P.I. Gelidense, Naves 19-21
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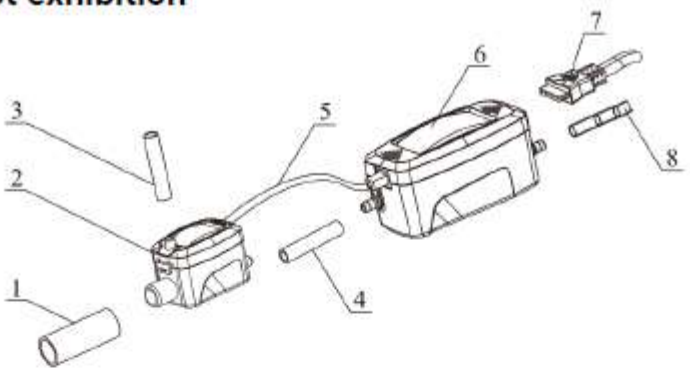
MINI CONDENSATE PUMP FOR AIR CONDITIONING

The **Mini Condensate Pump For Air Conditioning (Split)** is a compact pump designed to efficiently remove the water produced by the condensation of a SPLIT unit. Its main advantage lies in its ability to be installed inside a cable duct, allowing for a seamless and concealed integration in any space.

Thanks to its reduced dimensions and innovative design, this model ensures exceptionally reliable operation and an extremely quiet performance, with a noise level below 19 dB.

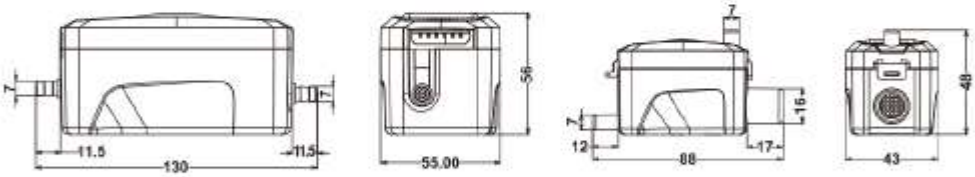
This mini pump features a reservoir with a 45 ml capacity and utilizes next-generation level electrodes, replacing traditional float switches. Additionally, to ensure safety and prevent overflows, it includes an audible alarm that activates when the reservoir reaches its maximum capacity.

1. Product exhibition



Item	Parts name	Item	Parts name	Item	Parts name
1	Inlet pipe	4	connecting pipe	7	Six-core line
2	Tank	5	Signal line	8	Outlet pipe
3	Air pipe	6	Pump motor		

2. Dimensions



3. Parameters

Model	**GH**-PU02E
Power supply	AC 110~220V
Discharge head	Max.10m(33ft)
Flow rate	Max.24L/h(6.2GPH)
Tank capacity	45ml
Noise level	< 19dB(A)
Max air conditioner power	8KW(30,000btu/hr)
Max water temperature	35°C

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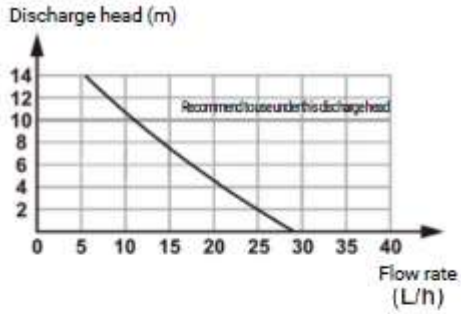
4. Flow rate

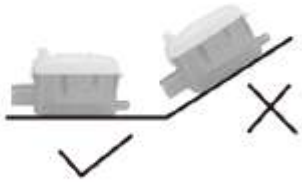


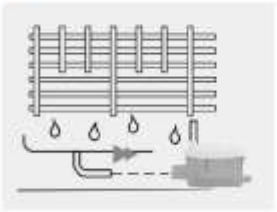
Model \ Discharge head	Performance(L/h, Head)					
	0m	2m	4m	6m	8m	10m
GH-PU02E	28	24	20	18	16	12

5. Installation steps

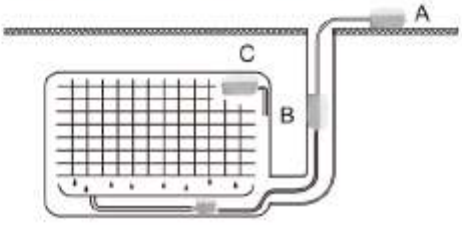
①Connect the air pipe to the cylinder on the tank cover, as is shown. The silicon case can be took on to prevent the condensate.

②Make sure that the tank is horizontal, and the connection between the outlet pipe and water inlet is firmly. It's better to use the bandage to wrap it. (Equipped the inlet pipes with different shapes, please choose the proper one). As is shown.





③Settle the pump motor at the proper place, as is shown.



