

# AUTO DRY BOX

Trusted Moisture Control Solution  
Eliminating Moisture Damage

25~55%RH

< 5  
< 10 %RH  
< 20

FAST  
**SUPER DRYER**



[www.eurekadrytech.com](http://www.eurekadrytech.com)



## TAIWAN DRY TECH CORP.

owns the best dehumidifying technologies in the world, producing EUREKA Auto Dry Box trusted by millions of global users. EUREKA is the brilliant humidity proof storage solution to ensure preservations in all ambient temperature and humidity levels for your living and work environments.



# FAST SUPER DRYER \* SERIES

R&D / LAB Essential Tool

10-50%RH <20%RH <10%RH <5%RH

Eureka's cabinets are an alternative to baking, MBBs and nitrogen purge storage. All of Eureka's Ultra-Low Humidity Storage Cabinets conforms to IPC/JEDEC J-STD 033 and IPC 1601 Standards. Additionally, our ESD Safe Design adheres to IEC-61340-5-1 (ESD) Standard.

### Eureka Fast Super Dryer solves problems with :

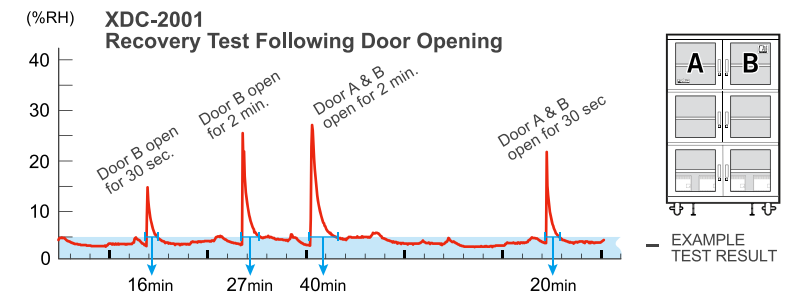
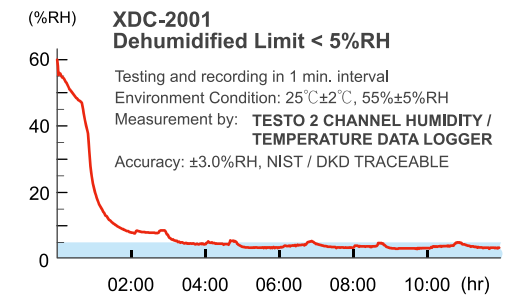
- \* PCB delamination
  - \* Blistering and warping
  - \* IC blistering
  - \* Popcorning
  - \* Micro-cracking
- and many other moisture problems during high temperature reflow process.



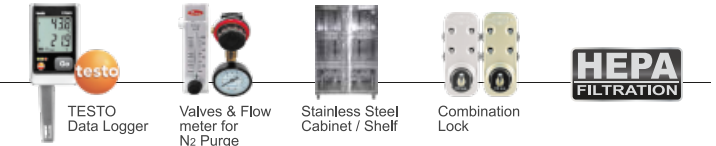
Specification	TYPE-101	TYPE-501	TYPE-1001	TYPE-2001
Model / Vol. (L)	TYPE-101 93L	TYPE-501 372L	TYPE-1001 657L	TYPE-2001 1314L
External Size (cm)	W40 x H74 x D45.5	W88x H90 x D58	W60 x H193 x D71	W120 x H193 x D71
Accessories	Anti-Static Shelves x2	Anti-Static Shelves x3	Anti-Static Shelves x5	Anti-Static Shelves x5
	<b>TUS Series</b>	<b>TD Series</b>	<b>SDC Series</b>	<b>XDC Series</b>
Range	10%-50%RH	< 20%RH	< 10%RH	< 5%RH
Controller Type	Manual	Automatic	Automatic	Automatic
Recovery Time (One door open for 30sec.)	Within 2 hours back to < 20%RH	Within 30 minutes back to < 20%RH	Within 30 minutes back to < 10%RH	Within 30 minutes back to < 5%RH
Applications	General materials (ex. chemicals, reagents, etc) in laboratory, long term warehousing minimal door access.	Hygroscopic components in general manufacturing.	Unsealed Moisture Sensitive Device (MSD) on components and materials in SMT/PCB assembly process.	Infinite storage of MSD in ultra-low humidity, improving yield rates in EMS and biotech industries.

