T O T E C H

Model: SDU-252-00   0.5%RH, 252L

Totech SDU series is installed newly made dry units U-2005F by Toyo Living, the first developer of electronic dry cabinets in Japan since 1974. The outstanding feature of SDU series is fast recovery after door-open-close, with the everlasting advantages of constant ultra low humidity, high reliability and low power consumption. And it is widely used in the fields of electronics, optics, chemicals, labs, especially for the occasion with frequent door opening. It keeps min. 0.5%RH and suit for moisture sensitive components with all MSLs.

Features
❖ Dry units: 0.5%RH.
❖ Fast recovery: Humidity recovers to <5%RH within 15 minutes after door-open-close.

❖ Precise control: Humidity is set by digital control panel. The digital panel also displays humidity and temperature value. Key Lock function on the digital control panel prevents unintended changes of setting. Sensor calibration function is also available with digital panel.

❖ESD safe: Cabinet body is made of 1.2mm ESD painted steel body and shelves, ESD safe PC windows, and ground wire, well comply with IEC 61340-5-1.

❖Alarm setting: Humidity and door alarm buzzer is installed, if the humidity or the door opening time exceeds set value, alarm buzzer will sound.

❖Maintenance free: 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 replacement or extra maintenance at all.

❖Lockable doors: Every door can be locked separately with a key.

❖Energy saving: Mean power consumption 58W/h, 1/3 of the other brands.

Applications
SUPER DRY maintains preset internal humidity levels 0.5%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.
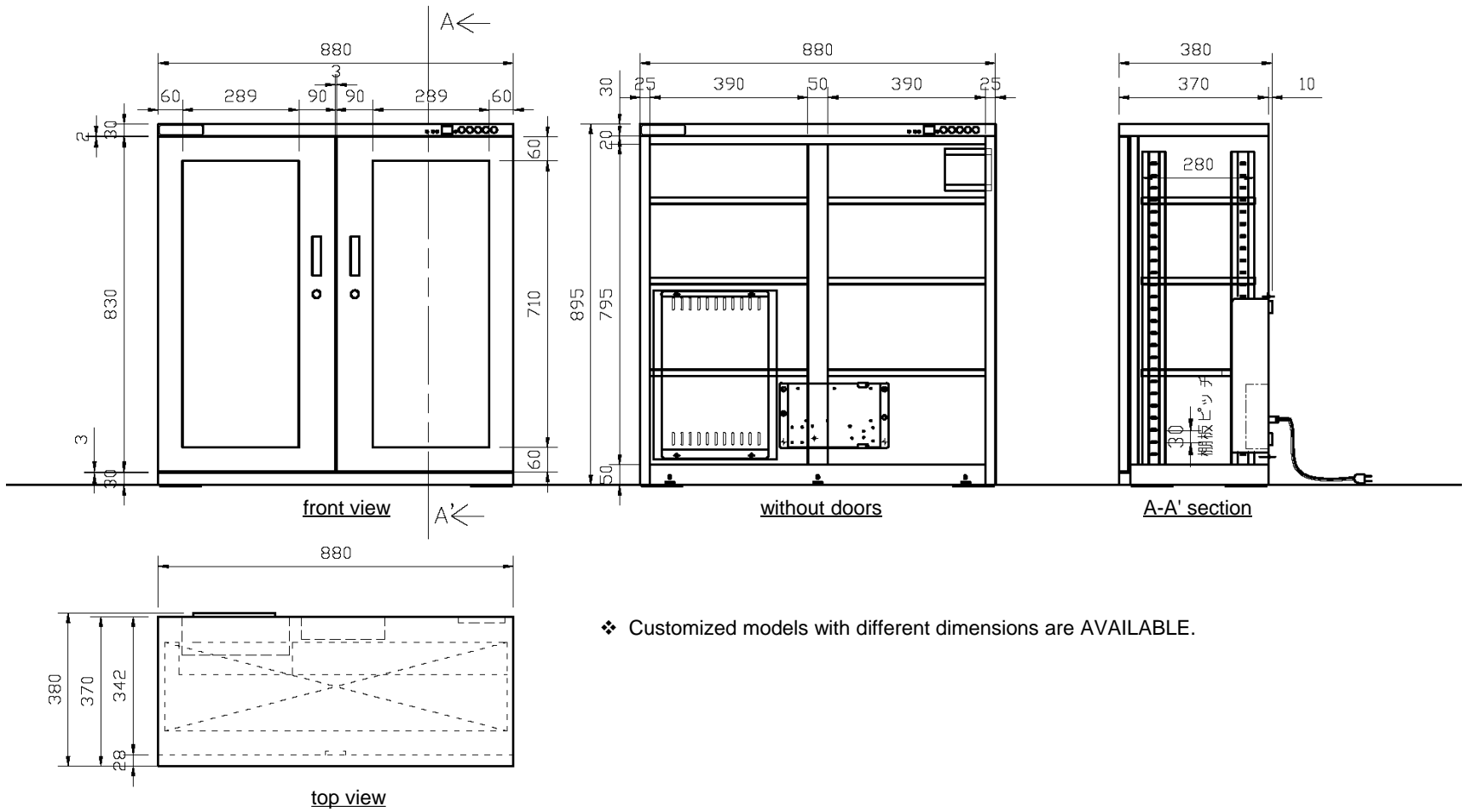❖ PDP Inspection Equipment, Liquid Crystal Cleaning Equipment, LCD's, TAC's etc.
❖ LED's and LD's.

SDU-252-00 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 0.5%RH. It is specially designed for moisture sensitive SMD packages to comply with IPC/JEDEC J-STD-033D.

