Keep the Largest Dry Cabinet Market Share in Japan and Enjoy the Higher Reputation!

**Super Dry**

World Leading Technology
More Than 40 Years

New!

**MSD**
Medium Temperature / Low Humidity

New!

**SUS**
Made of all Stainless Steel
Ultra Low Humidity

Silicon • Electronic equipment
Semiconductor
Electronic Components • Food
Drug and Precision Machinery
• Optical Instruments

Revolution of Low Humidity Storage!!

1. Room temp (25 ℃)~ 50 ℃ + ≤5%RH • MSD Series
2. Cabinets made of all stainless steel 2%RH • SUS Series
3. Ultra-low Humidity 1%RH • 01 Series
4. Ultra-low Humidity 2%RH • 02 Series
5. High cost performance Humidity 3%RH • 03 Series
6. Long Term Storage Humidity 20%RH • Auto Dry
7. Acrylic Nitrogen Cabinet

**MSD Series**
Temperature:
Room Temperature(25 ℃)~50 ℃
Humidity: 1%RH

- Chips Needed to be Baked in Cabinet
- Components that Can not be Baked at High Temperature Tape Goods

**01 Series**
6 models
Humidity: 1%RH

- Inner Humidity 1%
- Continuous to Keep
  (Unloaded at Environment Humidity of 50~60%)

**02 Series**
7 models
Humidity: 2%RH

- Inner Humidity 1%
- Continuous to Keep
  (Unloaded at Environment Humidity of 50~60%)

**N2 Saving Dry Cabinet**

- Electronic Dry Cabinet Combined with N2 Saving Purging System
- Fast Dehumidification and Recovery

Available for all models

The World's Leading Automatic Dry Cabinet Supplier

Manufactured by TOYOLIVING CO., LTD.

2016
History of Totech

- **1974** The foundation of Toyo Living Co., Ltd. The development of dry unit started.

- **1976** Instead of using silica gel desiccant, the dry unit, which is installed with the new desiccant, has been firstly come into the Japanese market through agents in the field of physical and chemistry.

- **1982** The manufacturer of home electronic applicant, TOSHIBA bought our dry unit, and sold out 13,500 sets only within three months from June to August. (It was promoted on 30-second TV commercial once)

- **1983** With the installation of Shape Memory Alloys (SMA), the dry unit has been firstly come into the optical market in Japan.

- **1987** As the usage of dry cabinet (Auto Dry, with humidity setting 30~50%RH) shift from the optical market to the field of semiconductor, the humidity setting is verified to 3%RH, 2%RH, and 1%RH. Besides, the air clean dry cabinet with a HEPA filter is also developed at this time.

- **Beginning of 1990s** To meet the storage of semiconductor, the temperature baking dry cabinet is developed, for both dehumidifying and medium temperature baking. (Room Temperature 50 degrees)

- **Beginning of 21 century** Enter the market of Europe and America.

- **2006** Totech Global Co., Ltd. was established to take in charge of the overseas sales and service of Toyo Living products.

- **2008** Totech Shanghai Co., Ltd. was set up to further expand the global market of Totech dry cabinets.

Office  Factory
**Super Dry Features**

1. **Digital Control Panel Adjusting Humidity**

   [Image of Digital Control Panel]

2. **Features of Super Dry Accord to or even Exceed IPC/JEDEC J-STD-033C**

3. **Perfectly ESD Safe· Fit for Storage of Semiconductor, Electronic Component, Accords to ESD-IEC61340-5-1**

