

DH-C10/16 COMPRESSOR DEHUMIDIFIER

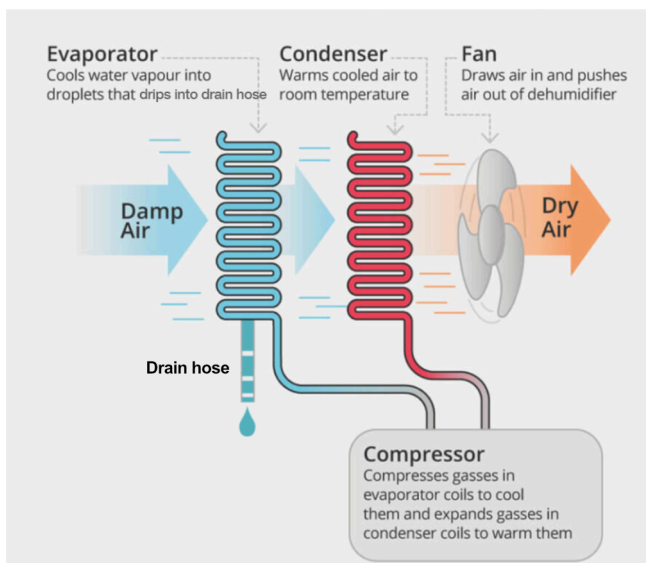


Introduction

The DH-C10/16 intelligent compressor dehumidifier adopts a compressor-based refrigeration dehumidification system to cool incoming humid air, causing moisture to condense into water. The condensed water is then drained, while the dried air is released back into the environment.

This process effectively and rapidly reduces the humidity level within enclosed areas, preventing condensation. The device provides reliable protection for electrical control cabinets and electronic equipment, helping to prevent humidity-related problems such as short circuits, insulation deterioration, corrosion, and component aging.

Working Principle



Main Features

- Built-in temperature & humidity sensor;
- Compressor refrigeration dehumidification;
- LCD display for real-time monitoring;
- Auto defrost control function;
- RS485/ Modbus-RTU communication;
- One channel fault alarm relay output;
- One channel heater control relay output;

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;

Technical Characteristics

Model	DH-C10	DH-C16
Working power		
Power supply	85-265Vac/dc, ±10%, 50Hz	
Rated input power	250W	300W
Dehumidification capacity	10L/day @30°C, 92%RH	16L/day @30°C, 80%RH
Max. dehumidification space	40 cubic meters	
Refrigerant	R134a,130g	
Measurement and ability		
Ambient humidity measure range	20.0~99.0%RH, Display resolution 0.1	
Ambient humidity control range	20.0~95.0%RH	
Ambient humidity accuracy	±5%RH, @25.0°C, 20.0~90.0%RH, standard atmospheric pressure	±3%RH
Ambient temp. measure & control range	-40.0°C ~70.0°C, accuracy ±1.5°C, Display resolution 0.1	-40.0°C ~70.0°C, accuracy ±1°C, Display resolution 0.1
External ambient temp. measure range	-40°C ~70°C, Class 2.0	
Relay output load capacity	1*DO, dry contact, normally open 5A@250Vac/ 30Vdc (For heater)/ 3A@250Vac/ 30Vdc (For fault alarm)	
Heater start threshold	1~55°C, Default 5°C	
Heater power	50~500W optional	
Other		
Dielectric strength	2kV AC RMS 1 minute, between input / output / case / power supply Input, output and power supply to the chassis ≥100MΩ	
Environment	Storage: -10°C ~50°C, ≤90%RH, no condensation Operating: -20°C ~60°C, ≤90%RH, no condensation	
Dimension	Body: 295x381x160mm Base plate: 317x258x11mm	Body: 309x476x239mm Base plate:315 x275x11mm
Net weight	14KG	
Communication	RS485, Modbus-RTU (optional) up to connect 28 devices, with a max communication distance of 1000 meters.	