Dryzone®

We keep the right to improve the design and specification without notice.

%RH <C15U-1200-6 Performance>

Ambient:25℃ , 50%RH

Humidity(%RH)

Time(h)

LED display
Display temperature & humidity
Humidity range: 15~50%RH
Humidity precision: ±3%RH

Global Humidity Solution !

MEET STRICT MSD HANDING STANDARD OF J-STD-033

KUNSHAN GAOQIANG INDUSTRIAL EQUIPMENT CO.,LTD

The "Dryzone Series" Provides excellent Humidity management system

Company Profile

Our total dedication to humidity management means that we can now offer an integrated solution that complies with J-STD-033 standard. Our preeminence in successfully helping thousands of electronic factories throughout Asia has enhanced their competitive edge through our outstanding Humidity Control System. We have also helped thousands of electric factories worldwide to upgrade their product quality which secured those clients earning repeat orders worth multibillion US dollars. To offer comprehensive services to our clients in China, sales offices and service stations were also set up in Shanghai, Kunshan, Beijing and Shenzhen in 2002.
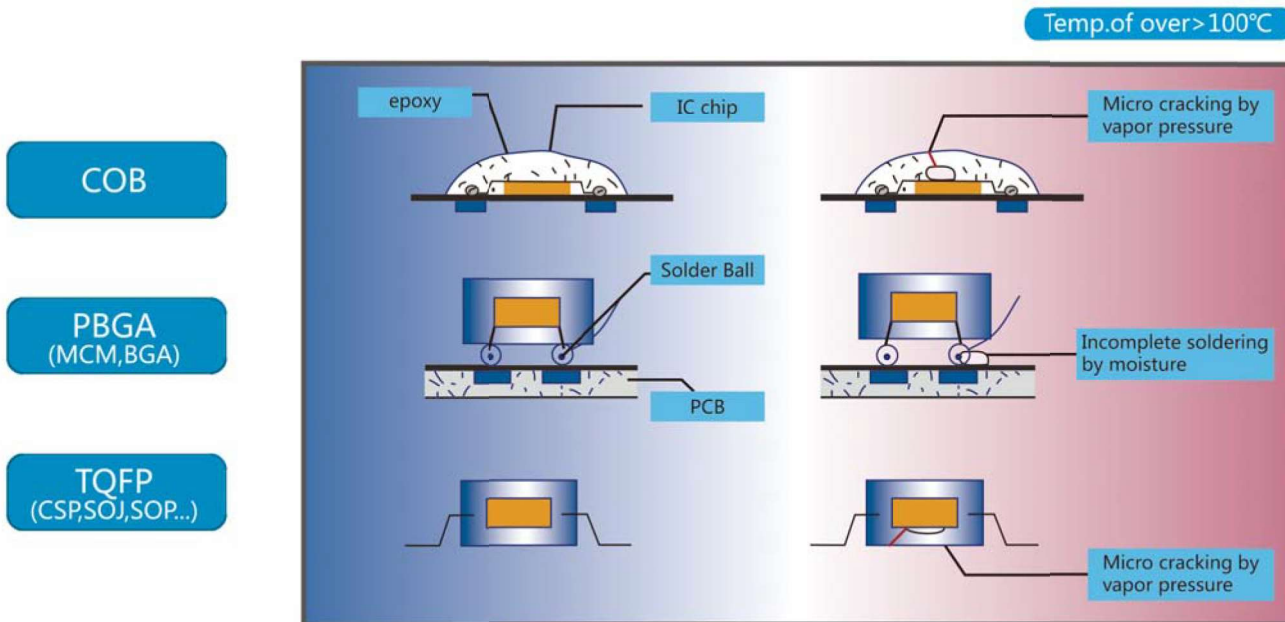
Our Customers

Acer | ISRO India | Panasonic | AUO | National Chip Implementation Center
FOXCONN | Conversion(APC) | Bose | CAMPAL | Celestica | Philips | AIDC
UMC | Flextronics | Kennametal | ASEGlobal | OMRON | TPO
TSMC | Tyco | Alcatel | Proton-Electrotex | Samsung | Jabil
INTEL | VLSIP | Optimax | Tex Micron | ASUS | Liteon Media | INER
CHIMEI | SONY | SUNPLUS | BenQ | UT Starcom | Wistron ...etc

Dryzone®

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How does the Dryzone humidity control system improve manufacturing yield?