4. **Warranty Period 2 Years**

**Series & Features**

| ★ MSD Series | Medium Temperature: Room temperature (25°C)~50°C  
|              | Low Humidity: ≤5%RH |
| MSD Max.(50 °C) Forced convection of inner hot air  
| Semiconductor, electronic components, powder material, tape material, etc. |

| ★ SUS Series | Inner Humidity Keeps at 2% or 1%RH |
| Made of all stainless steel, with ultra low humidity, most suitable for clean rooms and labs. |

| ★ 01 Series | Inner Humidity Keeps at 1%RH |
| Dry storage of IC, silicon wafers, aerospace related instruments and tools, optical components, etc  
| Fast recovery after door open-and-close |

| ★ 02 Series | Steady Low Humidity· Long Term Storage  
| Average door open-close 1~2 times a day keeps at 2%RH  
| Save energy appr.50% |

| ★ 03 Series | Low Humidity: <3%RH  
| High cost performance  
| Reach <3%RH, fit for medium/long term storage of PCB and IC. |

| ★ 20 Series | Medium Humidity: 20~50%RH  
| Low cost  
| Reach 20%RH, fit for medium/long term storage. |

| ★ Auto Dry | Inner Humidity: 20~50%RH |
| Inner Humidity Adjustable  
| Capacity 1160L~121L  
| ★Suitable for Universities, Institutes, Labs, Food, etc |

| ★ Acrylic N₂ Cabinet | Dry Unit Optional, <3% or 20~50%RH |
| Transparent Nitrogen Cabinet  
| Easy for observation |
Avoid high temperature (>100°C) baking, easy for operation.

Automatic Ultra-low Humidity

SUPER DRY

Medium Temperature
Low Humidity

Pioneer of Dry Cabinet
Japanese Patent

MSD Series
Temperature: Room temperature (25°C)~50°C Humidity: ≤5%RH

SDM-1206-01 MSD-1202-02 MSD-701-02 MSD-301-02

Advantages to Items Stored

1. Mild baking: Cause no flaws to SMDs during dehumidification.
2. No need of pre-baking: To prevent the defective products
3. Moisture prevention: To prevent moisture absorption in one hour after taken from the cabinet.

※ This product has the function of heating and dehumidifying, has no function of refrigerating

1. Avoid high temperature (>100°C) baking, easy for operation
2. Control and show inner humidity on the digital panel
3. Accord to IC package management standard IPC/JEDEC J-STD-033C
4. Warranty period 2 years

Heating to Max 50°C
Hot air blows from bottom to the top, making the temperature even inside cabinet.
Precise sensor installed, digital control panel, operation easily. Items cannot be stored on the bottom (air outlet) of cabinet to prevent hot air to be blocked.

[ Note ] ※Specifications are subject to change.

<table>
<thead>
<tr>
<th>Model</th>
<th>SDM-1206-01</th>
<th>MSD-1102-02</th>
<th>MSD-701-02</th>
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<td>Capacity (L)</td>
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<td>Weight (kg)</td>
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<td>Power Consumption</td>
<td>Mean 370Wh</td>
<td>Max. 1800W/h</td>
<td>Max. 1500W/h</td>
<td>Max. 1500W/h</td>
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<td>AC90~265V, 50/60Hz</td>
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<tr>
<td>Body Material</td>
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<td>Steel with ESD safe paint</td>
<td>Steel with ESD safe paint</td>
<td>Steel with ESD safe paint</td>
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<tr>
<td>Stainless Steel Shelves</td>
<td>5pcs</td>
<td>5pcs</td>
<td>5pcs</td>
<td>2pcs</td>
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</table>
TOTECH SUPER DRY
Stainless Steel Cabinet

Made of Stainless Steel
Cabinet body made of 1.5 mm thick stainless steel SUS304, most suitable for ultra low humidity storage in clean rooms

ESD Safe
5 methods for 100% perfect EPA!
1) Stainless steel body
2) Stainless steel shelves
3) Conductive windows
4) 1MΩ earth resistance wire
5) Earth point for wrist strap & Wrist strap

SUPER DRY
Can enable your best achievement in production and development, with highest security and safety.

Digital Panel
Simple and easy to set humidity
Temperature can also be indicated

Humidity Sensor
High end, high quality sensor to transmit Data to digital panel (Calibratable)

Engine Developed by Toyo Living

Powerful Dry Unit
High Reliability and Stability humidity, quick recovery system works.

