

## Model: CQB-575

### 1. Function:

This N<sub>2</sub> cabinet is designed to protect moisture-sensitive electronic components and valuable collections from moisture damage and oxidation with N<sub>2</sub>. 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.



pic 1

### 2. Specifications:

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

**2.2 Outside Dimension:** W905\*D823\*H1050mm

**2.3 Internal Dimension:** W903\*D773\*H869mm

**2.4 Capacity:** 607L

**2.5 Shelves:** 3 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.



Control Panel

pic 2

### 3. QDN specifications:

QDN digital nitrogen controllers 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, CO<sub>2</sub> 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 N<sub>2</sub> filling into the cabinet continuously, unable to stop. However, with our newly NC-2 controller adapted, more than 50% of N<sub>2</sub> can be saved immediately.

### 4. QDN 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