

Model: HSD-302-01

1%RH, 340L



**HSD-302-01** has an outstanding performance for drying moisture sensitive components and PCBs as a result of a high performance drying unit. Humidity can be controlled precisely by digital panel to reach the lowest 1%RH. It is specially designed for moisture sensitive SMD packages to comply with IPC/JEDEC J-STD-033C. Two powerful dry units installed, making it very suitable for operation with frequent approach.

**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.
- ❖ **Humidity control:** 1%RH.
- ❖ **ESD safe design:** Cabinet is with ESD metal painted steel body ( $10^6$  Ohm/sq), ESD safe 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 1% to 50%RH, by adjusting  $\pm 0.1\%$  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 desiccant. During periodic regenerating of the zeolite desiccant 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:** Every door can be locked separately with a key.
- ❖ **Humidity alarm (Optional):** Humidity alarm buzzer / humidity alarm light will sound or flash if the humidity exceeds set value.
- ❖ **Data monitoring (Optional):** Monitor and record data of humidity and temperature of dry cabinets in different sites of the factory in 24hrs, and data can be transferred to a PC by RJ45 connector for consulting and printing. Alarm will be sent automatically when the data exceeds the normal level.

#### Applications

**SUPER DRY** maintains preset internal humidity levels from 1~50%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, LCDs, TACs etc.
- ❖ LEDs and LDs.