Following crack problems are caused by being lack of precise humidity control in manufacturing.

Temp.of over>100℃

COB

PBGA
(MCM,BGA)

TQFP
(CSP,SOJ,SOP...)

epoxy

IC chip

Micro cracking by vapor pressure

Solder Ball

PCB

Incomplete soldering by moisture

Micro cracking by vapor pressure

Use Dryzone Products to improve the manufacturing yield.

1. Dry Storage: moisture sensitive SMD packages are exposed in the air should be stored in Dryzone C2E or E40C series for resetting the floor life.

   For example: If MSD parts of MSD Level 4,5 and 5a are exposed for less than eight hours, they can be stored in a dry cabinet for resetting the floor life. However, if their exposure time is longer than eight hours, the SMD packages should be stored at 40℃ in a E40C series to reset the floor life.

2. Environmental Monitor: The temperature and humidity of production line should be kept stable. Adapt an Alarm Hygrometer HT-5D to alert the engineers when immediate action is needed.Furthermore, centralized net work monitoring function helps the engineers to manage many alarm Hygrometers on a PC at the same time.

Select the type

TYPE	CF1	C2E	C1U	C15U	E40C	E60C
Humidity range	<1%RH	≤5%RH	1~50%RH	15~50%RH	40℃, ≤5%RH	60℃, ≤1%RH
Baking and Drying					●	●
LED Display (precision: ±1.0℃, ±2.0%RH)	●	●	●	●	●	●
Epoxy Paint (white)			●	●		
Antistatic Paint (Black)	●	●			●	●

Select the accessories

We supply following additional modules

1. ESD safety cabinet : 10^6~$10^9\Omega$

2. Stainless steel cabinet (SUS#304) is widely adapted in clean room.

3. Slide-shelves: it is convenient for reaching the components.

4. Nitrogen flow meter.

5. Warning light and buzzer: it will be activated when relative humidity exceeds the pre-set limit for 30 minutes.

6. ESD wheels

7. Nitrogen Filling Module (QDN): The nitrogen will stop as soon as the relative humidity reaches preset digital value. So nitrogen can be dramatically saved. Nitrogen doesn t need to be pumped in continuously.
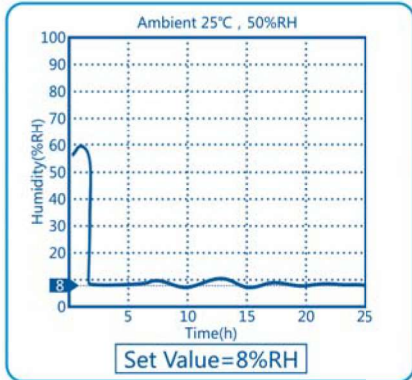
C1U | C15U
1~50%RH | 15~50%RH

Humidity Range: 1~50%RH

<Performance>

Ambient 25℃ , 50%RH

Set Value=8%RH

Sample: C1U-1200-6

Humidity Range: 15~50%RH

<Performance>

Ambient 25℃ , 50%RH

Set Value=20%RH
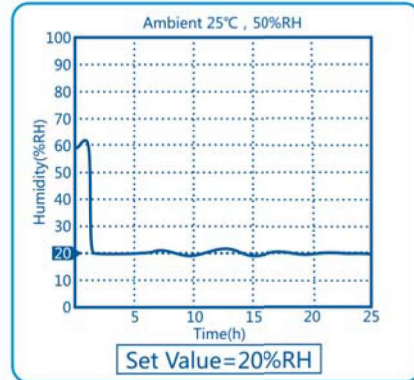
Sample: C15U-1200-6

C1U-157 **C15U-157**

Capacity: 165L
External Dimension: W450×D475×H960mm
Internal Dimension: W448×D425×H869mm
Shelves: 3 units

