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IDEAL PRODUCTS FOR HVAC

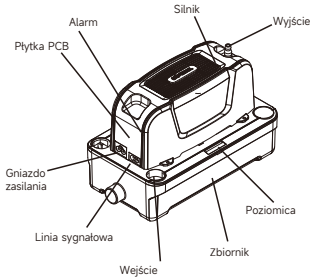


**Tank Pump**  
**P180/P380/P580**  
-Operation Manual-

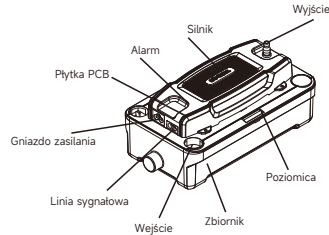


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## 1. Product Indication Chart

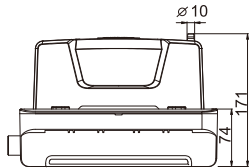
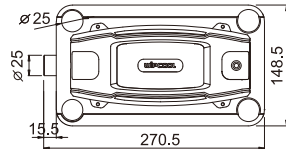


P180/580

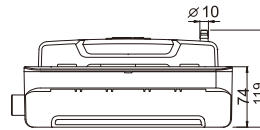


P380

## 2. Dimensions



P180/P580

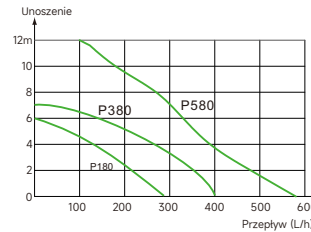


P380

## 3. Technic Data

Model	P180	P380	P580
Voltage	230V~/50-60Hz 110V~/60Hz	100-230V~/50-60Hz	230V~/50-60Hz or 100-120V~/50-60Hz
Discharge head(max.)	5m(@50Hz)	6m(@60Hz)	6.8m
Flow rate(max.)	280L/h	350L/h	380L/h
Tank capacity	1.8L		
Power consumption	60W	20W	85W
Sound level at 1m	48dB(A)	28dB(A)	60dB(A)
Ambient temp.	0°C-50°C		








## 4. Flow Rate Chart



Model	Wydajność (L/h) przy wysokości podnoszenia												
	0m	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m
P380	580	540	510	270	240	130	30	/	/	/	/	/	/
P580	580	480	450	390	360	340	310	260	220	170	140	120	100

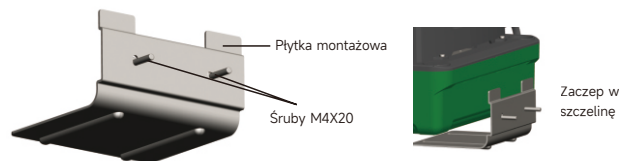
P180	Wydajność (L/h) przy wysokości podnoszenia							
	0m	1m	2m	3m	4m	5m	6m	7m
	110V/60Hz	350	320	300	260	220	180	120
220V/50Hz	280	260	240	170	120	50	0	0

## 5. Safety Instructions

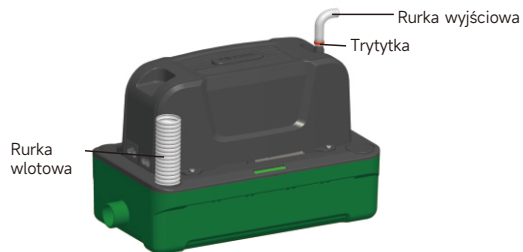
1.  Place the tank horizontal when installing, do not tilt the pump. Check whether the level drop is centered; if there is tilt, adjust the water level before using it.
2.  Do not place electrical appliances or valuables under the condensate pump to avoid loss caused by power failure or water leakage.
3.  Non - professional personnel should not install it to avoid danger.
4.  The condensate pump is not waterproof. Do not place it in the open air, outdoors or in a place prone to flooding.
5.  The condensate pump power supply needs to be independent to maintain permanent power supply. For details of connecting with air conditioning system, please refer to the wiring diagram.
6.  It is prohibited that the water inflow is bigger than our stated flow rate, which will easily cause the motor to work continuously and fail. Instant big water inflow will also cause the condensate pump fail to discharge water in time, leading to water leakage.
7.  The condensate pump has a built-in buzzer. When the buzzer sounds all the time, please turn off the air conditioner and ask a professional to repair it.

## 6. Installation Procedure

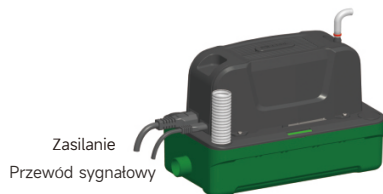
- 6.1 Cut off the power;
- 6.2 Install the hanging plate (in the accessory bag) horizontally at a suitable position, and then hang up the condensate pump; (When fix on the wall)



- 6.3 Insert the pipe of refrigeration system into the water inlet of pump , and connect the pipe with 8x12 plastic pipe and fix it with tie ( tie is in the accessory bag )



#### 6.4 Connect power supply and signal line;

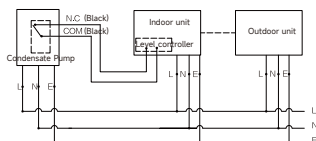


6.5 Check the correct power supply. Connect the three core wire which marked "POWER" with the air conditioner's connection or socket connection, and pay attention to the following power cord color.

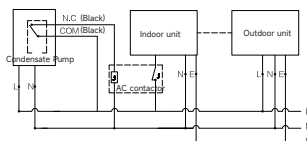
6.6 If the signal control wire (two core) connects with the air conditioner lines directly, when the condensate pump is not working properly, the pump circuit can trigger a signal to shut down or cut off the air conditioner running directly.

#### **Warning**

Please note the distinction between the power line and signal line, wrong wiring will result in damage to the drain pump and ensure consistent product identification voltage.



If the air conditioner does not have level controller it can be connected to other alarm devices or refer to figure 2.



If there is no level switch, it can also use an appropriate AC contactor to control the air conditioning power.

Power line: (L)Live:Brown; (N)Neutral:Blue; (E)Earth:Green & Yellow.  
Signal line:(N.C.)Black; (COM):Black

6.7 After the system is properly connected, ensure that the pump is powered on, run the air conditioner and observe whether the pump is working normally. If the pump does not work properly, please contact a professional for repair.

6.8 The pump is internally provided with an alarm buzzer, when fails to drain out water and water rises to a certain height, the alarm buzzer will emit a "dripping ... dripping" sound.

6.9 When the water outlet nozzle is blocked, it can be manually disassembled and assembled after the matter is cleaned. The detailed steps are shown in the following figure.



### 7. Trouble shooting

Problem	Cause	Solution
Pump run all the time	1.Installation is not horizontal	Adjust the tank make it level
	2.There is sludge inside tank	Clean the inside of tank and float
Pump makes loud noise	1.The water is siphoning back in the pump	Check whether the outlet pipe is lower than pump thus result in siphoning, raise the condensate pump position
Pump can't start working	1.Installation is not horizontal	Adjust the tank, check water level
	2.The power can't reach pump	Check power supply
	3.The voltage isn't correct	Check the voltage

Every six months or more often the reservoir should be removed, taking care to clean the filter, float (Probe)and reservoir thoroughly prior to reassembly. We recommend this is done in the Spring and the Autumn, using a chemically compatible anti-bacterial wash.