Most suitable for SMT

Totech Dry Cabinet
Designed by Japan
Since 1974

Model: FSD-1106-01   0.5%RH, 1160L

Totech FSD series is installed newly developed dry units for ultra low humidity and 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, especially for SMT production line and warehouse.

Features

❖ Humidity control: 0.5%RH.

❖ Fast recovery: Humidity recovers to <5%RH within 6 minutes after door-open-close.

❖ Precise control: Humidity is set by digital control panel by +/-0.1%RH. 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 coated steel body, ESD safe steel shelves and 1MΩ ground wire, well comply with IEC 61340-5-1.

❖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.

❖Standard: The storage efficacy satisfies and exceeds the IPC/JEDECJ-STD-033D standard.

Applications

SUPER DRY maintains preset internal humidity levels 0.5%RH and is ideal for moisture-proof and anti-oxidation storage applications, offering protection for such items as:

❖ All kinds of Integrated Circuits (IC), like Monolithic, BGA, QFP; PLCC, Bipolar etc.
❖ Silicon Wafers.
❖ Aerospace related Instruments and Tools.
❖ PDP Inspection Equipment, Liquid Crystal Cleaning Equipment, LCD's, TAC's etc.
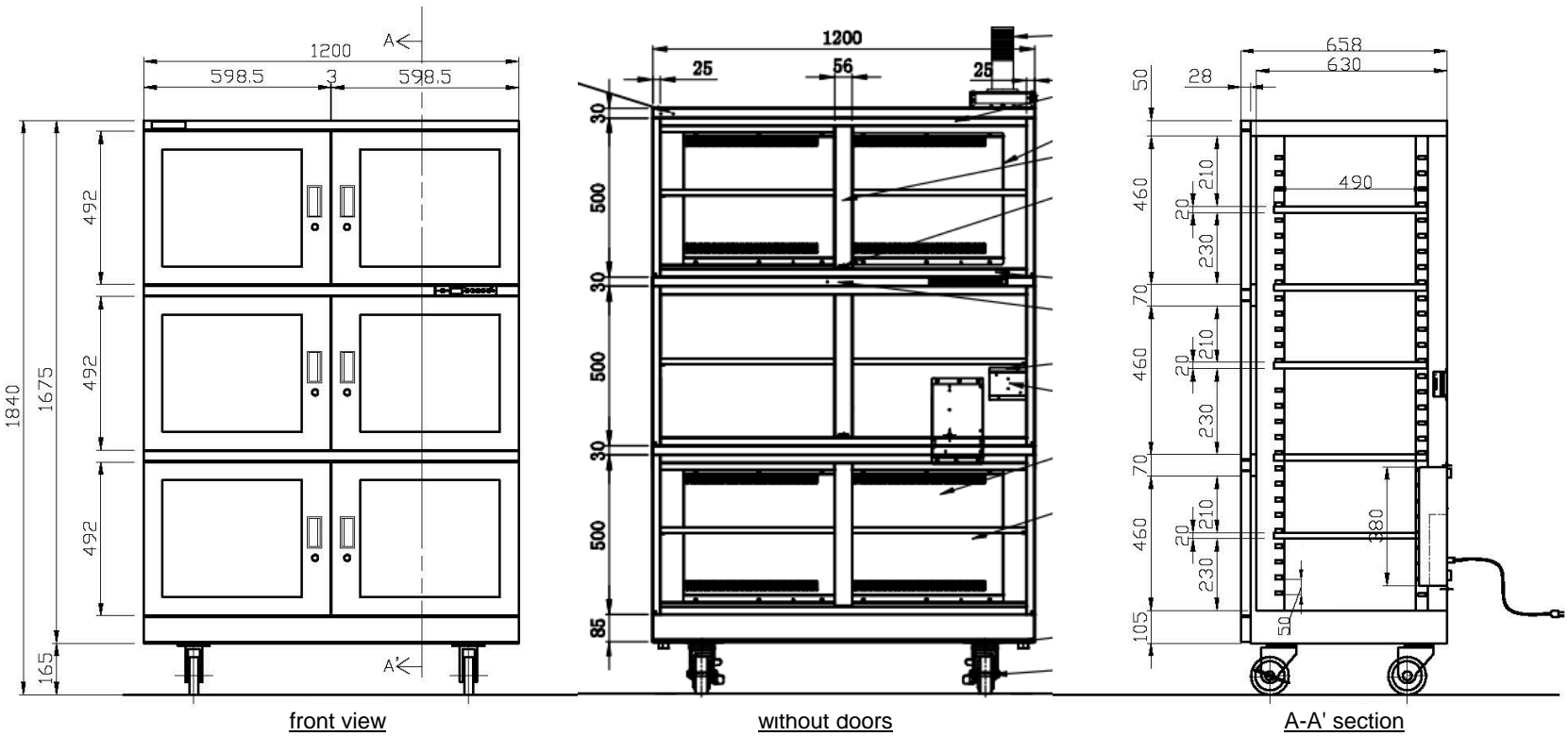❖ LED's and LD's.

