SUPER DRY

SDU Series　0.5%RH　（Digital Control Panel: 0.5%RH）

Dry Unit ×2

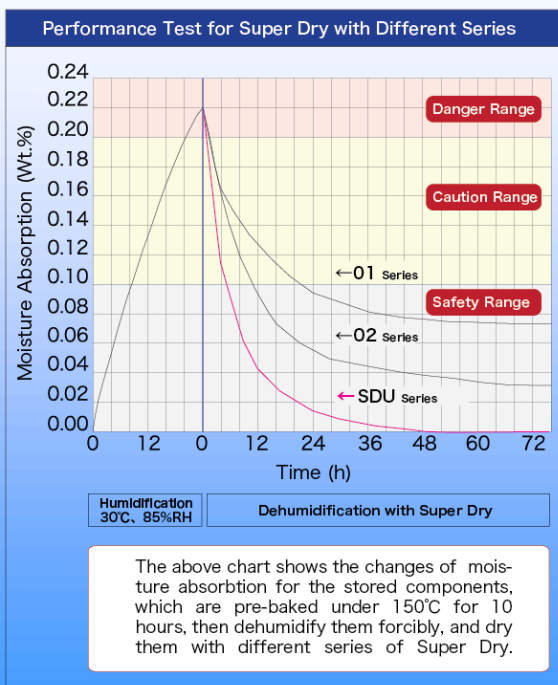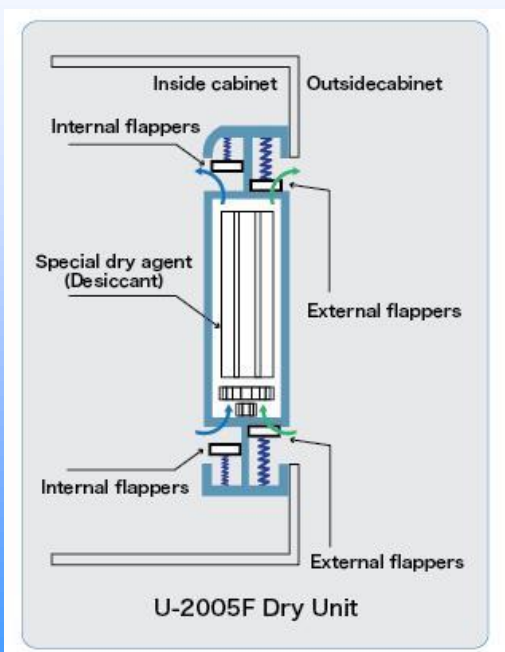### Superior Recovery after Frequent Door Openings

SDU series are equipped with Toyo newly developed dry unit U-2005F, to reach and keep ultra-low humidity min. 0.5%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

IPC/JEDEC J-STD-033C Requirement					TOTECH Requirement
SMD,Handling	MSL	Exposure Time	≤10%RH	≤5%RH	≤0.5%RH
Pause Floor Life	2、2a、3	/	√	√	★
	4、5、5a	/	X	√	★

SDU-1206-00　　SDU-1204-00　　SDU-702-00　　SDU-302-00　　SDU-502-00　　SDU-252-00

Model	SDU-1206-00	SDU-1204-00	SDU-702-00	SDU-302-00	SDU-502-00	SDU-252-00
External WxHxD(cm)	120x184x67		62x184x78	50x123x64	88x90x74	88x90x38
Internal WxHxD(cm)	119x156x62		61x156x73	49x116x59	87x83x69	87x83x33
Capacity(L)	1160		680	340	510	252
Weight(kg)	167	162	117	67	67	46
Mean Power Consumptin	56W/h=40.4kW/month			56W/h=40.4kW/month		
Rated Voltage	AC220V, 50/60Hz (Other voltage is optional)					
Material	1.2mm steel body with ESD safe paint and Conductive Glass Windows					
Stainless Steel Shelves	5 pcs			7 pcs		3 pcs

Inside cabinet　Outsidecabinet

Internal flappers

Special dry agent (Desiccant)

External flappers

Internal flappers

External flappers

U-2005F Dry Unit

Performance Test for Super Dry with Different Series

Moisture Absorption (Wt.%)

Danger Range

Caution Range

←01 Series

Safety Range

←02 Series

←SDU Series

Time (h)

Humidification 30℃、85%RH	Dehumidification with Super Dry

The above chart shows the changes of moisture absorbtion for the stored components, which are pre-baked under 150℃ for 10 hours, then dehumidify them forcibly, and dry them with different series of Super Dry.

Superior Features of SDU Series

Dry unit U-2005F by Toyo Living

SUPER DRY

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

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 Stainless steel shelves
③ ESD safe glass window
④ Wrist strap
⑤ Earth point for wrist strap
⑥ 1MΩ earth resistance wire

Digital Panel

Simple and easy to set humidity Temperature can also be indicated
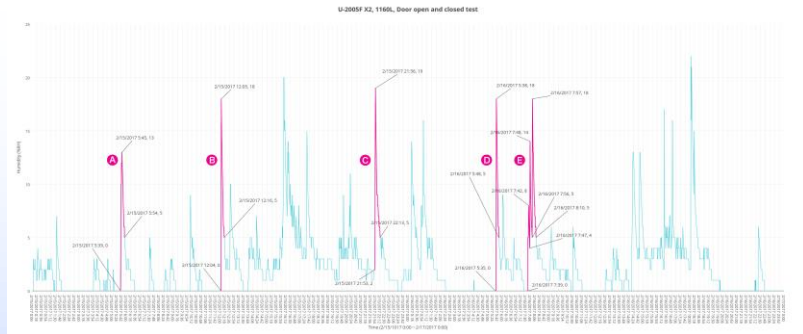
Humidity Sensor

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>

SDU is installed 2 dry units U-2005F, and when one is regenerating, the other will keep on absorbing moisture to make sure the humidity will drop fast after door open and close.

U-2005F X2, 1160L, Door open and closed test

Keeping constant humidity

SDU is equipped with the latest developed dry units, and it can keep higher moisture absorption even under the humidity below 5%RH with its highly efficient regenerating and precise controlling, to make the dry agent absorb moisture constantly.

SUPER DRY VS SUPER DRY ULTRA (Unloaded Test) Environment: 25℃ 60%RH

SUPER DRY : Ave. recycling period ≈ 8(h)

SUPER DRY ULTRA : Ave. recycling period ≈ 100(h)

Humidity (%RH)

Time (h)