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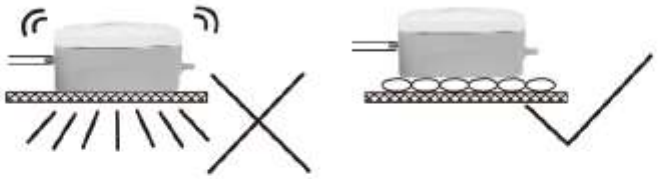
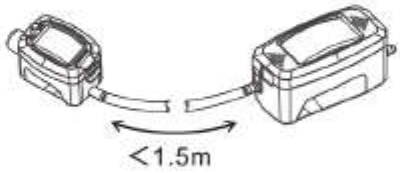
④ Using vibration-proof material to prevent the shake from making any noise.



⑤ Pay attention to the flow direction, it should be same as the arrow on the cover.

⑥ Connect the tank to the pump with the equipped pipe (the length of the pipe is 1.5m, so the distance between the tank and the motor can't be over 1.5m), and use the bandage to wrap it.



⑦ Connect the plastic pipe (OD 9mm*ID 6mm) to the outlet of the motor, and use the bandage to wrap it (please choose the proper length of the pipe as the matter of fact).

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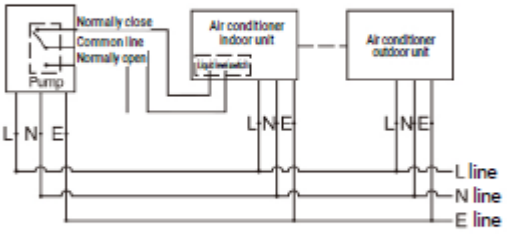
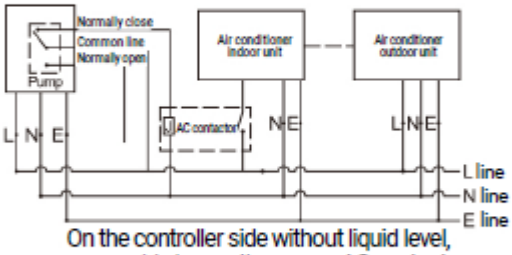
⑧ Connect the power line of the pump which is six-core, the different functions of the lines with different colors as below:
Power line: L line: red N line: green E line: yellow and green
Signal line: Normally close: brown Normally open: yellow Common line: blue

To prevent the overflows from the failure and resulting property loss, we advice to connect the signal line, as is shown.



Controller side with liquid level



On the controller side without liquid level, you could choose the proper AC contactor according to the air conditioner power control the power on or off.

Commonly the brown is the normally close line.
On the condition of overflow alarm, the yellow line closes.
The normally close and open signal line is optional to connect.

⑨Correctly connected, power on the condensate pump and turn on the air conditioner. Please check if the pump works well, if not, please contact the maintainer to fix it.

Notice: 1. Please pay attention to the power line and signal line, do not connect wrong.
2. Without connecting the signal line, the pump will still work normally. In order to prevent the overflow failure, we advice to connect the signal line.

6. Overflow alarm and stop function

(1) When the water level in the tank is reaching the max capacity even it starts overflowing, the pump will alarm. If the signal line is connected, the air conditioner will be also cut off.
(2) If the signal line is not connected, once you heard the alarm, please turn off the air conditioner and the pump right now.

7. ATTENTION!

(1) Best if used in two years, after then we kindly suggest to replace a new one to prevent water leakage and property loss.
(2) If the pumps are installed with the air conditioner in the ceiling, please pay attention to the condition of power failure. Without power supply, it may result in water leakage after using cool and dry mode.

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8. Troubleshoot

Trouble	Reason	Solution
The pump is always working, can't stop	The tank is not horizontal	Adjust the place and make the tank being horizontal
	Any dirt inside of the tank	If the tank is not cleaned up in time, please do it right now
The pump starts to work and makes loud voice	The water in the pump siphons	To prevent the air goes into the tank and pump when installing and operating. Make sure the breather pipe connected well.
No water outflows when the pump is working	The pipe has an air leakage	Check if there is sludge or dirt
The pump can't start working	The pump can't start	Check the power is well connected
	Wrong connection	Check the corresponding lines are connected correctly
	Wrong power supply	Check if the line voltage is correct
The pump gives an alarm	The water level in the pump is approaching the max capacity or has overflowed	Check if the outlet pipe buckled or has dirt inside
		Check if the air conditioner power is over the pump range
The pump doesn't work, but there is water in it	Each pump has to pass the test before they go out	Parts of the products are recent manufactured, it may have water left. It is normal, please use it without any worry

9. Attention

1. Place the tank horizontally, do not slant it.
2. The pump needs a separate power supply, if it needs to connect to the air conditioner, refer to the wiring diagram.
3. Avoid the inlet water more than the outlet, or it may result in overflowing.
4. Do not settle the pump outside or in places where it's easy to have water flooding, to prevent danger.
5. Please hire a professional technician to install the pump.

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