FSD-1106-01 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-033D, very suitable for operation with frequent approach.
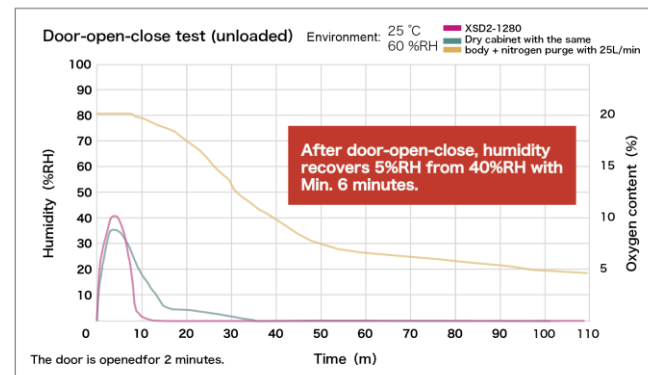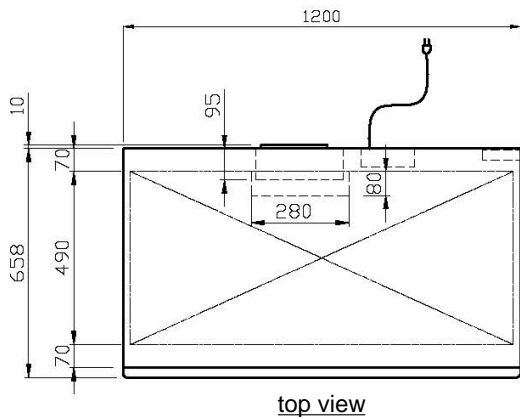
Specifications

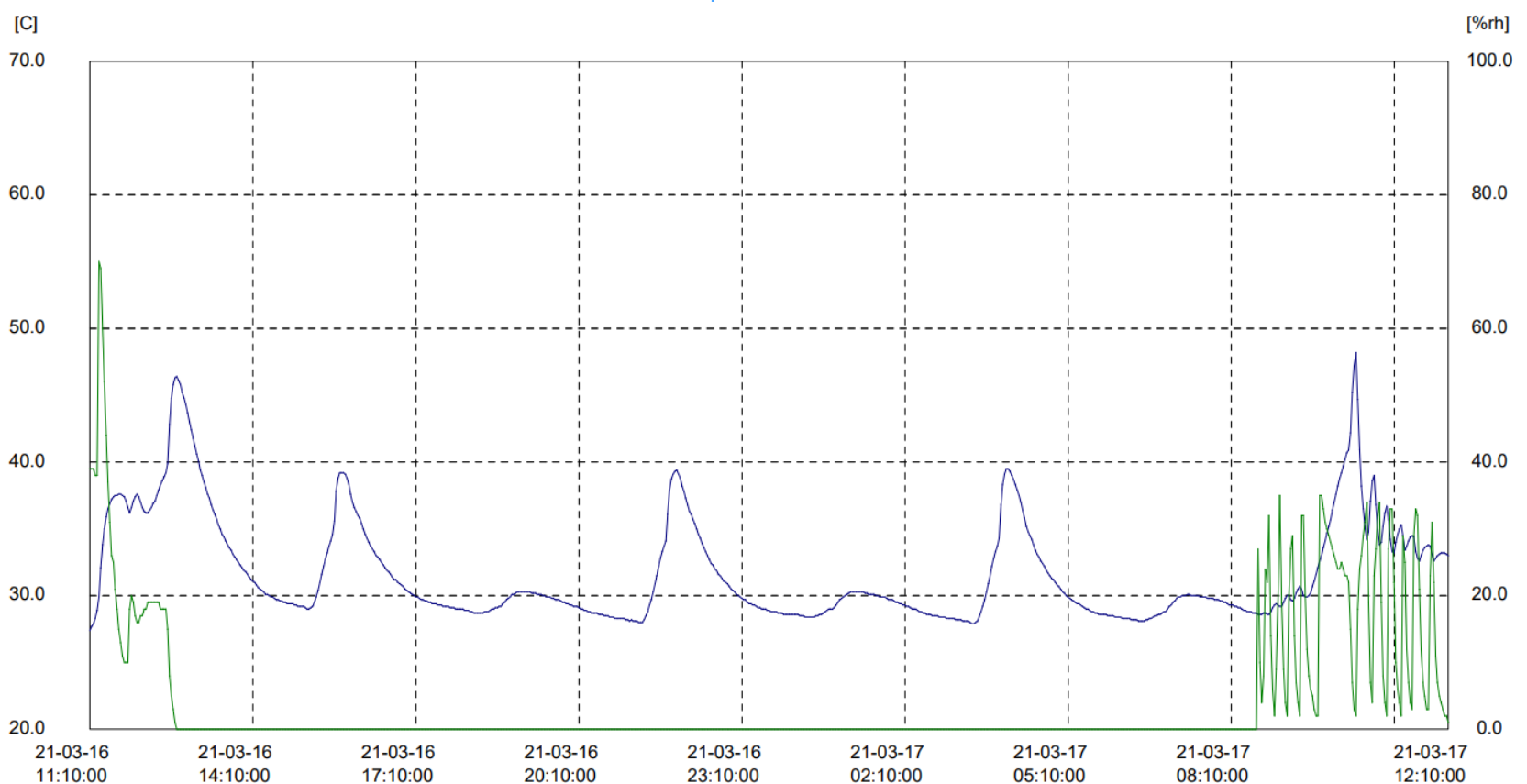| Humidity control	Min. <0.5%RH
Sensor precision	±2%RH, ±1° C
External dimensions	(W x H x D) 1200 x 1840 x 670 mm
Internal dimensions	(W x H x D) 1157 x 1545 x 490 mm
Weight	266 kg
Capacity	1160 L
Shelves (W x D)	ESD safe steel shelves 5 pcs, height adjustable
Max weight on shelf	100 kg
Structure	1.2mm Steel, ESD safe
Cabinet color	Gray
Door	6 pcs, with handles, airtight magnetic sealers
ESD grounding wire	1M Ω
Voltage	AC220V, 50/60Hz (110 V AC optional)
Power consumption	Ave. 193.1W/h
Castors	4 pcs, 2 of them with brakes

