Totech (Toyo Living) is the creator of world’s first Automatic Drying System invented in 1974.

Super Dry cabinets use the highly-quality and highly reliable Toyo Living engine and has been sold over 700,000 units and used in over 10,000 companies around the world. We also supply various kinds of custom-build cabinet to best suit our client’s need.

Features

❖ Modular design: Totech Super Dry is modularly designed dry cabinet. The main modules include dry units, control box, sensor, shelves and castors. All of the modules can be replaced easily. Totech dry cabinet can be used as long as the cabinet structure is in good condition. Most of our customers can use the Totech dry cabinets for more than 10 years without any problem.

❖ Dry unit: 2%RH.

❖ ESD safe design: Cabinet is with ESD metal painted steel body (10⁶ Ohm/sq), dissipative glass windows (in and outside 10⁶ Ohm/sq), stainless steel shelves and ground wire, well comply with IEC 61340-5-1.

❖ Convenient operation: Totech Super Dry cabinet is with digital control panel, can control the humidity precisely from 2% to 50%RH, by adjusting ±0.1%RH. Humidity, temperature and alarm functions are shown and can be adjusted by digital control panel. Key lock function on the digital control panel prevents unintended changes of setting. Sensor calibration function is also available with digital panel.

❖ Maintenance free design: Totech dry cabinet works by dry units. An interlocked fan causes the air to circulate through the dry unit, while passing through the dry unit, moisture in the air is absorbed by the zeolite desicant. During periodic regeneration of the zeolite desicant by heating, the absorbed humidity is evaporated and exhausted through the external shutters of the dry unit. The process is physical, and no extra maintenance at all.

❖ Lockable doors: Doors can be locked with a key.

Applications

SUPER DRY maintains preset internal humidity levels from 2~50%RH and is ideal for moisture-proof and anti-oxidation storage applications, offering protection from corrosion, mold and deterioration for such items as:

❖ all kinds of Integrated Circuits (IC), like Monolithic, BGA, QFP; PLCC, Bipolar etc.

❖ Silicon Wafers.

❖ Aerospace related Instruments and Tools.

❖ Optical Equipment and Machine Tools.

❖ Watches.

❖ PDP Inspection Equipment, Liquid Crystal Cleaning Equipment, LCD’s, TAC’s etc.

❖ LED’s and LD’s.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity Range</td>
<td>2%RH</td>
</tr>
<tr>
<td>Sensor precision</td>
<td>±2%RH, ±1°C</td>
</tr>
<tr>
<td>External dimensions</td>
<td>(W x H x D) 1200 x 1840 x 670 mm</td>
</tr>
<tr>
<td>Internal dimensions</td>
<td>(W x H x D) 1190 x 1560 x 620 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>155 kg</td>
</tr>
<tr>
<td>Capacity</td>
<td>1160 L</td>
</tr>
<tr>
<td>Shelves (W x D)</td>
<td>5 pcs, 1157 x 490 mm, adjustable (stainless steel)</td>
</tr>
<tr>
<td>Max weight on shelf</td>
<td>100 kg</td>
</tr>
<tr>
<td>Structure</td>
<td>1.2mm Steel, ESD coated</td>
</tr>
<tr>
<td>Cabinet color</td>
<td>Gray</td>
</tr>
<tr>
<td>Door</td>
<td>4 pcs, with handles, airtight magnetic sealers and ESD safe window</td>
</tr>
<tr>
<td>ESD grounding wire</td>
<td>1MΩ</td>
</tr>
<tr>
<td>Voltage</td>
<td>AC220V, 50/60Hz (Other voltage optional)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Ave. 28W/h</td>
</tr>
<tr>
<td>Castors</td>
<td>4 pcs, 2 of them with brakes</td>
</tr>
</tbody>
</table>
Model: SD-1104-02  2%RH, 1160L

Drawing of SD-1104-02

- Customized models with different dimensions are AVAILABLE.
- The max.external dimensions can be made into W1700mm, D960mm, H2000mm.

Unloaded Test

- Condition: 2014.11.06 20:00 ~ 2014.11.08 08:00
- Instrument: CHINO Data logger, Model: MR6662. Accuracy rating: ± 0.5°C, ±3%RH.
**Model: SD-1104-02**  
2%RH, 1160L

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**Digital Control Panel**

- 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

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**Available options**

- **Extra shelf**
  - Greatly increase the usable space inside Super Dry

- **SMD single rack (stainless steel)**
  - Suitable for storage of components on tape and reel, can pull out on rail

- **SMD double rack (stainless steel)**
  - Suitable for storage of components on tape and reel, can pull out on rail

- **Humidity/Door open alarm buzzer**

- **Humidity alarm light**
  - Alarm light flashes and sounds when its internal humidity exceeds set value

- **Independent Nitrogen purge system (Model TN2-02)**
  - 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

- **Nitrogen valve (Model: HN2-01)**
  - Simple N₂ flow meter 0-25L/min adjustable

- **Nitrogen auto purge system (Model AN2-03)**
  - Effective usage of N₂ combined with Super Dry, help to accelerate the recovery time and oxidation prevention. Set on digital control panel

- **Adjustable legs**
  - Available for effective stabilization

- **Wrist strap connection**
  - Allows grounding while handling ESD sensitive materials

- **Data logger with software (model MR6662)**
  - Data logging humidity and temperature, can read and output data by software with a PC

- **Castors (4 pcs)**
  - To move the cabinet on floor easily

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**Totech Dry Cabinet**

**Designed by Japan**

**Since 1974**