SD 151-21

The SD Series is equipped with a patented U 2000 Drying Unit. It is engineered for medium to long-term constant low humidity storage of 1% 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 internal fan.

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

The SD-151-21 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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V.A.T.: NL813341887B01
IBAN :NL83Rabo0145683443
B.I.C./Swift: RaboNL2U
Bank: 1456.83.443

Features

Accuracy of sensor RH% & T°C	+/- 3% RH, +/-0.3 °C
Lockable doors	Door locked with key
ESD safe design	Norm (IEC 61340-5-1) ESD metal painted body (10^6 Ohm/sq). Dissipative glazing (inside and outside 10^8 Ohm/sq)
Shelves	3 height adjustable chrome steel shelves
Door alarm	Door is equipped with a switch which triggers the humidity or door alarm if the preset value is exceeded
Dry unit	U 2000 Dry Unit.
ESD bonding point	ESD wristband can be connected with the cabinet
21 series digital panel	Very convenient settings of RH%, temperature, alarm and calibration funtions.
Pre mounted holes	For nitrogen unit & heater
Power supply	5 meter cable with IEC plug

Benefits

Maintenance	The drying unit is maintenance free
Highly energy sufficient	Average power consumption 35 W/h
Option availability	N2 auto Flow, Heating, SMD Reel racks, etc.
Recoverytime after door opening	<15 min to below 1%. (after 1 door opening)
Adjustable legs	For levelling out
Datalogging	Through network with software
Temperature	Maximum up to 40 °C (optional)
IPC	According to IPC/JEDEC J- STD 033C & IPC-1601

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Technical Data Cabinet

- External dimensions: (W x H x D) 500 x 630 x 580 mm
- Internal dimensions: (W x H x D) 490 x 560 x 450(530) mm
- Weight: 37.1 kg
- Max weight on shelf: 30 kg
- Max. loading capacity: 100 kg
- Body: Steel, conductive coated 10^6-10^8 Ω/sq
- Shelves (W x D): 3 pcs, 468 x 380 mm adjustable
- Volume: 135 L
- Voltage: 230 V AC (120 V AC optional)
- Power consumption: 35 W/h
- Protection class: Hard grounded, Class 1
- Humidity level cabinet: Drying 1% RH *

*(depending on amount of door openings)

Technical Data Dry Unit U-2000

- Control: Adjustable with control panel 21-series
- Voltage level: 230 V/50 Hz. (optional 120 V/60 Hz)
- Power consumption: 35 W/h
- Dimensions: W x L X D = 260 mm x 380 mm x 100 mm
- Weight: 8.1 kg.

Technical Data 21 Display

Settings:

- Nominal humidity value
- Nominal humidity value alarm (light)
- Time delay humidity alarm
- Nominal temperature value
- Door alarm buzzer
- Offset possibilities

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Technical Data N^2 (Auto) Flow

- Power supply: 230 V AC (110 V AC optional)
- N^2 Connection: 8 mm hose connection
- N^2 Pressure: 1 – 6 bar
- N^2 Standby- amount: 0 – 25 L/min
- N^2 Purge: 0 – 25 L/min

Technical Data Heater SH 230-1

- Voltage: 230 V AC (110 V AC optional)
- Frequency AC: 50/60 Hz
- Power: 530 W
- Temperature sensor: PTC 100
- Thermal protection: 90 ºC
- Temperature range: 30 – 40 ºC
- Air Flow: 86 M^3/H
- Display tolerance: 1 digit at 25 ºC

