BLUE JAY

Electrical cabinet dehumidifier

Introduction

High humidity environment is a big impact factor of power transmission and transformation equipment, it will bring discharge, flashover will eventually cause the switch to trip, even burning down equipment caused a large-scale blackout. Switchgear, electrical cabinet, exchange control cabinets, outdoor terminal boxes, Due to the compact internal equipment installation, wet and condensation will be more serious consequences.

At present, most user choose heating, ventilation and other method to prevent condensation. but in some well sealed cabinet and high temperature enviorment, traditional heating and exhaust air method is hard to work well.

Blue Jay company developed using semiconductor technology, in a certain place to lead controlled condensation, make the cabinet interior humidity fall to safe value. It designed ultra-small install size, high efficiency energy-saving, do not need extra heater and fan wiring. And comes with the data acquisition module for remote monitoring, It's an efficient and reliable device to replace the old thermostat and heater / fan combination.

Main Features

- Small size, easy for cabinet inside installation
- Quickly reduce the switchgear internal humidity, exclude water out of air.
- Condensate water will be drained directly to the outside of the cabinet by the aqueduct
- Automatic & manual dehumidification free to change, temperature start value and dehumidification start value adjustable
- Real-time sampling temperature and humidity, support automatically working mode, do not extra sensor and probe
- Build in memory to record settings, can keep original working mode after power recover
- With diagnosis function, user can quickly find failure point to debug
- Shell and internal components are well isolation design, can work in high humidity and strong electromagnetic field
- Optional passive output node
- Optional RS485 port
- Optional external heater

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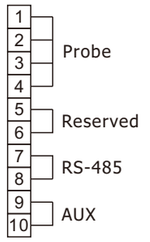
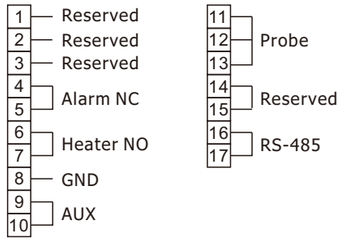
Typical wiring

DH 7000



DH 8000



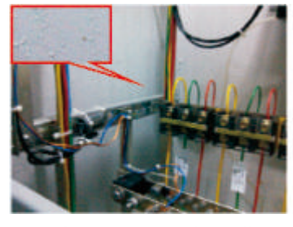
Notes: Wiring according to different product specifications are subject to change. Please reference to the label on product body!

Technical characteristics

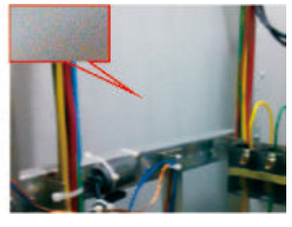
Working power	
Power supply	85V~265VAC/DC 50Hz
Dehumidity power	30W, 40W, 60W
Heater power	50~500W optional
Measurement and	
Probe monitor range	20%RH~98%RH -25C~80C
monitor accuracy	3%RH, +/-0.5C
Dehumidify range	45%RH~98%RH (default 65%RH) 5~45C
Dehumidify Capacity	450mL/24h (60W 35C,80%RH)
Heater start value	1~55C (default 8C)
Comm interface	Mini-USB (TTL RS232)
Other	
DH7000	170*100*72mm (H*W*D) plastic
DH8000	243*130*60mm (H*W*D) 304 stainless steel
Standards	IEC60255-22-1

Installation

Dehumidification effect contrast



Before- Water on the wall



After- No water on the wall