

DH SERIES PELTIER COOLER DEHUMIDIFIER

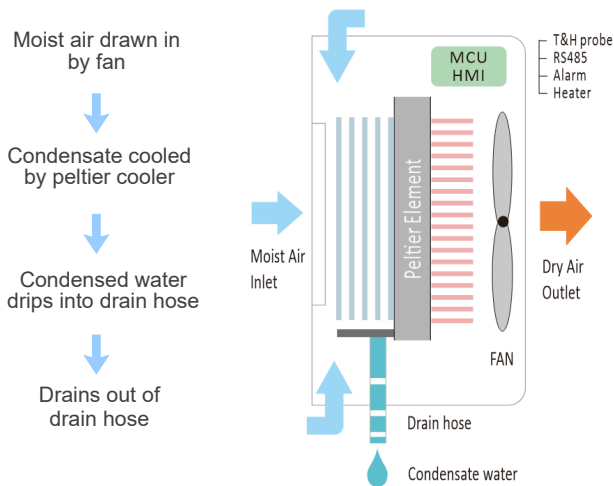


Introduction

The DH series peltier condenser adopts semiconductor refrigeration and dehumidification method, drawn humid air through the fan, condenses into water through the semiconductor refrigeration mechanism, and then discharges it from the cabinet through the drain hose to achieve a good dehumidification effect.

This reduces relative and absolute humidity with little increase in temperature, radically preventing accidents and device aging. Ultra-small installation size, high efficiency and energy saving. Equipped with a data acquisition module for remote monitoring, a reliable replacement for thermostats and heater/fan combinations.

Working Principle



Main Features

- Thermoelectric Peltier cooling principle;
- Compact and lightweight, easy installation;
- Low power and high efficiency;
- Adjustable humidity and temperature control;
- Optional 50–500 W external heater connection;
- Auto/manual mode, adjustable thresholds;
- 24h real-time temp/humidity monitoring;
- RS485/ Modbus RTU for remote control;
- Moisture-proof components, reliable in humidity;

Application

- Power substation equipment rooms;
- Relay protection & control panels;
- Switchgear & transformer chambers;
- Data centers & telecom center;
- Distribution & control cabinets;
- Relay testing & maintenance rooms;
- Power control & monitoring centers;

Ordering Information

Model	Max power	Air volume flow	Sensor	Material	Optional functions
DH2-60	60W	70m ³ /h	External	ABS	-RS485 Communication -Heater (50-500W) -Alarm output (Sensor disconnection alarm, Power loss alarm, Temp. and humidity over limit alarm)
DH3-60	60W	70m ³ /h	Built-in	ABS	
DH4-60	60W	70m ³ /h	External	Sheet metal With anti-rust spray	
DH5-80	80W	100m ³ /h	External	Aluminum alloy	
DH6-200	200W	140m ³ /h	External	Sheet metal With anti-rust spray	

Notes:

1. Only Model DH4-60 and DH6-200 can choose all three additional optional functions, other models can only choose two of three.
2. If the device has a built-in sensor, you cannot select sensor disconnection alarm.
3. Alarm output: default passive dry node, normally closed under normal operation and opens when a fault occurs.

Technical Characteristics

Model	DH2-60	DH3-60	DH4-60	DH5-80	DH6-200
Working power					
Power supply	85V~265VAC/DC 50Hz				
Peltier rated power ⁽¹⁾	60W	60W	60W	80W	200W
Air volume flow	70m ³ /h	70m ³ /h	70m ³ /h	100m ³ /h	140m ³ /h
Dehumidification capacity	250ml/Day	250ml/Day	300ml/Day	350ml/Day	600ml/Day
	@35°C,90%RH				
Measurement and ability					
Humidity monitor range	20%RH~98%RH				
Sensor accuracy	±5%RH				
Dehumidify start threshold	45%RH~98%RH, Default 65%RH				
Environment temperature	5~60°C				
Temperature monitor range	-40~80°C				
Sensor accuracy	±1.0°C				
Heater start threshold	1~55°C, Default 5°C				
Heater power	50~500W optional				
Other					
Dimension	102*171*73mm	102*140*62mm	132*245*67mm	138*150*70mm	242*247*67mm
Screen	2 digital LED	2 digital LED	2*3 digital LED	1 digital LED	2*3 digital LED
Standards	IEC60255-22-1				
Communication	RS485, modbus-RTU				

Notes:

1. The choice of the rated power is related to the cabinet's inner volume and airtightness, and the general reference value is:

0.5cubic meter cabinet choose 15w,1.0cubic meter cabinet choose 30w,
1.5cubic meter cabinet choose 40w,2.0cubic meter cabinet choose 60w,
Cabinet volume is calculated according to the inner diameter, Length*Width*Height.

2. Sensor accuracy of 5% is tested with the inside probe, product optional external cable type sensor. Please contact the sales team before ordering.

3. Device provides passive NO contact for external heater connection, capacity is 5A@250VAC. Users can free to order heaters or purchase with the DH series.