

## Model: CQB-1200-4

### 1. Function:

This **N2 cabinet** is designed to protect moisture-sensitive electronic components and valuable collections from moisture damage and oxidation with N2. Humidity range is adjustable from 1~50%RH.

**1.1 Display modes:** Microcomputer decimal LED display imported from America and Honeywell sensors, whose display precision of temperature is  $\pm 1^{\circ}\text{C}$ ; precision of humidity is  $\pm 3\% \text{RH}$ .

**1.2 Cabinet structure:** 1mm double powder coating steel, handles, airtight magnetic sealers and reinforced glass are adopted. The wheels are 360 degree rotating casters with breaks.

### 2. Specifications:

**2.1 Humidity Range:** 1~50%RH (adjustable)

**2.2 Outside Dimension:** W1200\*D672\*H1815mm

**2.3 Internal Dimension:** W1198\*D642\*H1625mm

**2.4 Capacity:** 1250L

**2.5 Shelves:** 5 shelves

**2.6 Color:** black

**2.7 Display Precision:**  $\pm 3\% \text{RH}$ ;  $\pm 1^{\circ}\text{C}$

**2.8 Structure:** 1mm thick carbon steel with paint.

**2.9 Door:** Handles, airtight magnetic sealers and reinforced glass.

**2.10 Wheel:** Four 3" wheels, two of them with brakes.



pic 1

### 3. QDN specifications:

QDN are used to control the filling of dry air into the cabinet. So the desired relative humidity in the nitrogen cabinet / nitrogen box can be reached with most efficient dry air utilization. For example, if 5%RH is the required condition, then dry air will stop filling when 5%RH is reached. The dry air can be nitrogen, CO2 or inert gas. However, nitrogen is the most commonly used gaseous matters to be used for drying the air. Traditional nitrogen cabinet/nitrogen box make the N2 filling into the cabinet continuously, unable to stop. However, with our newly QDN adapted, more than 50% of N2 can be saved immediately.



Control Panel of Dry Nitrogen Box

pic 2

### 4. QDN controller features:

- computerized and digitized Humidity control, setting between 1 and 99 %RH.
- Modular design (No exposed wiring).
- Anti-explosive device design.
- Hidden flow meter adjustment for safety and better looking.
- Soft pressure buffering design to avoid impact on the stored items.
- Wide-angle air purging design to save energy consumption.



QDN

pic 3



Nitrogen flow meter

pic 4