NEW! Stainless Steel Cabinet 2%RH (1%RH available)

Only Super Dry by original TOTECH can supply fully satisfied ESD FREE cabinets, 100% adjustment to IEC-61340-5-1.

Application example
1) IC packages
2) Silicon Wafer
3) Liquid Crystal Glass (LCG) Board
4) PCBs
5) Ceramics
6) Optical Fiber, CCD etc

Model | SUS-1106-02 | SUS-702-02 | SUS-480-02 |
--- | --- | --- | --- |
External WxHxD (mm) | 1200x1840x670 | 620x1840x780 | 600x1225x760 |
Internal WxHxD (mm) | 1190x1560x620 | 610x1560x730 | 589x1035x620 |
Capacity (L) | 1160 | 680 | 388 |
Rated Voltage | AC220V, 50/60Hz (Other voltage is optional) | | |
Material | Stainless steel body and shelves, conductive doors | | |
Stainless Steel Shelves | 5 pcs | 5 pcs | 3 pcs |
Superior Recovery after Frequent Door Openings

01 series are equipped with 2 powerful patented dry units to reach ultra-low humidity min. 1%RH which meets IPC/JEDEC J-STD-033C demands, and provide the most effective solution to:

1. Micro-cracks in Integrated Circuits like QFP and BGA
2. Delaminations in Printed Circuit Boards and Rework Devices
3. Defects Caused by Heating in Lead-free SMD Devices

HSD-1106-01  HSD-1104-01  HSD-702-01  HSD-302-01  HSD-502-01  HSD-252-01

<table>
<thead>
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<th>HSD-1104-01</th>
<th>HSD-702-01</th>
<th>HSD-302-01</th>
<th>HSD-502-01</th>
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<td>1200x1840x670</td>
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<td>880x900x380</td>
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<tr>
<td>Internal WxHxD (mm)</td>
<td>1190x1560x620</td>
<td>610x1560x730</td>
<td>490x1160x590</td>
<td>870x830x690</td>
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<tr>
<td>Capacity (L)</td>
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<td>680</td>
<td>340</td>
<td>510</td>
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<td>117</td>
<td>67</td>
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<td>56W/h=40.4kW/month</td>
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<td>Rated Voltage</td>
<td>AC220V, 50/60Hz (Other voltage is optional)</td>
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<td></td>
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<tr>
<td>Material</td>
<td>Steel Body with ESD safe paint, and Conductive Doors</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Stainless Steel Shelves</td>
<td>5 pcs</td>
<td>7 pcs</td>
<td>3 pcs</td>
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</table>

Storage of components removed from MBB
Storage of leftover components after mounting
Safe storage (for sudden requirements) anytime
OK after inspection
Assembly process

Mass production factory
Warehouse
Components removed from MBB
Mounting process
NG after inspection
Rework process

IC package in moisture barrier bag

Storage of components removed from MBB

High mix, Low volume
Warehouse
Components removed from MBB
Mounting process
NG after inspection
Assembly process
Rework process

Storage of leftover components after mounting
Safe storage (for sudden requirements) anytime

Storage of boards for reworking (defective soldering or mounting)
OK after inspection
Assembly process
Rework process

Storage of boards for reworking (defective soldering or mounting)

Storage of components removed from MBB

Storage of boards for reworking (defective soldering or mounting)
OK after inspection
Assembly process
Rework process
Medium to Long Term Constant Ultra-Low Humidity Storage

02 series are equipped with 1 patented dry unit to constantly maintain the ultra-low humidity to min. 2%RH, to meet IPC/JEDEC J-STD-033C demands, and are ideal for the moisture proof and anti-oxidation storage of the following items.

