Dehumidifier used for switchgear
LKHP 20 Series

General

LKHP 20 series dehumidifier is designed specifically for the needs of the various cabinet anti-condensation, use thermoelectric semiconductor with high thermoelectric conversion efficiency, compact, high efficiency dehumid-ifier, can effectively prevent equipment insulation level decline due to condensation and attached filth on equip-ment insulating surface, avoid creepage and flashover accidents caused by condensation.

Technical parameter

Power supply	AC/DC 110~220V±10% DC 48V±10%; DC24V±10%
Humidity accuracy	±5%RH
Temperature accuracy	±1℃

Advantage

- Compact, suitable for switchgear, small impact on the structure and layout of the cabinet.
- High humidity gas entering the dehumidifier will dew after contacted with thermoelectric semiconductor, and condensation will be discharge cabinet. If is a high efficiency dehumidifier.
- With strong ability of dehumidification, 30W power consumption to ensure 1m³ switchgear internal humidity is maintained at 60% RH.
- Non-heat sources, can protect switch cabinet equipment. Dehumidification equipment in more traditional switchgear is heater, although certain dehumidifying effect, but the long-term use will due to high temperature that may cause switchgear equipment damage.
- Semiconductor dehumidifier can reduce the moisture content of unit volume, which can effectively prevent the generation of condensation; heater dehumidification mode only reduces the relative humidity and does not reduce the water content in a unit volume of air, so once match temperature conditions, condensation will happen.
- Automatic control based on temperature and humidity, can effectively reduce energy consumption.
- Dehumidification function failure alarm contact output.
- Semi-permanent lossless parts as the main components, long life, long-term use without maintenance.

Model explanation

Model	Dehumidification 30℃ 85%RH	Cubage	Humidity	Temperature	Power Supply	Power	Dimension H×W×D mm
LKHP20-A1	10ml/Hr	1m³	≥55%RH Dehumidify ≤45%RH Stop Dehumidify	Suction air ≥50℃ or≤5℃ Stop Dehumidify	AC/DC 110~220V±10%	≤30W	200×134×70.5
LKHP20-B1					DC 48V±10%		
LKHP20-C1					DC 24V±10%		
LKHP20-A2	22ml/Hr	2m³			AC/DC 110~220V±10%	≤60W	
LKHP20-B2					DC 48V±10%		
LKHP20-C2					DC 24V±10%		

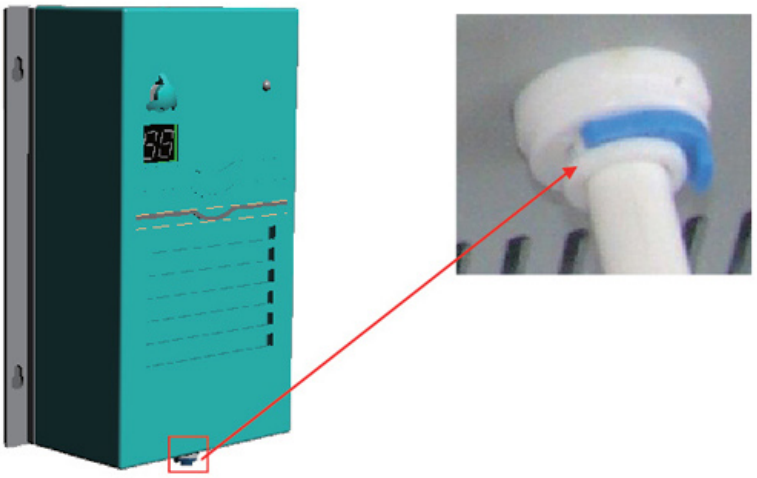
Note: If without control based on humidity and temperature, model is add "-NC",e.g. LKHP20-A1-NC.

Terminal and Interface

Terminal	1、2	Power supply.1：L (+) ； 2：N(-)
	3、4	Alarm output contact, Passive contact,AC250V 5A. NO,close while function of dehumidifier is out of order. Function out of order defined: Temperature sensor or humidity sensor fault; Duration of Dehumidifier work is over 24 hours, RH≥80%RH.
Indicator	Power indicator. On front panel of dehumidifier, lights up if power supply normal, Green.	
Display	Display windows display real-time humidity.	

Installation Instructions

6.1 Drainage tube installation



Drainage tube connector

Install drainage tube: Drainage tube inserted into this connector, and put on the blue clamp to complete the installation
Dismounting drainage tube: Remove the blue clamp, draw out the drainage tube after press the white tube tongue to bottom.
External diameter of drainage of tube is 6.5mm.

Note: Drainage tube should be kept straight, winding, and other end leads to the outer cabinet.

6.2 Please ensure the dehumidifier and the horizontal plane is vertical, not tilted installation.

6.3 10 cm space around the dehumidifier and other devices; guarantee that the blower outlet flow, shall not be covered.

Dimension