Note: SDC and XDC series are designated to comply with the IPC/JEDEC J-STD-033 Standard. The specification above were tested under 25°C, 60%RH environment.

### Performance Charts



### Options



**Customized**  
 Custom designed dry cabinets upon request.

### Other Method's Weaknesses, include:

#### Vacuum / Dry Air, Nitrogen Purge

- Complex gas pipeline / Valves / Control
- High setup cost.
- Safety concern (Nitrogen shock).
- Pressurized operation.

#### Baking Oven

- Oxidation, Warping, Intermetallic buildup from heat.
- Temperature difference condensation.
- High energy consumption.



#### Air Conditioning, Dehumidifier

- Unable to reach <40%RH.
- Unable to dehumidify at low temp.
- High energy consumption.
- Costly maintenance and repair fees.



#### Desiccator

- Constant desiccant replacement.
- Uncontrollable RH level.

Problems solved with EUREKA FAST SUPER DRYER

## EUREKA'S PRODUCT APPLICATION

Trace moisture increase defective rates and reliability problems on precision joints / key components, such as micro-oxidation, solder joint cracking, popcorn cracking, micro-denaturation, blistering.

Moisture causes oxidation, corrosion on metal materials, loss of precision, faulty readings & diagnosis, failure of electric circuits.

### 20 - 40%RH

- ◇ Reagents ◇ Standards ◇ Fiber Optics ◇ Chemicals
- ◇ Resins ◇ PP plate (Prepreg) ◇ PCB ◇ Weapons
- ◇ 3D printer filament ◇ Gun ◇ Bullets

### < 40%RH

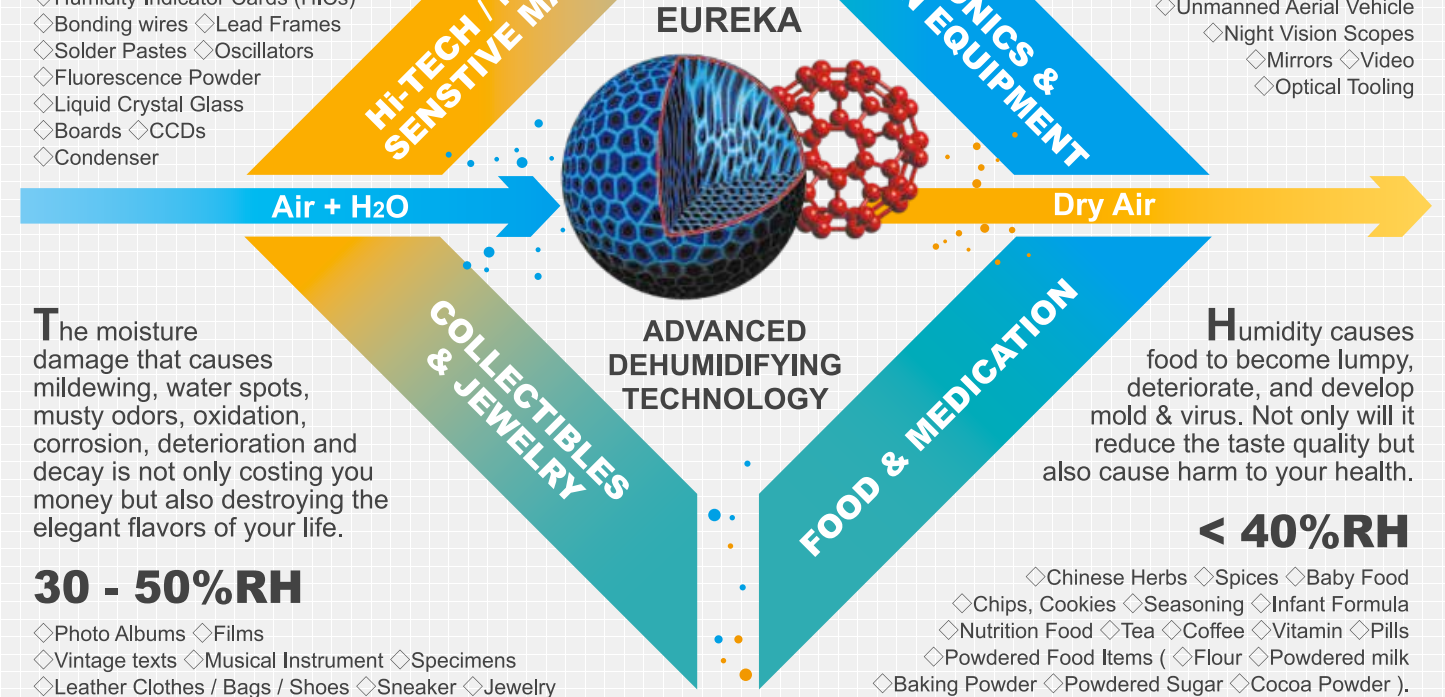
- ◇ Media devices ◇ Tablets ◇ Disks ◇ LTOs
- ◇ Hearing Aid ◇ Measurement Gauge
- ◇ Microfilm ◇ Measuring Equipment

