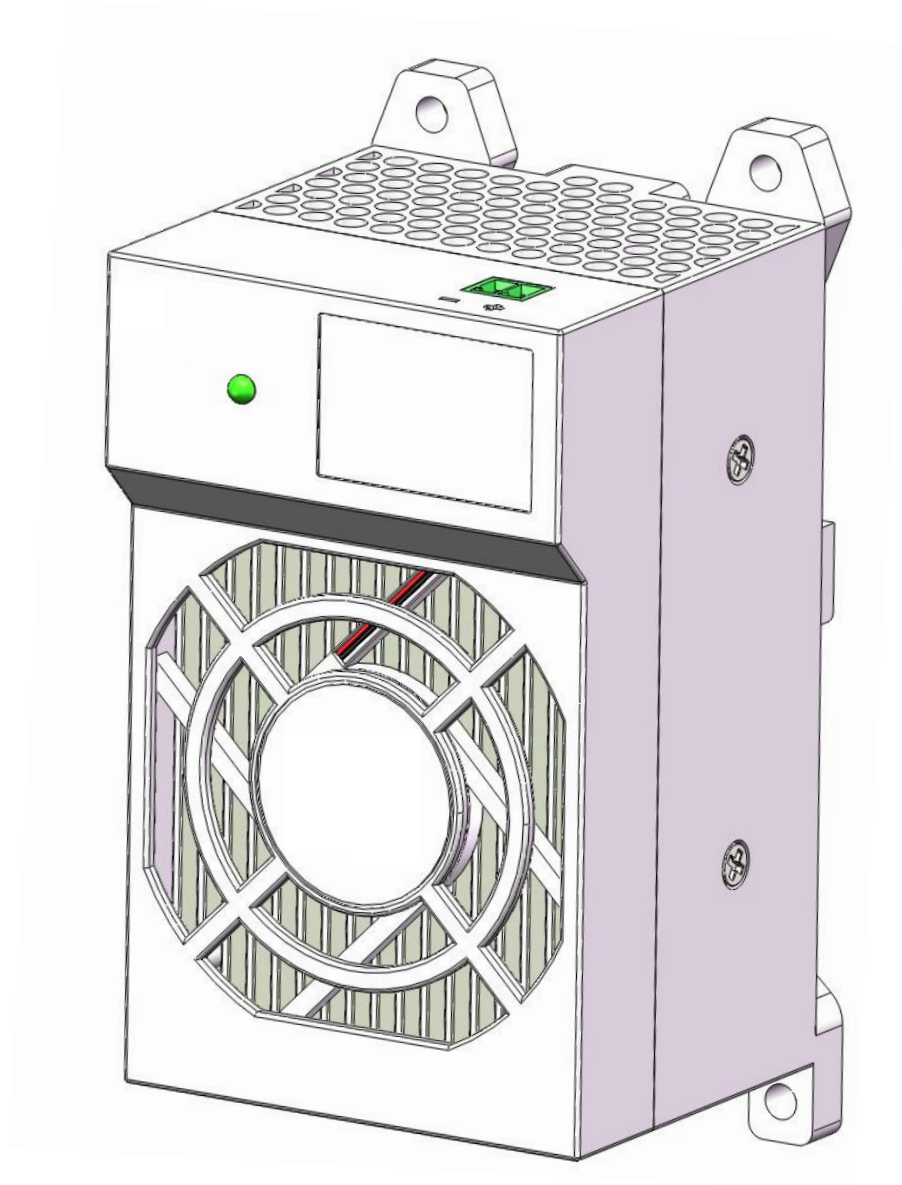




## Mini-Dehumidifier Instruction Manual

PN-D2412D



*REV 01*

## **Product Introduction**

PN-D2412D Mini Intelligent Dehumidifying Device adopts the semi-conducting cooling dehumidification method. The fans of dehumidification device absorb the moist air into dehumidification air tube from confined space. When the moist air contacts the cooling parts, the moisture in the air will turn into condensation water. Condensation water under the effect of gravity drip into the water tank and drain off from aqueduct. The recycling of the dehumidification process drains the water of cabinet in the form of condensation water, so as to dehumidify and prevent condensation.

The dehumidifying way of semiconductor refrigeration can reduce the amount of water in the air. It can also reduce both air humidity and relative humidity in the confined space. This model overcomes the disadvantages that traditional heating dehumidification cannot truly reduce air humidity and cause the temperature in cabinet rise.

## **Product Features**

1. Small size, light weight and broad application;
2. Convenient installation with DIN35 rail/bolt;
3. Low power consumption, lager volume dehumidification;
4. Real time sampling of humidity, rapid response to changes in ambient humidity;
5. Discharging and condensing in the dehumidification tube, heating and dehumidifying the effluent gas, dehumidifying anti-condensation comprehensively;

6. Drainage system condenses condensate water out of the cabinet timely.
7. Start and stop dehumidification values are adjustable;
8. Automatic defrosting at low temperature;
9. Automatic stopping at high temperature and double temperature switch protection.

### **Technical Parameters**

| Project                       | Technical parameters              |
|-------------------------------|-----------------------------------|
| Working power supply          | <u>DC 12V</u>                     |
| Electric power                | 24W                               |
| Humidity detection range      | 1%RH ~ 99%RH                      |
| Humidity measurement accuracy | ±3%RH                             |
| Dehumidification start value  | 55%RH ( Adjustable )              |
| Dehumidification stop value   | 35%RH ( Adjustable )              |
| Dehumidifying capacity        | 250ml/24h ( 35°C RH=85% )         |
| Storage temperature           | -30°C ~ 70°C                      |
| Operating temperature         | -10°C ~ 55°C                      |
| Outline dimension             | 104mm*64mm*66mm                   |
| Net weight                    | 320g                              |
| Aqueduct specification        | Heat-resistant silicone pipe L=1m |

### **User Guide**

1. Install the dehumidification device vertically in the cabinet;
2. Turn on electricity → Automatic real-time detection of humidity in the cabinet

- Start dehumidification when the humidity is greater than the start value
  - Stop dehumidification when the humidity is less than the dehumidification stop value;
3. Repeat the above process, and keep the humidity in the cabinet within the setting range.

**Installation Instructions**

1. DIN35 rail installation or using M4 screw fixing installation;
2. The top of the dehumidifier (air inlet) and the front (outlet) need to keep more than 8cm from other devices, so as to ensure that the air inlet and outlet are smooth;
3. Insert the aqueduct into the joint at the bottom of the dehumidifier, and the other side of the aqueduct to the outside of the cabinet;
4. Turn on the power.

**Packing List**

| Packing List |                             |      |                                     |
|--------------|-----------------------------|------|-------------------------------------|
| 1            | Mini-Dehumidifier PN-D2412D | 1Set |                                     |
| 2            | Product Manual              | 1PC  | Or Electronic version of the manual |
| 3            | Silicone Rubber aqueduct    | 1M   |                                     |
| 4            | Nylon Harness               | 1PC  |                                     |