C1U-315 **C15U-315**

Capacity: 334L
External Dimension: W905×D475×H1050mm
Internal Dimension: W903×D425×H869mm
Shelves: 3 units

C1U-575 **C15U-575**

Capacity: 607L
External Dimension: W905×D823×H1050mm
Internal Dimension: W903×D773×H869mm
Shelves: 3 units

C1U-400 **C15U-400**

Capacity: 413L
External Dimension: W600×D695×H1274mm
Internal Dimension: W598×D645×H1071mm
Shelves: 3 units

C1U-600 **C15U-600**

Capacity: 624L
External Dimension: W600×D695×H1820mm
Internal Dimension: W598×D645×H1618mm
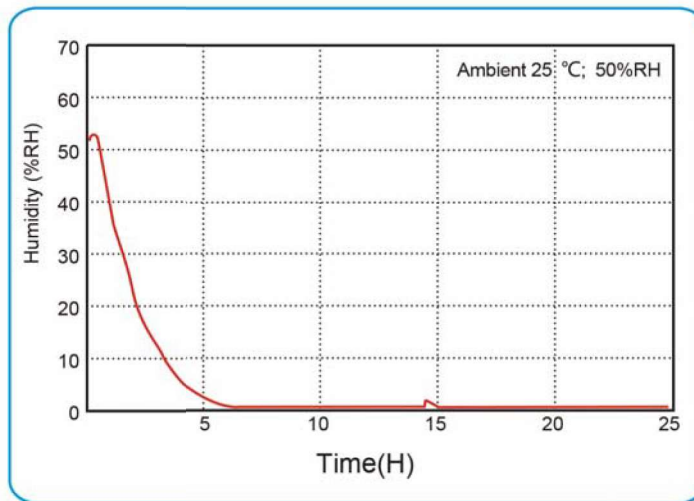Shelves: 5 units

C1U-1200-6 **C15U-1200-6**

Capacity: 1250L
External Dimension: W1200×D695×H1820mm
Internal Dimension: W1198×D645×H1618mm
Shelves: 5 units

CF1<1%RH

Description

CF1 is specially designed for moisture sensitive devices of level 4,5,5A,or 6. The CF1 can eliminate oxidation of stored parts. So it is useful for storing parts such as precision metal parts, miniature devices, pharmaceutical substance, biotic specimens, battery, crystal, IC package module, optical lens or scientific precision instruments..etc.

<Performance>

CF1-600

Capacity: 624 L
External Dimension: W600×D695×H1820mm
Internal Dimension: W 598×D645×H1618mm
Shelves: 5 units
Power Consumption: Ave. 83 Wh; Max. 285W

CF1-1200-6

Capacity: 1250L
External Dimension: W1200×D695×H1820mm
Internal Dimension: W1198×D645×H1618mm
Shelves: 5 units
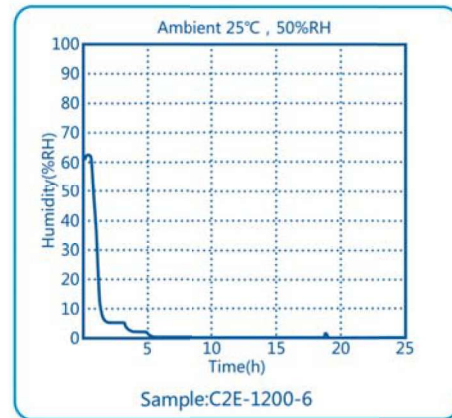Power Consumption: Ave. 135Wh; Max.425W

C2E≤5%RH

Dryzone®

Display Panel

24.7   31.0
°C   %RH

Temperature/Humidity display

<Performance>

Ambient 25℃ , 50%RH

Humidity(%RH)

Time(h)

Sample:C2E-1200-6

C2E-157

Capacity: 165L
External Dimension: W450×D475×H960mm
Internal Dimension: W448×D425×H869mm
Shelves: 3 units
Power Consumption: Ave. 55Wh; Max.150W

C2E-315

Capacity: 334L
External Dimension: W905×D475×H1050mm
Internal Dimension: W903×D425×H869mm
Shelves: 3 units
Power Consumption: Ave. 55Wh; Max.150W