Specifications

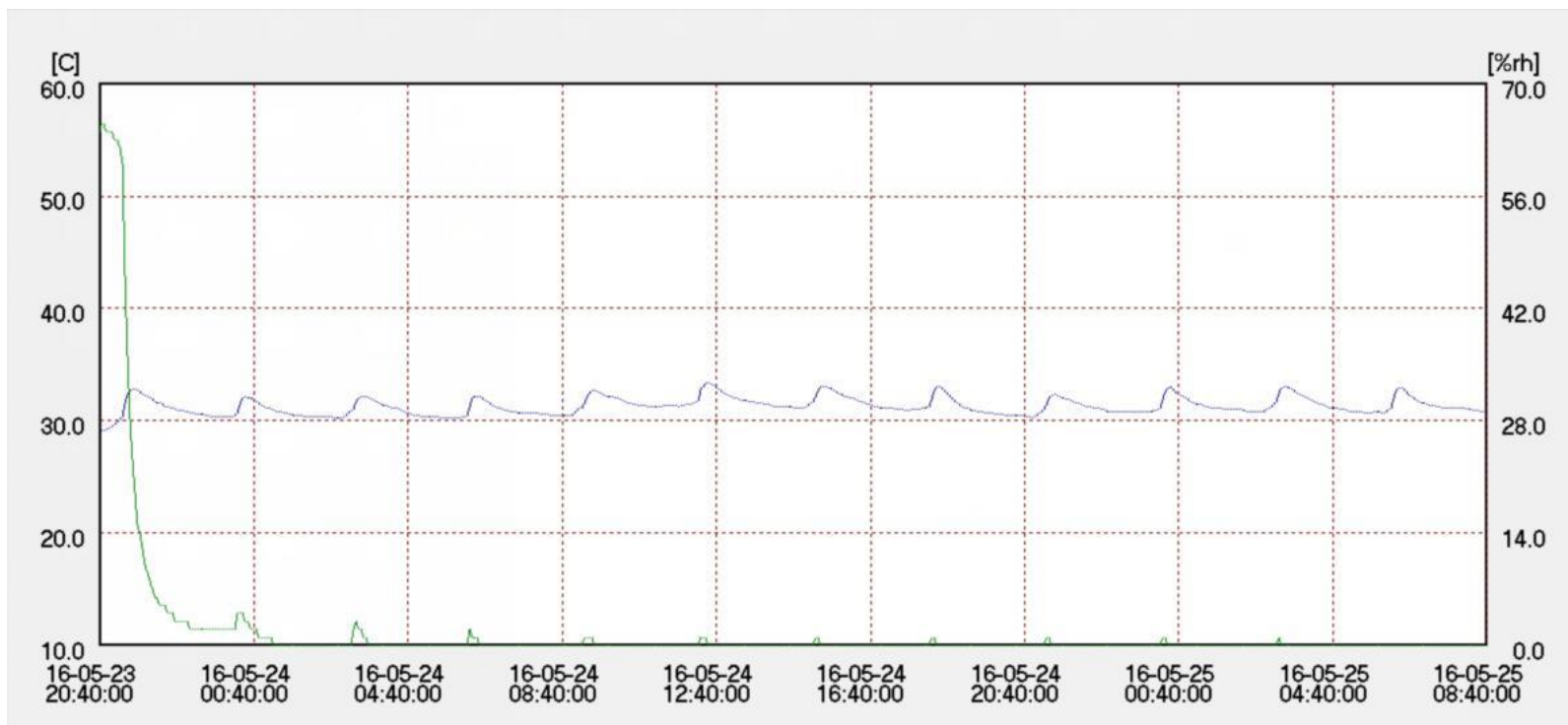| Humidity Control	0.5%RH
Sensor precision	±2%RH, +/-1°C
External dimensions	(W x H x D) 880 x 900 x 380 mm
Internal dimensions	(W x H x D) 870 x 830 x 330 mm
Weight	46 kg
Capacity	252 L
Shelves	3 pcs, adjustable ESD safe steel
Max weight on shelf	50 kg
Structure	1.2mm Steel
Cabinet color	Gray
Door	2 pcs, with handles, airtight magnetic sealers
ESD grounding wire	1MΩ
Voltage	AC220V, 50/60Hz (AC110V optional)
Power consumption	Ave. 56W/h

TOTECH

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front view

A-A' section

without doors

top view

❖ Customized models with different dimensions are AVAILABLE.

Unloaded test

❖ Condition: 2016.05.23 20:40 ~ 2016.05.25 08:40
❖ Instrument: CHINO Data logger, Model: MR6662. Accuracy rating: ± 0.5° C, ±3%RH.

IPC CE

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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	❖SMD single rack (stainless steel)	❖SMD double rack (stainless steel)	❖Humidity/ Door open alarm buzzer	❖Humidity alarm light
Greatly increase the usable space inside Super Dry	Suitable for storage of components on tape and reel, can pull out on rail	Suitable for storage of components on tape and reel, can pull out on rail	Alarm buzzer sounds when its internal humidity/ door open time exceeds set value	Alarm light flashes and sounds when its internal humidity exceeds set value
❖Independent Nitrogen purge system (Model TN2-02)	❖Nitrogen valve (Model: HN2-01)	❖Castors(4 pcs)	❖Adjustable legs	❖Wrist strap connection
Effective usage of N_2 combined with Super Dry, help to accelerate the recovery time and oxidation prevention. Set the buttons on N_2 purge system itself	Simple N_2 flow meter 0-25L/min adjustable	To move the cabinet on floor easily	Available for effective stabilization	Allows grounding while handling ESD sensitive materials

❖Data logger with software (model Testo 174H)

Data logging humidity and temperature, can read and output data by software with a PC