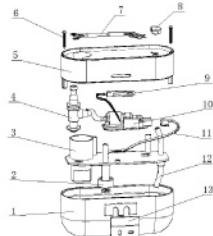
Safety

- Before carrying out any operation on the pump, make sure the installation is disconnected from the power supply.
- The pump has been evaluated for use with water only.
- Risk of electronic shock. This pump has not been investigated for use in swimming pool or marine areas.
- If the cord is damaged, it must be replaced with a special cord or assembly available from the manufacturer or its service agent.
- Do not run this pump dry.
- Always ensure the metal magnet in the float is facing upward. Always ensure the reservoir is sitting flat and horizontal.
- The pump is ideal for most working and living environments. It is not recommended where the environments is oily or particularly dusty.
- Acceptable for indoor use only.
- Non-submersible pump.

Clear spring series

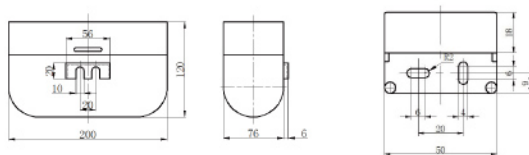


1. Pump components:



NO	Description	NO	Description
1	Reservoir	8	Cable pressing plate
2	Float	9	Indicating lamp module
3	Middle panel	10	Pump assembly
4	Discharge fitting	11	Simmer cable
5	Pump cover	12	Suction pipe
6	Self-tapping screw	13	Mounted plate
7	Power supply module	14	

2. Dimensions



*PC-12A / PC-36A

Mounted plate

Thanks for purchasing our product!

Please read the operation manual carefully before you use the product. It will give you great help in installing and applying the product. If you sell or resell it with your product series, please provide this operation manual together with the product so that the end user may learn application method and cautions.

How to removal the condensates from the air conditioning?

Condensates (drops of water caused by warm, humid air passing over a cold surface) are formed in air conditioning, refrigeration and condensing boiler units. There are 2 ways of removing them;

1. Evacuate the condensates by gravity, which means dealing with technical and aesthetic problems (distant drainage outlet, not enough fall, damage to walls and unsightly pipe work).
2. Install a condensate removal pump (smaller dimensions, the appearance of the installation is preserved for pearl spring series, simple and quick to install for clear spring series, safer as equipped with alarm and non return valve).

What is a condensate removal pump?

It is a system which consists of a pump unit and a detection unit allowing condensates to be evacuated to a water drainage outlet where there is no gravity fall.

This technology has **3 advantages:**

1. It protects the appearance of the customer's installation (nonsightly pipework).
2. Easy, simple and safe to install.
3. Reduction of the risk of bacterial contamination by waste water (no stagnation or back-flow of water due to non return valves).

Application

The condensate pump PC series are suitable for integration in air conditioners - mini split, ceiling and wall mounted units.