C2E-575

Capacity: 607L
External Dimension: W905×D823×H1050mm
Internal Dimension: W903×D773×H869mm
Shelves: 3 units
Power Consumption: Ave. 55Wh; Max. 155W

C2E-400

Capacity: 413L
External Dimension: W600×D695×H1274mm
Internal Dimension: W598×D645×H1071mm
Shelves: 3 units
Power Consumption: Ave. 55Wh; Max. 155W

C2E-600

Capacity: 624L
External Dimension: W600×D695×H1820mm
Internal Dimension: W598×D645×H1618mm
Shelves: 5 units
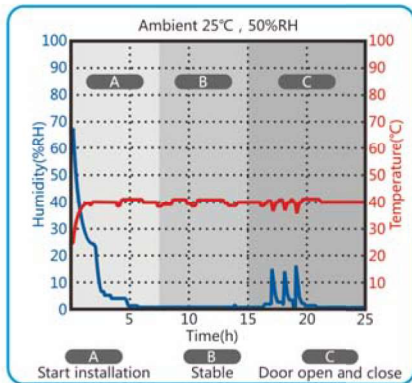Power Consumption: Ave. 55Wh; Max. 155W

C2E-1200-6

Capacity: 1250L
External Dimension: W1200×D695×H1820mm
Internal Dimension: W1198×D645×H1618mm
Shelves: 5 units
Power Consumption: Ave. 105Wh; Max. 300W
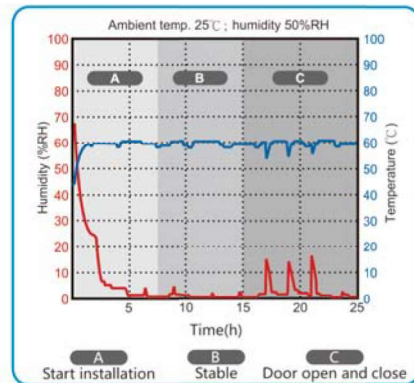
E40C/E60C

Humidity Range: 40℃, ≤5%RH

<Performance>

Ambient 25℃, 50%RH

A — Start installation
B — Stable
C — Door open and close

Sample: E40C-1200-6

Humidity Range: 60℃, ≤1%RH

<Performance>

Ambient temp. 25℃; humidity 50%RH

A — Start installation
B — Stable
C — Door open and close

Sample: E60C-1200-6

40℃ /60℃ baking dry cabinet

E40C/E60C are plug and play machines. These auto low temp. baking dry cabinets can be stable at 40°C , ≤5%RH and 60C ≤1%RH. This is specially designed for SMD packages complied with J-STD-033.

■ Wider application in resetting the floor life:Moisture sensitivity SMD packages which are exposed to the air and exceed the floor life should be stored in the E40C/E60C series for resetting the floor life.(see J-STD-033 table 4-1,4-3)

■ Labor cost saving: Low temp. baking dry cabinet allows customers bake SMD package with plastic tray. No more wasting time and effort removing SMD package/ components from plastic tray. It also eliminates the risk of damaging trays.

E40C-240

Capacity: 144L
External Dimension: W600×D840×H709mm
Internal Dimension: W544×D576×H461mm
Shelves: 2 units
Power Consumption: Ave. 200Wh; Max. 450W

E40C-480 E60C-480

Capacity: 305L
External Dimension: W600×D840×H1308mm
Internal Dimension: W544×D576×H974mm
Shelves: 3 units
Power Consumption: Ave. 300Wh; Max. 600W

E40C-600 E60C-600

Capacity: 466L
External Dimension: W600×D840×H1820mm
Internal Dimension: W544×D576×H1487mm
Shelves: 5 units
Power Consumption: Ave. 300Wh; Max. 600W

E40C-1200-6 E60C-1200-6

Capacity: 980L
External Dimension: W1200×D840×H1820mm
Internal Dimension: W1144×D576×H1487mm
Shelves: 5 units
Power Consumption: Ave. 600Wh; Max. 1200W

Hygrometer

Help Managing the Temperature and Humidity of production Line!

