

A Member of the ASYS Group



# **Acrylic Cabinet**



The ESDA Series is equipped with a patented drying unit U-2000. Engineered for medium to long term constant low humidity storage of <5 %RH.

Humidity, temperature and alarm functions are shown and can be adjusted on a digital display.

Proven in use around the world, the unique design of the ESDA 402 is highly energy efficient, representing a significant cost advantage for our customers.

The ESDA version is produced ESD safe. The surfaces of the cabinet are not chargeable. Acrylic body  $10^{-7}\,\Omega/\text{sq}$ .

The ESDA 402-21 is ideal for the moisture proof and anti oxidation storage of wide ranging technologies and conforms with IPC/JEDEC J- Std 033C.











Fax: +31 (0) 38 2203 1052

K.v.K: 390 86417

e-mail: sales@superdry-totech.com

V.A.T.: NL813341887B01 IBAN: NL83RABO0145683443

**BIC: RABONL2U** 





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### **Standard Features**

✓ Accuracy of sensor RH% & T°C

√ ESD safe design

✓ Door alarm buzzer

✓ Lockable doors

√ Shelves

1 series digital display

√ Drying unit

Pre mounted holes

✓ Power supply

+/- 3% RH, +/- 0,3°C

Surfaces of the cabinet are not chargeable

Dissipative acrylic glazing (in- and outside 10<sup>7</sup> Ohm/sq)

Longer door openings are detected

2 doors locked with key

In height adjustable chrome steel shelves (5 pcs)

Very convenient settings of RH%, temperature, alarm and

calibration functions.

U-2000 drying unit

For nitrogen unit

Power cord 5 meter with IEC plug

#### **Benefits**

✓ Datalogging

√ Recovery time after door opening

√ Highly energy efficient

✓ Option availability

√ IPC

√ Clear polycarbonate body

Maintenance

Through network with software and optional hardware

<30 minutes to below 5% (by 1 door opening)

Average power consumption 35 W/h.

N<sub>2</sub> auto flow, SMD reel racks, etc.

According to IPC-JEDEC J-STD 033C & IPC-1601

Easy to look through

The drying unit is maintenance free, easy to service

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### **Technical data cabinet**

✓ External dimensions:  $(W \times H \times D) 574 \times 1485(1690) \times 517 \text{ mm}$ ✓ Internal dimensions:  $(W \times H \times D) 560 \times 1480 \times 480 \text{ mm}$ 

✓ Weight:

✓ Weight on shelf:
✓ Max. loading capacity:
✓ Frame:
60 kg
30 kg
100 kg

✓ Frame:

Alumin

 $\sqrt{\phantom{0}}$  Frame: Aluminium, ESD coated  $\sqrt{\phantom{0}}$  Body: ESD-Polycarbonate 10<sup>7</sup> Ω/sq

 $\checkmark$  Shelves (WxD): 4 pcs long, 460 x 490 mm adjustable

1 pcs short, 460 x 380 mm adjustable 386 L (due to volume of drying unit)

✓ Electric supply: 230 VAC (120 VAC optional)

✓ Power consumption: Average 35 W/h

✓ Protection class: Class 1, hard grounded

√ Humidity level cabinet: ≤2% RH depending on amount of door openings

### **Technical data type 1 display**

### **Settings**

✓ Volume:

- ✓ Nominal value humidity
- ✓ Nominal value humidity alarm (light)
- ✓ Delay time humidity alarm
- ✓ Nominal value temperature
- ✓ Door alarm buzzer
- ✓ Offset possibilities

### Technical data dry-unit U-2000 series

- ✓ Control: Adjustable with control panel type 1
- ✓ Dehumidifying Temperature: 10 40° C
- ✓ Electric supply: 230 VAC (120 VAC optional)
- √ Dimensions (L x B x H): 260 x 380 x 100 mm
- ✓ Weight: 8,1 kg

### **Technical data N<sup>2</sup> Auto Flow**

✓ N² connection: 8mm hose connection

 $\checkmark$  N² pressure: 1 - 6 bar  $\checkmark$  N² standby amount: 0 - 25 L/min  $\checkmark$  N² purge: 0 - 25 L/min  $\checkmark$  Purge time: 0 - 99 min