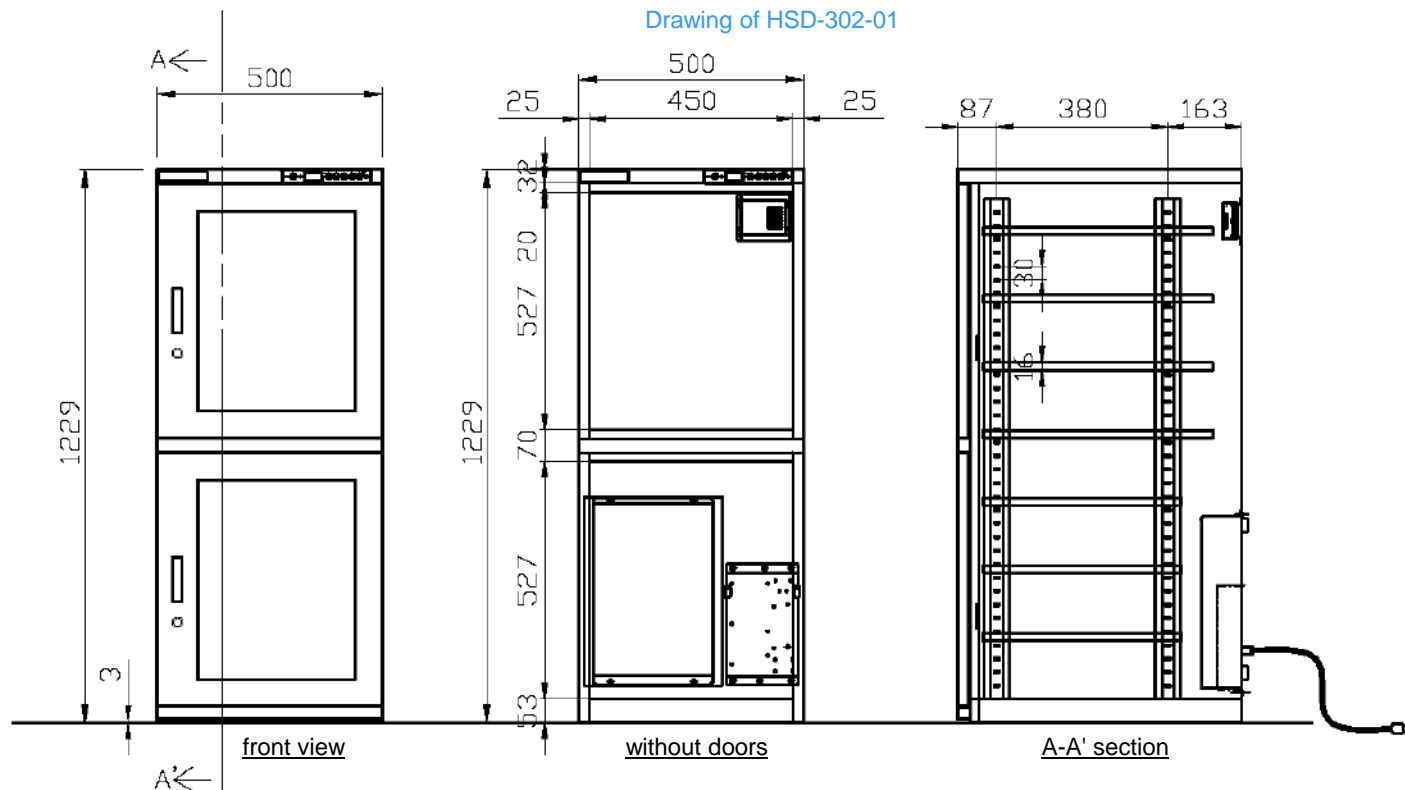
#### Specifications

Humidity control	1%RH
Sensor precision	$\pm 2\%$ RH, $\pm 1^\circ$ C
External dimensions	(W x H x D) 500 x 1230 x 640 mm
Internal dimensions	(W x H x D) 490 x 1160 x 590 mm
Weight	67 kg
Capacity	340 L
Shelves (W x D)	7 pcs, 468x510, ESD safe steel
Max weight on shelf	50 kg
Structure	1.2mm steel, ESD safe
Cabinet color	Gray
Door	2 pcs, with handles, airtight magnetic sealers and glass.
ESD grounding wire	1M $\Omega$
Voltage	AC220V, 50/60Hz (AC110V optional)
Power consumption	Ave. 56W/h
Software (Option)	To read and draw the curve of humidity and temperature.

