

# Model BL762 Humidity Calibration Chamber



The BL762 humidity generator and calibrator is a vertical temperature and humidity generator that supports large calibration equipment. This unit features a temperature-controlled door, which is designed to maintain internal temperature and remain unchanged due to outside ambient temperature changes. The chamber temperature is controlled by a Peltier heat pump arrangement for maximum stability and minimum temperature gradient. The saturator assembly can be filled easily and can be recycled by heating when required.

## FEATURES

- 5-95%RH humidity @ 20°C
- Dew point is low to -60°C DP.
- Stability is  $\pm 0.1\%$ RH and  $\pm 0.02^\circ\text{C}$
- Uniformity is  $\pm 0.2\%$ RH and  $\pm 0.1^\circ\text{C}$
- Rapid humidity and temperature stabilization time, much faster than traditional two-pressure generator.
- 125L effective work volume
- Touch screen operation

## APPLICATION

- Humidity calibration laboratory
- Humidity test workshops

## SPECIFICATION

- Working principle: auto mixing of dry and wet air
- Humidity range: 5...95%RH ( $\geq 20^\circ\text{C}$ )
- Temperature range:  $-5\dots 65^\circ\text{C}$  ( $-30\dots +80^\circ\text{C}$  is option)
- Humidity stability:  $\pm 0.1\%$ RH
- Temperature stability:  $\pm 0.02^\circ\text{C}$
- Humidity uniformity:  $\pm 0.2\%$ RH
- Temperature uniformity:  $\pm 0.1^\circ\text{C}$
- Humidity ramp/soak changes:  $< 5$  minutes for 20% RH
- Temperature changes:  $0.1^\circ\text{C}/\text{minute}$
- Humidity resolution:  $0.1\%$ RH
- Temperature resolution:  $0.01^\circ\text{C}$
- Request water: distilled water
- Desiccant type: Molecular Sieve
- Chamber dimension: 500 x 500 x 600mm
- Effective volume: 125L
- Power supply: 220VAC 50Hz
- Power consume: 10KW
- Dimension (W\*D\*H): 1050 x 1500 x 1800mm
- Weight: 350kg
- Operation environment:  $10^\circ\text{C}$  to  $35^\circ\text{C}$ ,  $< 80\%$ RH

## SCOPE OF DELIVERY

- BL765 Humidity generator
- Air compressor
- Heatless regeneration adsorption compressor
- Overflow pipe
- Funnel
- Rubber stopper
- Test frame
- User manual
- Warranty Certificate

## OPTIONAL ACCESSORIES AND SERVICES

- ISO17025 accredited calibration (P/N: CAL-762)
- BL783 chilled mirror hygrometer
- BL784 chilled mirror dew point meter

## HOW TO ORDER

- BL762-65: Humidity chamber with  $-5$  to  $65^\circ\text{C}$
- BL762-80: Humidity chamber with  $-30$  to  $80^\circ\text{C}$