Function

Hygrometer is installed at precisely controlled environment, such as storage room of precious collections, production line of high tech electronic components, optical and medical industries...etc.

CP03U

Features

■ Superior visibility: Equipped with LED display, the perfect visibility can definitely avoid any ambiguous reading. It is important in many occasions.

■ Improve management efficiency: Manager can be informed right away when factory/ lab/ room's RH/Temp. requirement is not fulfilled.

HT-5D

Type	CP03U	HT-5D
Operation Range	-20~65.9°C, 0.1%~99.9%RH	0~50°C, 0~90%RH
Precision	±2%RH(1%~90%RH) ; ±1°C(at25°C)	±1.0°C,±2.0%RH(at 50%RH/25°C)
Resolution	0.1%RH , 0.1°C	0.1°C, 0.1%RH
Dimension	W68×D45×H25mm	W310×D70×H320mm
Weight	63g	3kgs
Power	110/220V, 50/60Hz	110/220V, 50/60Hz
Visibility Distance		30m
Power Consumption(average)	2 AAA battery	12Wh

Energy Saving N₂ System

NC-2M is used to control the filling of dry air into the cabinet. N₂,CO₂ or insert gas filling will stop as soon as the pre-set humidity value is reached. For example, if 5%RH is the required condition, the dry air will stop to fill while 5%Rh is reached. Over 30%~60% of N₂ can be saved by using our N₂ Saving design.

Digital Nitrogen Controller

■ Energy saving : Dry air will no longer fill continuously.

■ Easy installation : Any traditional N2 Cabinet can be upgraded within 20 minutes by adding NC-2M.

Energy Saving N₂ Cabinet

■ N₂ cabinet will stop as soon as the pre-set relative humidity value is reached. Tremendous waste is saved by using our N₂ saving design.

■ If you already have traditional N₂ cabinet, you can choose Digital Nitrogen Controller to modify your existing N₂ cabinet into an energy saving cabinet.

NC-2M

Optional: Flow meter

Ⓐ Energy Saving Nitrogen Cabinet is equipped with modules as below.

❶ LED Display

❷ Dry Units:
absorb moisture to 10%RH(option)

❸ QDN: N₂ filling module
infeed clean and dry nitrogen

CQS-1200

■ We accept customized requirements or can refer to page 4 and 5 to choose the size of cabinets

Ⓑ Digital Nitrogen Controller can be installed on the top of nitrogen cabinet.

❶ Digital Nitrogen Controller

Flow Meter

Nitorgen
(0~0.85MPa)

H/T sensors

Pressure
resistant
tube

Joint

Power

CQS-1200

Options

① Flow Meter will be installed outside of QDN.

Professional Dry Cabinets

Dryzone®

Prevention of Damp, fungus, dust, oxidation, aging and rust!

Dryzone electronic moisture proof box, file management

Most suitable for the preservation of documents, slides video(Sound) tape microfilm, optical disk, disk camera, CD...

Advantage

1. 28 years experiences in providing humidity management solution. Our products are user-friendly and comply with industrial grade manufacturing.

2. Professional design by Taiwan with 32 patents and certificates worldwide including UL, CE, etc.

3. Provide comprehensive after-service and professional consultant service.

Humidity range 25-55% RH

HDE-300

Capacity: 255L
External Dimension: W400×D528×H1375mm
Internal Dimension: W398×D500×H1280mm
Shelves: 5 units

HDL-100/190

HDL-300 LCD display

HDL-100

Capacity: 67L
External Dimension: W400×D408×H513mm
Internal Dimension: W398×D380×H441mm
Shelves: 2 units

HDL-190

Capacity: 124L
External Dimension: W400×D408×H895mm
Internal Dimension: W398×D380×H823mm
Shelves: 3 units

HDL-300

Capacity: 255L
External Dimension: W400×D528×H1375mm
Internal Dimension: W398×D500×H1280mm
Shelves: 5 units

KUNSHAN GAOQIANG INDUSTRIAL EQUIPMENT CO.,LTD

c(UL)us CE EMC tested LVD tested