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front view

without doors

A-A' section

top view

❖ Customized models with different dimensions are AVAILABLE.
❖ The drawing is for reference only, specification is subject to change.

Door-open-close test (unloaded)   Environment: 25 ℃ / 60 %RH

XSD2-1280
Dry cabinet with the same body + nitrogen purge with 25L/min

After door-open-close, humidity recovers 5%RH from 40%RH with Min. 6 minutes.

The door is opened for 2 minutes.   Time (m)

Unloaded test and door open test

❖ Test time: 2021.03.16 11:10 ~ 2021.03.17 12:10
❖ Instrument: CHINO Data logger, Model: MR6662. Accuracy rating: ± 0.5° C, ±3%RH.

T O T E C H

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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
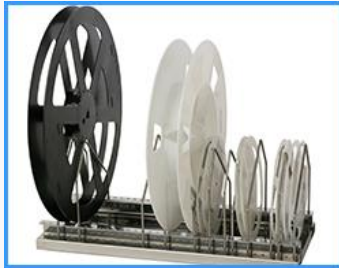❖ Lock the panel to avoid unintended changes of setting
❖ Sensor calibration

Available options

❖Extra shelf

Greatly increase the usable space inside Super Dry

❖SMD single rack (stainless steel)

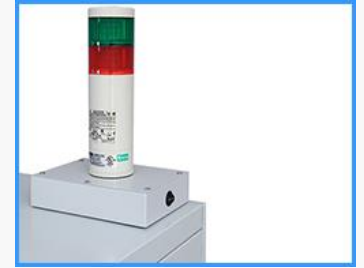Suitable for storage of components on tape and reel, can pull out on rail

❖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)

To purge N2 as per pre-set humidity value or oxygen set value automatically. Save N2.

❖Nitrogen valve (Model: HN2-01)

Simple N_2 flow meter 0-25L/min adjustable

❖Nitrogen auto purge system (Model AN2-03)

To purge N2 after door-open-close automatically; or purge manually.

❖Adjustable legs

Available for effective stabilization

❖Wrist strap connection

Standard

Allows grounding while handling ESD sensitive materials

❖Data logger with software (TESTO 174H)

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

❖Castors(4 pcs)

Standard

To move the cabinet on floor easily