

## Model: QSE-400

### 1. Function:

This N2 cabinet is designed to protect the electronic gadgets and valuable collections from moisture damage with N2. QSE-400 is adjustable from 1%RH to 50%RH. The interior environment is controlled by precise digital controller. The storage condition of relative humidity and temperature can be traced and graphed by Dr. Storage's unique data logger.

### 2. Features:

**2.1 Modular Design:** This is a modularly designed N2 cabinet. The main modules are display controller, power box, QDN, shelf, caster wheel, cable, graph software, data logger and reader(OPTION). All of the modules can be replaced easily.

**2.2 Green Design:** The performance of the N2 cabinet can be upgraded by just changing the modules. There will be no waste materials created to pollute the environment. The old modules can be collected and sent back to the maker. Dr. Storage dry cabinets can be used as long as the cabinet structure is in good condition. It means that the product life could last for 10 to 20 years. Thousands of our dry cabinets have been serving their owners for more than 20 years.

**2.3 Flexible Design:** The users can choose to buy data loggers, dehumidifiers in the beginning or can add these modules in future. The units are so flexible that users can select and install modules at any time.

**2.4 Easy Operation Design:** It is a plug and play N2 cabinet. Considerable training costs are saved. The default setting is 8%RH.

**2.5 Data Recording:** It is important to verify that the condition of storage meets the requirement. The users can connect notebook PCs directly to the RS232 port of the cabinet to acquire the data or use our data logger(OPTION) to record the data. With our data recording function, the historical fluctuation of relative humidity and temperature can be shown clearly in the graph. This uniquely patented function can easily verify if the objects are stored at proper condition. It is very convenient for those who carryout quality assurance procedures.

**2.6 Calibration Reminding:** The drift effect of sensors might influence the accuracy. In order to help complying with the regulation of ISO, a unique design of calibration expiration reminding function is offered in this model. When the sensor runs over 365 days, the decimal point in the panel will be flashed for reminding the user.

**2.7 Alert Setting:** There are two ways of alert - flash and buzz. Alert is activated when the relative humidity or temperature is higher than the upper limit setting. The flash and buzz alert can be activated by different delay time.

**2.8 Multifunction Storage Bins (option):** Inside bin: retrieve small components quickly.  
Outside bin: store ISO documents such as work sheets or quality instructions. Benefit: avoid human errors, simplify QA management.

**2.9 QDN:** QDN are used to control the filling of N2 into the cabinet. So the desired relative humidity in the nitrogen cabinet/nitrogen box can be reached. For example, if 5%RH is the required condition, then the N2 will stop to fill when <5%RH is reached. The dry air can be nitrogen, CO2 or inert gas.

#### Nitrogen saving 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.

### 3. Specifications:

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

**Outside Dimension:** W600\*H1274\*D672MM

**Capacity:**413L

**Shelves:** 3shelves

**Color:** Silver

**Voltage:** 230V

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

**Software:** Humidity Manager V2 for drawing the curve of RH and temperature.

**Structure:** SUS304 stainless steel.

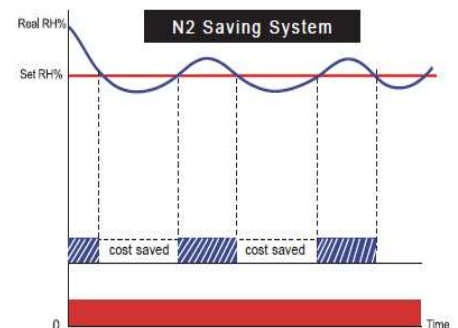
**The best performance of the dry cabinet is achieved under the ambient condition of temperature below 30°C and relative humidity below 60%RH.**



pic 1



Control Panel pic 2



pic 3