### < 20%RH

- ◇ IC package (QFP, BGA, CSP, SDP)
- ◇ Nano materials ◇ Semi-conductors
- ◇ IC chips ◇ Wafers ◇ Stacked Die
- ◇ Humidity Indicator Cards (HICs)
- ◇ Bonding wires ◇ Lead Frames
- ◇ Solder Pastes ◇ Oscillators
- ◇ Fluorescence Powder
- ◇ Liquid Crystal Glass
- ◇ Boards ◇ CCDs
- ◇ Condenser

### 40 - 50%RH

- Optical photographic equipment:
- ◇ Camera & Lenses ◇ Filters
  - ◇ Microscopes ◇ Telescopes
  - ◇ Unmanned Aerial Vehicle
  - ◇ Night Vision Scopes
  - ◇ Mirrors ◇ Video
  - ◇ Optical Tooling



The moisture damage that causes mildewing, water spots, musty odors, oxidation, corrosion, deterioration and decay is not only costing you money but also destroying the elegant flavors of your life.

Humidity causes food to become lumpy, deteriorate, and develop mold & virus. Not only will it reduce the taste quality but also cause harm to your health.

### 30 - 50%RH

- ◇ Photo Albums ◇ Films
- ◇ Vintage texts ◇ Musical Instrument ◇ Specimens
- ◇ Leather Clothes / Bags / Shoes ◇ Sneaker ◇ Jewelry
- ◇ Mechanical Watch ◇ Historical Relics ◇ Artworks ◇ Antiques

### < 40%RH

- ◇ Chinese Herbs ◇ Spices ◇ Baby Food
- ◇ Chips, Cookies ◇ Seasoning ◇ Infant Formula
- ◇ Nutrition Food ◇ Tea ◇ Coffee ◇ Vitamin ◇ Pills
- ◇ Powdered Food Items ( ◇ Flour ◇ Powdered milk
- ◇ Baking Powder ◇ Powdered Sugar ◇ Cocoa Powder )

### Common places in need of moisture control...



**Customized** Providing Protection For All Types Of Materials / Equipment / Files / Cultural Relics

### Some uses include...



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**Eureka Products Application**

www.eurekadrytech.com



## Personal Compact Series

Entry level. Space-saving, easy set up and placement, easy to incorporate with existing furnishings.



25-55%RH

20-55%RH

30-55%RH

Specification		HD-40G	RT-48C	CF-65	AD-66	DX-58W	AD-25P / AD-25A
Model / Vol. (L)		32L	46L	52L	65L	46L	23L
External Size (cm)		W34 x H39 x D35	W31.2 x H47 x D38.4	W35.5 x H55.2 x D33	W40 x H50.2 x D43.7	W31.2 x H47 x D38.4	W26 x H38 x D28
Accessories		Shelves x1	Sliding Trays x1	Shelves x1	Shelves x2	Sliding Trays x1	Steel Shelves x1

## Modular Series

Movable partitions for storage customization. Height-adjustable shelves for space utilization. Upright design for maximum storage with minimum footprint.