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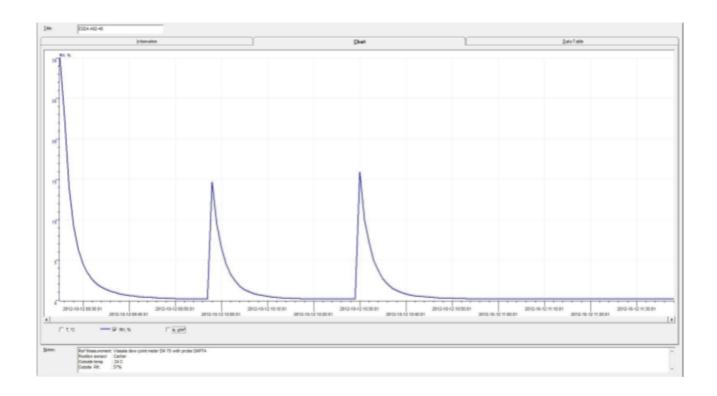
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### **Performance test**



### **Test conditions**

✓ Instrument: Vaisala

✓ Type of dew point sensor: Vaisala drycap 180M

✓ Accuracy of dew point sensor:  $\pm 0.2^{\circ}$  C at  $+ 20^{\circ}$  C ( $+ 68^{\circ}$  F)

✓ Location of sensor: In the direct surroundings of the cabinet sensor

✓ Ambient conditions: Hum.  $50 \pm 5\%$  rH,  $22^{\circ}$ C  $\pm 2^{\circ}$ C, Pressure  $994 \pm 20$  hPa

✓ Door openings: 2 door openings, 15 sec. (average RH 0,70%)

For more detailed test results, please refer to our website.

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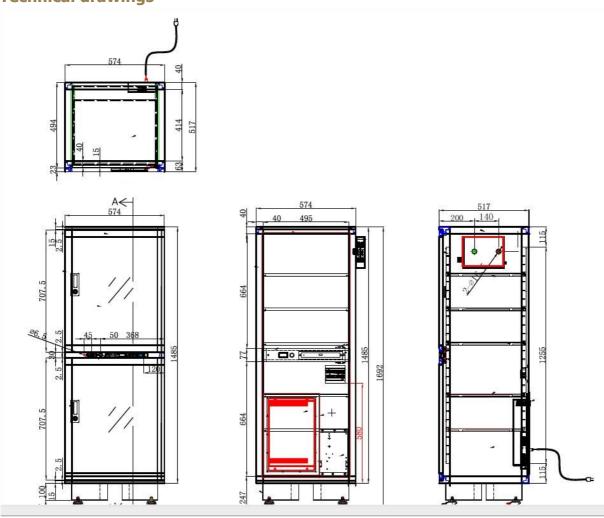
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# **Technical drawings**



Dimensions mentioned in mm.

Maximum number of shelves mounted in the cabinet: 17 pcs long, 7 pcs short shelves. Minimum space between the shelves: 35 mm.

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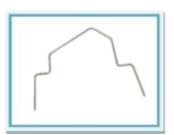
# **Options**



### SMD Reel rack with reel supports

460 mm length.

Item number 20014000



#### **Reel support**

Additional reel supports for 20014000.

Item number 20014200



#### Shelf standard incl. brackets.

For cabinets type ESDA 201 & 402

Standard:

Item number 20100021 Short, when drying unit is mounted: Item number 30010100



#### N<sup>2</sup> Auto Flow system

The  $N^2$  Flow system is developed to use in combination with a Totech drying cabinet. The device is used for the quick removal of moisture in the cabinet. The drying process is realized by using nitrogen. Adjustable 10 - 100 L/min.

Item number 22613001



#### **Trolley**

For easy transportation of the cabinet, 1 meter high

Only on request

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### **Options**



### **Humidity calibrator Hygropalm 22**

Precision measuring device for calibrating sensors.

Set including Hygroclip sensor, case and cable: *Item number 20001019* Hygropalm only: *Item number 20001016* 



### **Set main spare parts SD cabinet**

Set includes the main spareparts of the SD cabinet: Dry-unit U-2000, Main PCB and Power Supply *Item number 30006099* 

Exchange set main spare parts SD cabinet: *Item number 30006096* 



#### **SuperDry Data Logger**

Highly accurate data logger with standard Ethernet interface. Compatible with the Free Totech Viewer and Totech Monitor.

Item number 47000582

V17.11

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