1. Storage of all kinds of Interacted Circuits and Silicon Wafers etc
2. Storage of PDP Inspection Equipments and Liquid Crystal Cleaning Equipments etc
3. Storage of Aerospace related instruments and Tools
4. Storage of Optical Equipments and Digital Media
5. Storage of Chemicals, Medicine, Cultural Assets, etc

### Specifications

<table>
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<tr>
<th>Model</th>
<th>SD-1106-02</th>
<th>SD-1104-02</th>
<th>SD-702-02</th>
<th>SD-302-02</th>
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<td>1200x1840x670</td>
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<td>Capacity (L)</td>
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<td>680</td>
<td>340</td>
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<td>110</td>
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<td>Power Consumption</td>
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<td>28W/h</td>
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<tr>
<td>Material</td>
<td>Steel body with ESD safe painting and conductive doors</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Shelves</td>
<td>Stainless steel 5pcs</td>
<td>Stainless 7pcs</td>
<td>Stainless steel 3pcs</td>
<td></td>
<td></td>
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</table>

### Applications in Production Process

1) IC packages
2) Silicon Wafer
3) Liquid Crystal Glass (LCG) Board
4) PCBs
5) Ceramics
6) Optical Fiber, CCD etc
Superior Features of 01 and 02 Series

**Engine Developed by Toyo Living**

**U-2001F Type Dry Unit**

**High Reliability and Stability**
Till today more than 55,000 Units have been supplied and Used in the world, especially in Japan where strict regulations Exist. Low humidity, Quick recovery system works.

**ESD Safe**

6 methods for 100% perfect EPA!
① Conductive coating
② Conductive windows
③ 1MΩ earth resistance wire
④ High end stainless steel shelves
⑤ Earth point for wrist strap
⑥ Wrist strap

**SUPER DRY**

Can enable your best achievement in production and development, with highest security and safety.

**Digital Panel**
Simple and easy to set humidity Temperature can also be indicated

**Humidity Sensor**
High end, high quality sensor to transmit Data to digital panel (Calibratable)

Only Super Dry by original TOTECH can supply fully Satisfied ESD FREE cabinets, 100% adjustment to IEC-61340-5-1.

**Fast dehumidification**

*<Suitable for production process>*

When a door is opened and closed, the fan inside the dry unit operates automatically about 20mins <automatic operation>. This provides faster dehumidification than the previous models and similar products. This new and original feature is indispensable for solving problems of moisture proofing and dehumidification between production line where doors are frequently opened and shut, and in reducing the humidity under highly humid external environment conditions.

**Keeping constant humidity**

At one time it was said that, due to the dehumidifier problems, maintaining constant humidity was not just very difficult but impossible, with the 01 and 02 series, improvements in both the software and hardware aspects have made it possible to cope with storage of special devices which you'd better store in the 20~30%RH range.
Super Dry Newly Designed
Constantly Dehumidifying, reaching min. <3%RH
LCD Digital Hygrometer
Cost Low
Meet the requirement of
IPC/JEDEC J-STD-033C

Feeder Series (ESD Safe)
Perfect Ultra-Low Humidity Storage for Tape Feeder at 1%RH
Deep Design Handles Tape Feeders

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<th>Model</th>
<th>CSD-1106-03</th>
<th>CSD-1104-03</th>
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<td>120x184x67</td>
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<td>61x156x73</td>
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<td>1160</td>
<td>680</td>
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<tr>
<td>Voltage</td>
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<td>Material</td>
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<tr>
<td>Shelves</td>
<td>5pcs</td>
<td>7pcs</td>
<td>3pcs</td>
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**Feeder Series (ESD Safe)**

**Tape feeder can be stored directly inside dry cabinet**

**Most suitable for trolleys with feeder to put inside cabinet directly, cabinet loading capacity 200kgs.**

**Humidity control 1%RH by digital control panel.**
Two trolleys can be stored inside.

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<th>Model</th>
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<th>SDF-1402-01</th>
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<td>Internal Dimension</td>
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<tr>
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<td>Material</td>
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</table>
**Super Dry Newly Designed**

Best choice for factories, labs and universities

Constantly Dehumidifying, 20%~50%RH

LCD Digital Hygrometer

Cost Low

ESD Safe Function Optional

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**Model**

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</tr>
<tr>
<td>Shelves</td>
<td>5pcs</td>
<td>7pcs</td>
<td>3pcs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Pass Box Design (Ask for details)**

Totech Super Dry is available to be made to pass box design.