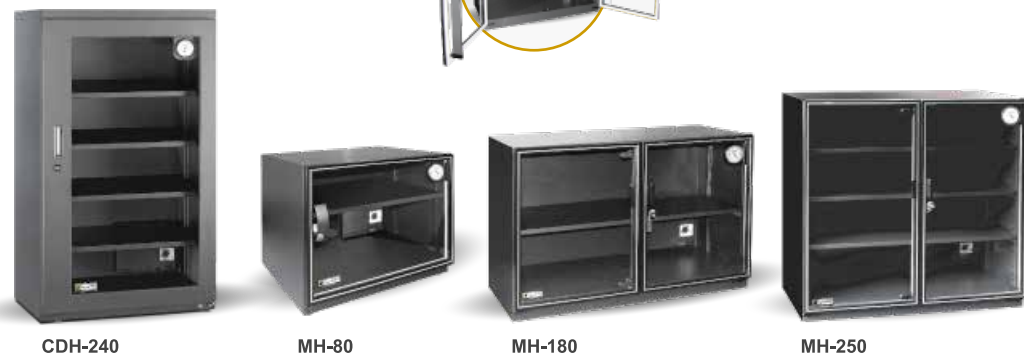
25-55%RH

Specification		DX-76	DX-106	DX-126	DX-206 / ADF-3100B / ADF-3100W
Model / Vol. (L)		72L	114L	132L	174L
External Size (cm)		W40 x H55.5 x D41.2	W40 x H83.5 x D41.2	W40 x H95 x D41.2	W40 x H123 x D41.2
Accessories		Sliding Trays x1 + Shelves x2	Sliding Trays x1 + Shelves x3	Sliding Trays x2 + Shelves x3	Sliding Trays x2 + Shelves x4

## Wide Capacity Series

Horizontal design for wider and larger items.

**Obstruction Free Patented Design**  
Eliminates the center bar in the middle of the cabinet. Convenient for users to store & access wide & bulky items.



25-55%RH

Specification		CDH-240	MH-80	MH-180	MH-250
Model / Vol. (L)		254L	81L	163L	257L
External Size (cm)		W60 x H109 x D42.5	W54 x H47 x D44	W80 x H55.5 x D45.5	W80 x H83.5 x D45.5
Accessories		Steel Shelves x 4	Steel Shelves x 1	Steel Shelves x 1	Steel Shelves x 3

## Professional Heavy-Duty Series

Heavy-duty steel shelves for bulky items. Equipped with analog thermo-hygrometer. Stackable for storage expansion. Obstruction free design, Convenient for storage and retrieval.



25-55%RH

Specification		AD-280H/MH / AD-580MH / MH-450M	AD-350H/MH	AD-580H/MH	MH-450/M	AD-480	AD-700	AD-1280H
Model / Vol. (L)		276L	372L	534L	425L	436L	657L	1314L
External Size (cm)		W88 x H89.5 x D39.5	W88 x H90 x D53	W88 x H89.5 x D74.5	W106 x H96 x D46.5	W60 x H136 x D66	W60 x H193 x D66	W120 x H193 x D66
Accessories		Steel Shelves x3	Steel Shelves x3	Steel Shelves x3	Steel Shelves x3	Steel Shelves x3	Steel Shelves x5	Steel Shelves x5

## Executive Filing Series

Spacious drawer-design for records management, filing articles & documents.

Easily assembled for expansion. MD-5250 & MD-5500 can be assembled with other units. Enhancing storage configuration for microfilm, DVD, lenses, components, etc.



25-55%RH

Specification		MD-5250	MD-5500	MD-2000	GD-1000
Model / Vol. (L)		239L	479L	903L	727L
External Size (cm)		W53 x H106 x D46.5	W106 x H106 x D46.5	W106 x H202 x D47	W67.5 x H165 x D76
Accessories		Drawers x5	Drawers x5	Drawers x10 + Steel Shelves x3	Drawers x10

## Home Furniture Series

Innovative Dehumidifying Furniture. Keeps clothes / shoes fresh and allergens away.

Automatic dehumidifying wardrobe controls humidity level to <55%RH, eliminates allergens such as dust, mites living in clothes, pillows, comforters and blankets, etc. Significantly reduces mite-caused allergies. Store your collection under 50%RH in the dry cabinet to restrain fungus growth and prevent foul odors.



