



Storage Cabinet



Outstanding performance

The SD Series is equipped with a dynamic drying unit U-2000. Engineered for medium to long-term constant low humidity storage of $\leq 2\%$ RH.

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

The circulation of air in the cabinet is regulated through an integrated fan.

All surfaces are ESD coated in conformity with current ESD 61340-5-1 standard.

The SD 502-21 is ideal for the moisture-proof and anti-oxidation storage of wide-ranging technologies and conforms with IPC/JEDEC J- STD 033C & IPC-1601.





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and

SD 502-21

Standard Features

 \checkmark

 \checkmark

 \checkmark

 \checkmark

Accuracy of sensor RH% & T°C	+/- 3% RH, +/- 0,3°C
ESD safe design	Norm (IEC 61340-5-1) ESD metal painted body (<10 ⁶ Ohm/sq) Dissipative glazing (in- and outside 10 ⁸ Ohm/sq)
Door alarm buzzer	Longer door openings are detected
Lockable doors	2 doors locked with key
Shelves	In height adjustable ESD painted steel shelves (3 pcs)
1 series digital display	Very convenient settings of RH%, temperature, alarm calibration functions.
Drying unit	U-2000 drying unit
ESD bonding point	ESD wristband can be connected to the cabinet
Pre mounted holes	For nitrogen unit & heater

V Power supply

Benefits

- ✓ Data logging
- \checkmark Recovery time after door opening
- ✓ Highly energy efficient
- ✓ Option availability
- V IPC
- ✓ Temperature
- Maintenance

Through network with software and optional hardware		
<30 minutes to below 2% (by 1 door opening)		
Average power consumption 35 W/h.		
N_2 auto flow, heating, SMD reel racks, etc.		
According to IPC-JEDEC J-STD 033C & IPC-1601		
Maximal up to 40°C (optional)		

The drying unit is maintenance free, easy to service

Power cord 5 meter with IEC plug

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SUPER DR

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Technical data cabinet

- External dimensions:
- ✓ Internal dimensions:
- ✓ Weight:
- ✓ Weight on shelf:
- ✓ Max. loading capacity:
- ✓ Body:
 ✓ Shelves (WxD):
 ✓ Volume:
- ✓ Electric supply:
- ✓ Power consumption:
- ✓ Protection class:
- ✓ Humidity level cabinet:

(W x H x D) 880 x 898 x 740 mm (W x H x D) 870 x 830 x 702 mm

- 70 kg
- 50 kg
 - 100 kg
 - Steel, conductive coated $10^8 \Omega/sq$
 - 3 pcs, 848 x 640 mm adjustable.
 - 496 L
- 230 VAC (120 VAC optional)
 - Average 35 W/h (excl. heating)

- Class 1, hard grounded ≤2% RH depending on amount of door openings

Technical data type 1 display

Settings

- ✓ 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 heater SH 230-1

\checkmark	Voltage:	230 VAC / 50 Hz (120 VAC / 60 Hz optional)
\checkmark	Power:	530 W
\checkmark	Temperature sensor:	PTC 100
\checkmark	Thermal protection:	90 °C
\checkmark	Temperature range:	30 - 40 °C
\checkmark	Air flow:	86 m³/h
\checkmark	Display tolerance:	1 digit at 25 °C

Technical data N² (Auto) Flow

\checkmark	Power supply:	90 - 230 VAC
\checkmark	N ² connection:	8mm hose connection

- \checkmark N² connection:
- \checkmark N² pressure:
- ✓ N² standby amount:
 ✓ N² purge:
- 1 6 bar 0 - 25 L/min

- ✓ Purge time:

- 0 25 L/min 0 - 99 min

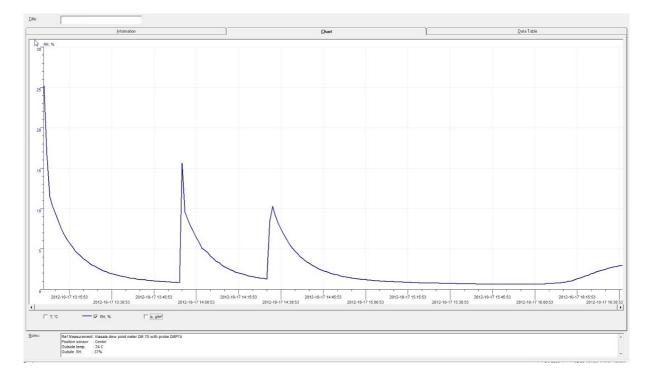
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Performance test



Test conditions

- ✓ Instrument:
- ✓ Type of dew point sensor: 180M
- ✓ Accuracy of dew point sensor: 20° C (+ 68° F)
- ✓ Location of sensor:
- Ambient conditions:
- ✓ Door openings:

In the direct surroundings of the cabinet sensor Hum. 50 \pm 5% rH, 22°C \pm 2°C, Pressure 994 \pm 20 hPa 2 door openings, 15 sec.

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

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Vaisala

Vaisala drycap

± 0,2° C at +

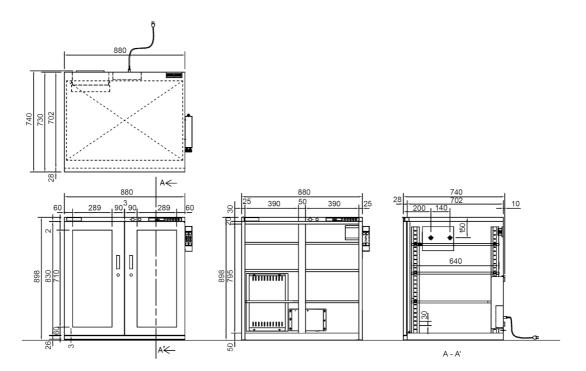




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SD 502-21

Technical drawings



Dimensions mentioned in mm.

Shelves

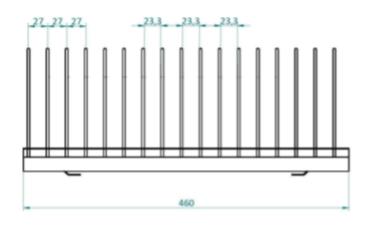
Number of shelves	1	2	3	
Distance (in mm) between shelves if equally divided in bottom section	x	255	165	х
Remaining space between top shelf and middle beam	425	275	275	х
Remaining space between bottom shelf and bottom cabinet		255	165	х
Loading capacity shelves m ² (830 mm x 640 mm)	0,53	1,06	1,59	x

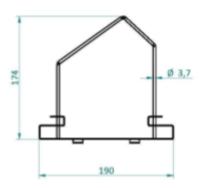
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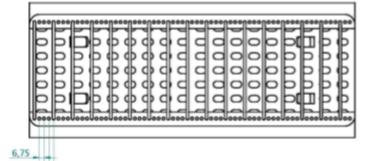




Technical drawings







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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



Humidity alarm signal lamp

One color (orange or red), magnetically fixed, providing optical signals on operational states and exceeded limit values. Operates on 24V.

Item number 20016033



N² Autoflow system

The autoflow 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 after the doors have been opened. The drying process is realised by using Nitrogen (N^2), which is purged automatically after the doors are closed. (timer controlled) *Item number 22613001*

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Options



Shelf standard

Chrome steel shelf, short: *Item number 20030210*

Chrome steel shelf, long: *Item number 20030202*

Set main spare parts SD cabinet

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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

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