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**SDC Series ESD Safe**

HEPA Clean Cabinet

With 6 doors is available

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**SDC-1204-01**
**Most Economic Choice for Long Term Storage**

<table>
<thead>
<tr>
<th>Model</th>
<th>ASD-1006</th>
<th>ED-508</th>
<th>ED-268</th>
<th>ED-138</th>
</tr>
</thead>
<tbody>
<tr>
<td>External (WxHxD) cm</td>
<td>120x184x69</td>
<td>88x90x76</td>
<td>88x90x40</td>
<td>44x84x29</td>
</tr>
<tr>
<td>Internal (WxHxD) cm</td>
<td>119x156x62</td>
<td>87x84x70</td>
<td>87x84x34</td>
<td>42x84x29</td>
</tr>
<tr>
<td>Capacity (L)</td>
<td>1160</td>
<td>510</td>
<td>252</td>
<td>121</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>155</td>
<td>58</td>
<td>33</td>
<td>21</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>12.6W/h</td>
<td>6.3W/h</td>
<td>1.9W/h</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>AC220V, 50/60Hz</td>
<td>(Other voltage is available)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Steel body with gray painting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel Shelves</td>
<td>5 pcs</td>
<td>3 pcs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Auto Dry Unloaded Testing**

- Totech Auto Dry flexible setting 20%~50%RH, fit for long term storage.

1. Storage of micro-films and positive/negative films
2. Storage of antiques and ancient documents
3. Storage of electronic devices, PCB and IC packages before removing from moisture barrier bag
4. Storage of powdered medicines and water solution
5. Storage of micro-lens and microscope lens etc

**Storage of Metal Objects and Tools**

**Recommended Humidity Level:** Lower than 40%

Rust and error on the internal precision instrument can be prevented by storing commercial measuring instruments and other precision equipment, special tools, weapons, home equipment with metal parts in a low humidity.

**Seeds**

**Recommended Humidity Level:** 30~50%

**Desirable Humidity Level:** Lower than 10%

There is a strong relationship between seed germination with the moisture level of seed storage environment. A low humidity environment and prevention against water absorption will lead to high germination and growth rate.

**Powders**

**Recommended Humidity Level:** Lower than 40%

Any powder material for scientific, industrial, medial or household use can be protected from moisture absorption and chemical reaction by storing in a low humidity environment.

**Camera Lenses**

**Recommended Humidity Level:** 50%

Mold can be prevented on camera lenses, microscopes, binoculars and photography equipment by storing in an Auto Dry cabinet.

**Stamps, Photos, Albums**

**Recommended Humidity Level:** 30~50%RH

Prevent discoloration and yellowing. Humidity is one of the main causes of yellowing and discoloration of stamps and photos. They should be stored in a humidity level of 30~50%, not too high or too low.

**Antiques, Arts**

**Recommended Humidity Level:** 30~55%RH

The hot summer and dry winter environment must be overcome to maintain the value of the items.
Developed out of a robust acrylic material, the Super Dry Acrylic Series is engineered to achieve 3% RH control. Equipped with an N²-Set, the series can be used to store any stock commonly used in laboratories or electronics in a nitrogen atmosphere. Transparent acrylic cabinet serves clear observation of items stored inside, such as powder, chemicals, antiques, and so on.

