

AL007 Water flow switch

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Cause analysis

- The filter is blocked, resulting in a small flow;
- There is air in the pipe, which causes the water flow to be unsmooth;
- A valve in the water system is closed or not fully opened;
- The water pump is not big enough, resulting in a small flow;
- The water flow switch is broken;
- The water pump is broken.

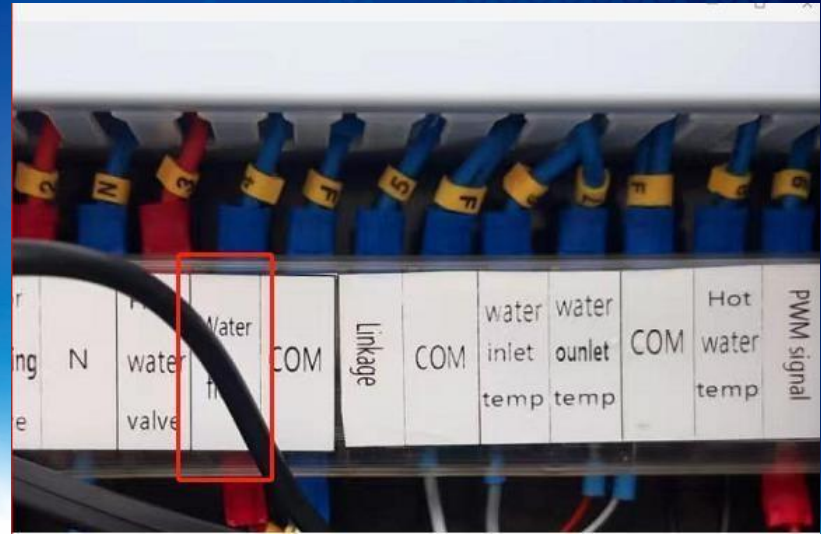
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Detection method

- Air is discharged from the exhaust valve, and the water flow is small by visual inspection;
- Check if any valve is not fully opened;
- The output of the water pump on the mainboard has electricity, but the water pump does not rotate, then the water pump is broken;



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Detection method

- If the above are excluded, pls short-circuit the water flow switch (connect the Water flow and COM with a wire), and force the heat pump to start. When the outlet water temperature is more than 10 degrees above the water tank temperature, it means that the flow is small and needs to be emptied or replaced with a larger water pump. If the temperature difference is within 10 degrees and there is no fault when starting up, the water flow switch is broken.



Outlet water temp-water tank temp > 10°C **FLOW SMALL**
Outlet water temp-water tank temp < 10°C **FLOW SWITCH BROKEN**

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Solution

- If the filter is blocked, pls remove the cap of the filter as shown in Figure 1, and clean the filter as shown in Figure 2



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Solution

- If there is air in the pipeline, the air in the pipeline must be exhausted from the exhaust valve or union



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Solution

- Check all valves and open them all;
- If it is determined that there is no air in the pipeline, and the temperature difference exceeds 10 degrees after the water flow switch is short-circuited, then pls replace with another water pump with a larger head and flow rate;
- After the water flow switch is short-circuited, there is no fault when it is turned on. Then the water flow switch is broken and pls replace it;
- If the water pump is broken, pls replace the water pump.