

Model: CQS-1200

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 $\pm 3\%RH$.

1.2 **Cabinet structure:** SUS304, 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*D695*H1820mm

2.3 **Internal Dimension:** W1198*D645*H1618mm

2.4 **Capacity:** 1250L

2.5 **Shelves:** 5 shelves

2.6 **Material:** SUS304

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

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

2.9 **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.

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.



Control Panel of Nitrogen Cabinet

Control Panel

pic 2



Nitrogen flow meter

pic 4



QDN

pic 3