25-55%RH

35-55%RH

Specification		CDH-240	CD-106	CD-126	HD-501M	HD-1201M	HD-1501M
Model / Vol. (L)		254L	114L	132L	425L	638L	957L
External Size (cm)		W60 x H109 x D42.5	W40 x H83.5 x D41.2	W40 x H95 x D41.2	W106 x H97 x D46.5	W60 x H176 x D67	W90 x H176 x D67
Accessories		Steel Shelves x4	Steel Shelves x3	Steel Shelves x4	Steel Shelves x 4	Steel Shelves x1 + Hanging Rod x1	Steel Shelves x1+ Hanging Rod x1

# EUREKA'S SUPREME FEATURES



## Airtight Cabinet

- \* 100% in-house manufactured.
- \* Best quality finish with anti-rust coating.

## Calibrated Analog Hygrometer

- \* Battery Free, continues monitoring during power outages.
- \* Independently monitors %RH, assuring true moisture proof environment.



\*Various hygrometer options available

## Height Adjustable Shelves

## Full range dehumidifying core unit options.



## Special Features

### 1. AUTOMATIC DEHUMIDIFICATION

Plug and play. No water tanks to drain. No pipes to run. No consumable parts to replace.

### 2. ENERGY SAVING

Minimal electricity consumption. Continues dehumidifying and RH monitoring during blackouts.

### 3. AMBIENT TEMP / PRESSURE OPERATION

Stable drying in all temperatures. No condensation issue from temp. changes, No  $\Delta T$  or pressure variation effects.

### 4. SAFE

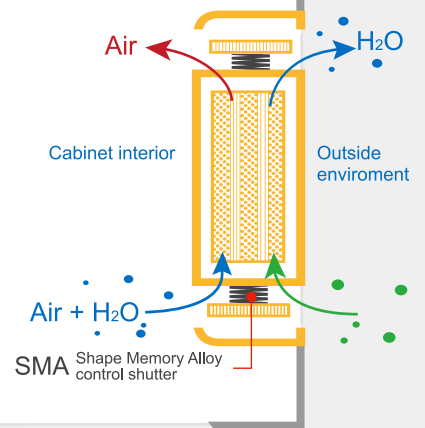
Compressor free. No overheating issues.

### 5. DURABLE QUALITY

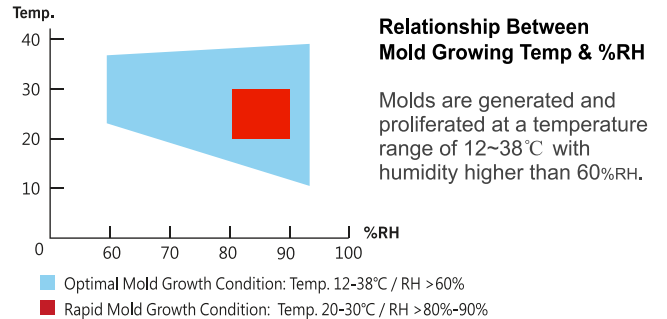
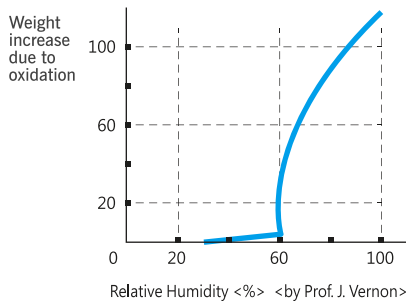
Low failure rate, easily repaired by users.

### 6. No. 1 TRUSTED BRAND

Over 20 years of experience. Trusted by millions worldwide.



# BEWARE OF HUMIDITY HARM



## SOLVING 4 MAJOR MOISTURE PROBLEMS

Mold begins to develop at 60%RH, Materials begins to oxidize and deteriorate at 35%RH

%RH is the relative humidity percentage in the air.

Mold / Fungus  
Oxidation  
Deterioration  
Trace Moisture

>60%RH Environments: develop mold / fungus / foul odor, degrade, color fade, sound off-pitch and tarnish.

>40%RH Environments: cause oxidation, loss of luster, corrosion, mechanical aging, poor contact, distortion and other failures.

>20%RH Environments: cause deterioration, affecting food safety, manufacturing quality, accuracy of research / testing.

>5%RH Environments: cause increased defective rates affecting all moisture sensitive devices / components / materials and semi-finished products.