**ESDA Series**  
ESD safe, 3%RH

**SDA Series**  
20%RH

**Camera cabinet 25~55%RH**

---

<table>
<thead>
<tr>
<th>Model</th>
<th>ESDA-800S</th>
<th>ESDA-400S</th>
<th>ESDA-200S</th>
</tr>
</thead>
<tbody>
<tr>
<td>External WxHxD(mm)</td>
<td>1152x1692x517</td>
<td>574x1692x606</td>
<td>574x768x549</td>
</tr>
<tr>
<td>Internal WxHxD(mm)</td>
<td>1140x1470x487</td>
<td>561x1470x487</td>
<td>559x737x487</td>
</tr>
<tr>
<td>Capacity</td>
<td>820 L</td>
<td>400 L</td>
<td>220 L</td>
</tr>
<tr>
<td>Weight</td>
<td>85 kg</td>
<td>53 kg</td>
<td>20 kg</td>
</tr>
<tr>
<td>Stainless Steel Shelves</td>
<td>10pcs, loading 20kg/shelf</td>
<td>5pcs, loading 20kg/shelf</td>
<td>2pcs, loading 20kg/shelf</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>SDA-800S</th>
<th>SDA-400S</th>
<th>SDA-200S</th>
</tr>
</thead>
<tbody>
<tr>
<td>External WxHxD(mm)</td>
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<td>5pcs</td>
<td>2pcs</td>
</tr>
</tbody>
</table>

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- Clear observation of items stored inside
- Precise Hygrometer
- Aluminium frame and Acrylic body
- Stainless steel shelves ESD safe
- Light, easy to remove
- Transparent design, Easy for observation
- N2 set pre-installed, dry unit 3% or 20%
- ESD safe, 3%RH
- 20%RH

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Automatic Ultra-low Humidity  
Acrylic Nitrogen Cabinet

Pioneer of Dry Cabinet  
Japanese Patent

Fast dehumidification

ESDA Series: ESD safe, 3%RH

SDA Series: 20%RH

Camera cabinet 25~55%RH

Super Case
- Set humidity value precisely, display humidity and temperature value
- Set the humidity and door open alarm
- Set the nitrogen purging time
- Lock the panel to avoid unintended changes of setting
- Sensor calibration

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra shelf</td>
<td>Greatly increase the usable space inside Super Dry</td>
</tr>
<tr>
<td>Independent Nitrogen purge system (Model TN2-02)</td>
<td>Effective usage of N₂ combined with Super Dry, help to accelerate the recovery time and oxidation prevention. Set the buttons on N₂ purge system itself</td>
</tr>
<tr>
<td>SMD single rack (stainless steel)</td>
<td>Suitable for storage of components on tape and reel, can pull out on rail</td>
</tr>
<tr>
<td>SMD double rack (stainless steel)</td>
<td>Suitable for storage of components on tape and reel, can pull out on rail</td>
</tr>
<tr>
<td>Nitrogen valve (Model: HN2-01)</td>
<td>Simple N₂ flow meter 0-25L/min adjustable</td>
</tr>
<tr>
<td>Nitrogen auto purge system (Model AN2-03)</td>
<td>Effective usage of N₂ combined with Super Dry, help to accelerate the recovery time and oxidation prevention. Set on digital control panel</td>
</tr>
<tr>
<td>Humidity/ Door open alarm buzzer</td>
<td>Alarm buzzer sounds when its internal humidity/door open time exceeds set value</td>
</tr>
<tr>
<td>Humidity alarm light</td>
<td>Alarm light flashes and sounds when its internal humidity exceeds set value</td>
</tr>
<tr>
<td>Nitrogen valve</td>
<td></td>
</tr>
<tr>
<td>Data logger with software (model MR6662)</td>
<td>Data logging humidity and temperature, can read and output data by software with a PC</td>
</tr>
<tr>
<td>Network system for humidity and temperature (including module and software)</td>
<td>Far distance humidity and temperature monitoring</td>
</tr>
<tr>
<td>Castors (4 pcs)</td>
<td>To move the cabinet on floor easily</td>
</tr>
</tbody>
</table>

*Model No. and dimensions are subject to change.