DLB 2000

The DLB 2000, well established in practice, ensures fully automated regulation of rel. humidity with maximum stability. The input of the required rel. humidity and setting of the temperature take place using a touchscreen display.

Operation principle

Air conditioning

A regulated dry air flow must be supplied at the DLB 2000 inlet. The precision of the adjustable humidity is guaranteed with a mass flow controller, which precisely adjusts the airflow. In the DLB 2000, the air is precisely regulated to the specified value of rel. humidity. The DLB 2000 has a large water reservoir, which can be heated up to 50 °C, sufficient for up to 8 hours of operation. This function guarantees extremely stable adjustment of rel. humidity and temperature.

Additional fields of application for the DLB 2000 are laboratory tasks with high requirements regarding the stability of rel. humidity and air temperature, such as adsorption experiments on filter media.

Benefits

- Adjustable relative humidity from 20 to 80 %
- Highest stability of relative humidity 0.2 %
- Easy handling by touch screen
- External control analogue 0 - 5 V
- Huge water supply tank
- Easy refilling of water
- Reliable function
- Low maintenance
- Reduces your operating costs!

DATASHEET

Volume flow	10 – 60 Nl/min (others on request)
Interfaces	Analog (0 – 5 V (set point)0 – 5 V (measured humidity))
Power supply	115 – 230 V, 50/60 Hz
Maximum counter pressure	0,5 barg Überdruck
Luftfeuchteregelung	20% – 80% (+/- 0.2% at 23 °C)
Water supply	1 l deionised water
Dimensions	280 • 320 • 460 mm (H • W • D)
Weight	Approx. 16 kg

APPLICATIONS

- Accurate regulation of rel. humidity for test rigs, e.g.
  - filter testing
  - active carbon filter testing
  - bioaerosol measuring device testinn
  - dust measuring device testing
  - etc.
- Conditioning of the dispersion air for the RBG 1000 and RBG 2000 dust dispersers (the instruction manual of the dust dispersers has to be followed).
- Laboratory experiments with special requirements for the stability of rel. humidity.

Mehr Informationen:
https://www.palas.de/product/dlb2000