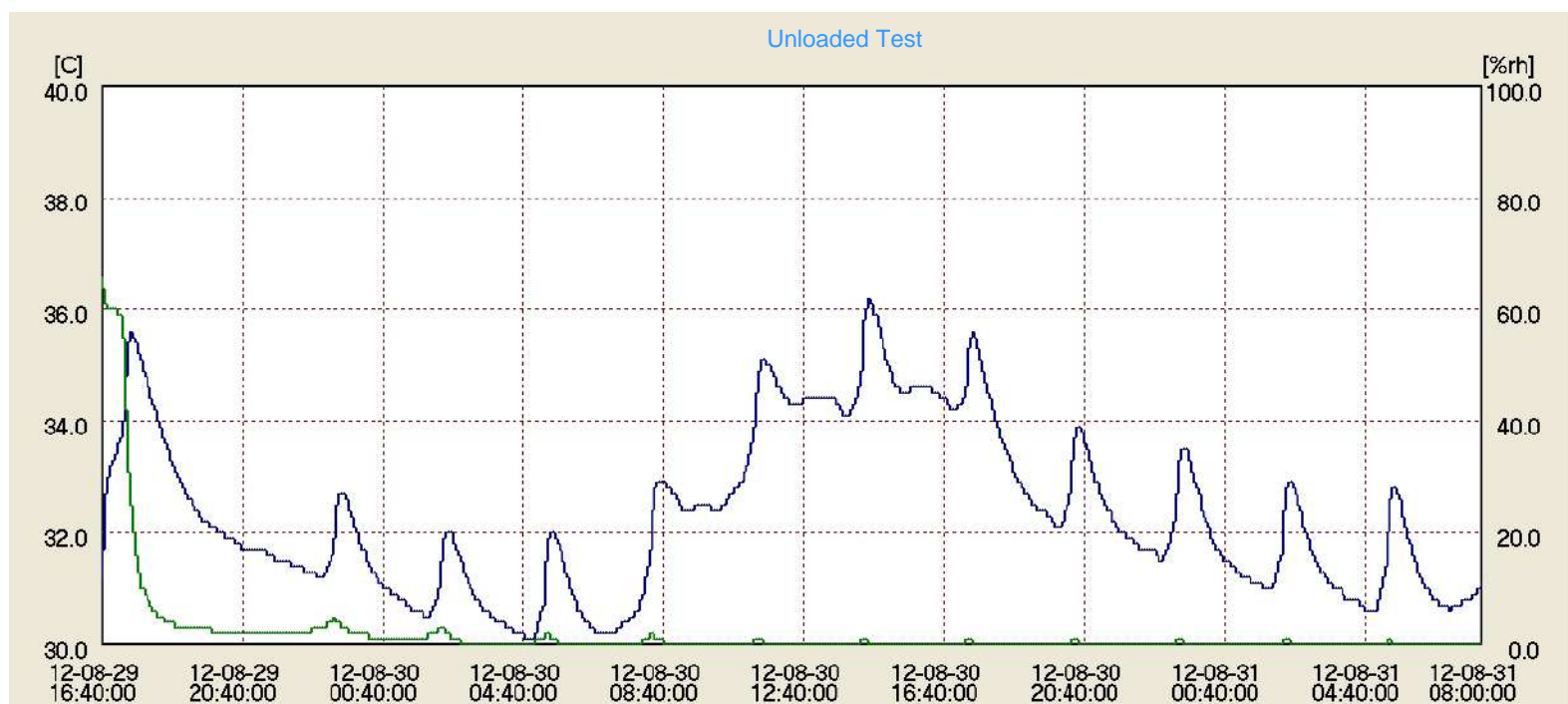
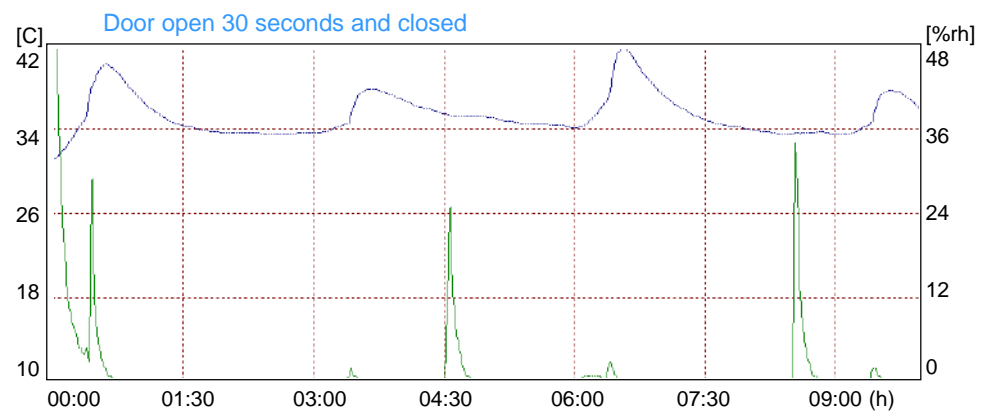
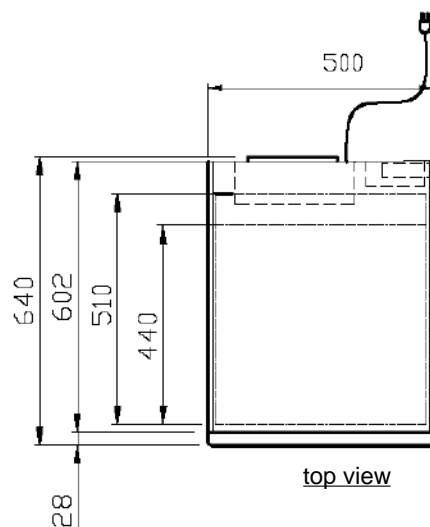
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Drawing of HSD-302-01



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



- ❖ Condition: 2014.11.06 20:00 ~ 2014.11.08 08:00
- ❖ Instrument: CHINO Data logger, Model: MR6662. Accuracy rating:  $\pm 0.5^{\circ}\text{C}$ ,  $\pm 3\%\text{RH}$ .



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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



#### 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

Alarm buzzer sounds when its internal humidity/ door open time exceeds set value



❖ 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 N<sub>2</sub> combined with Super Dry, help to accelerate the recovery time and oxidation prevention. Set the buttons on N<sub>2</sub> purge system itself



❖ Nitrogen valve (Model: HN2-01)

Simple N<sub>2</sub> flow meter 0-25L/min adjustable



❖ Nitrogen auto purge system (Model AN2-03)

Effective usage of N<sub>2</sub> 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

testo 174H (单机+底座)套装



❖ Data logger with software (model 174H)

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