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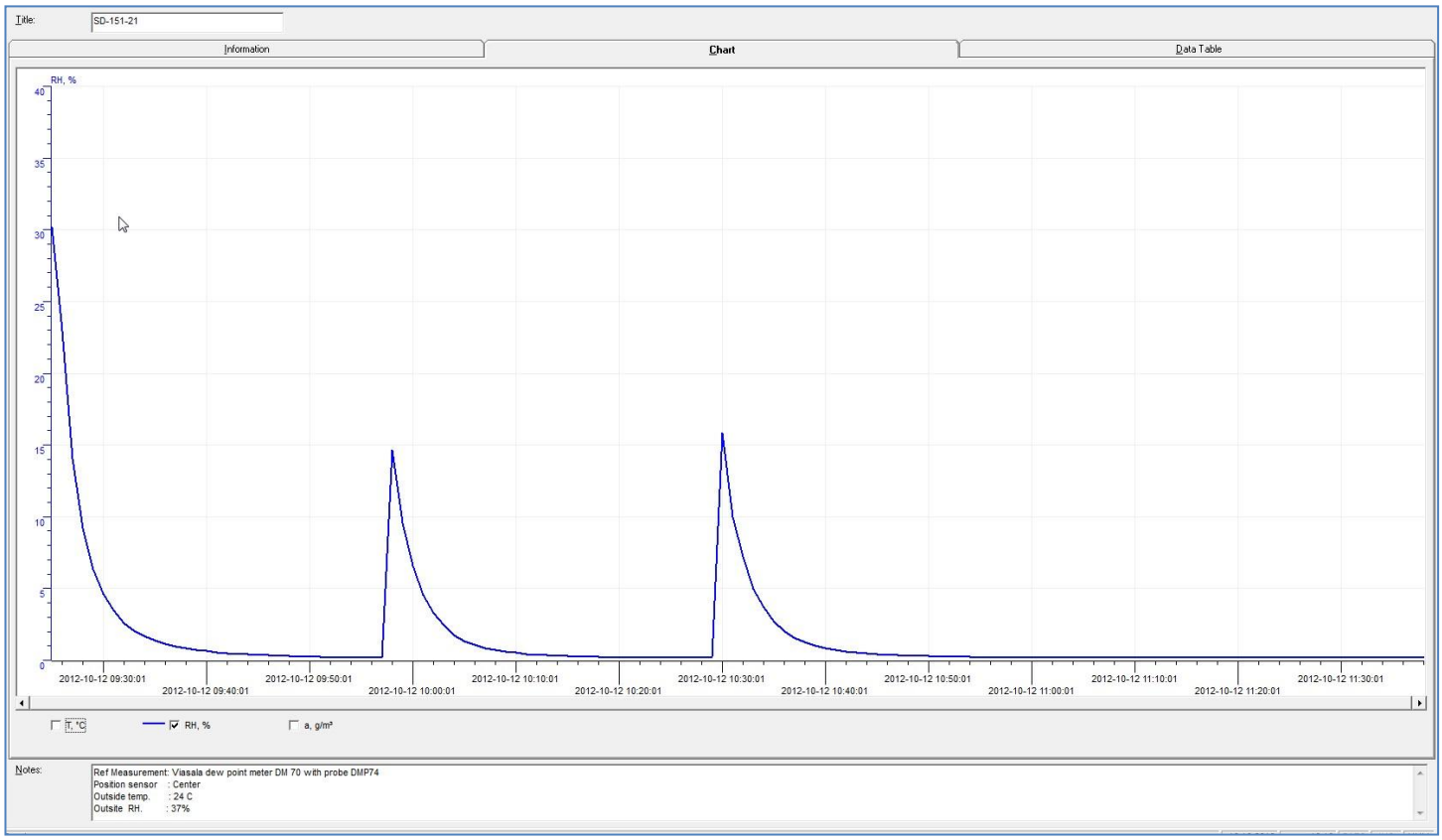
Performance



Test conditions

Instrument:	Vaisala.
Type of dew point sensor:	Vaisala drycap 180M
Accuracy of dew point sensor:	± 0,2° C at + 20° C (+ 68° F)
Location of sensor:	In the direct surrounding of cabinet sensor
Ambient conditions:	Humidity 50 ± 5% rH, 25° ± 2°C, Pressure 994 ± 20 hPa.
Door openings:	2 door openings, 15 sec. (average RH 0.70%)

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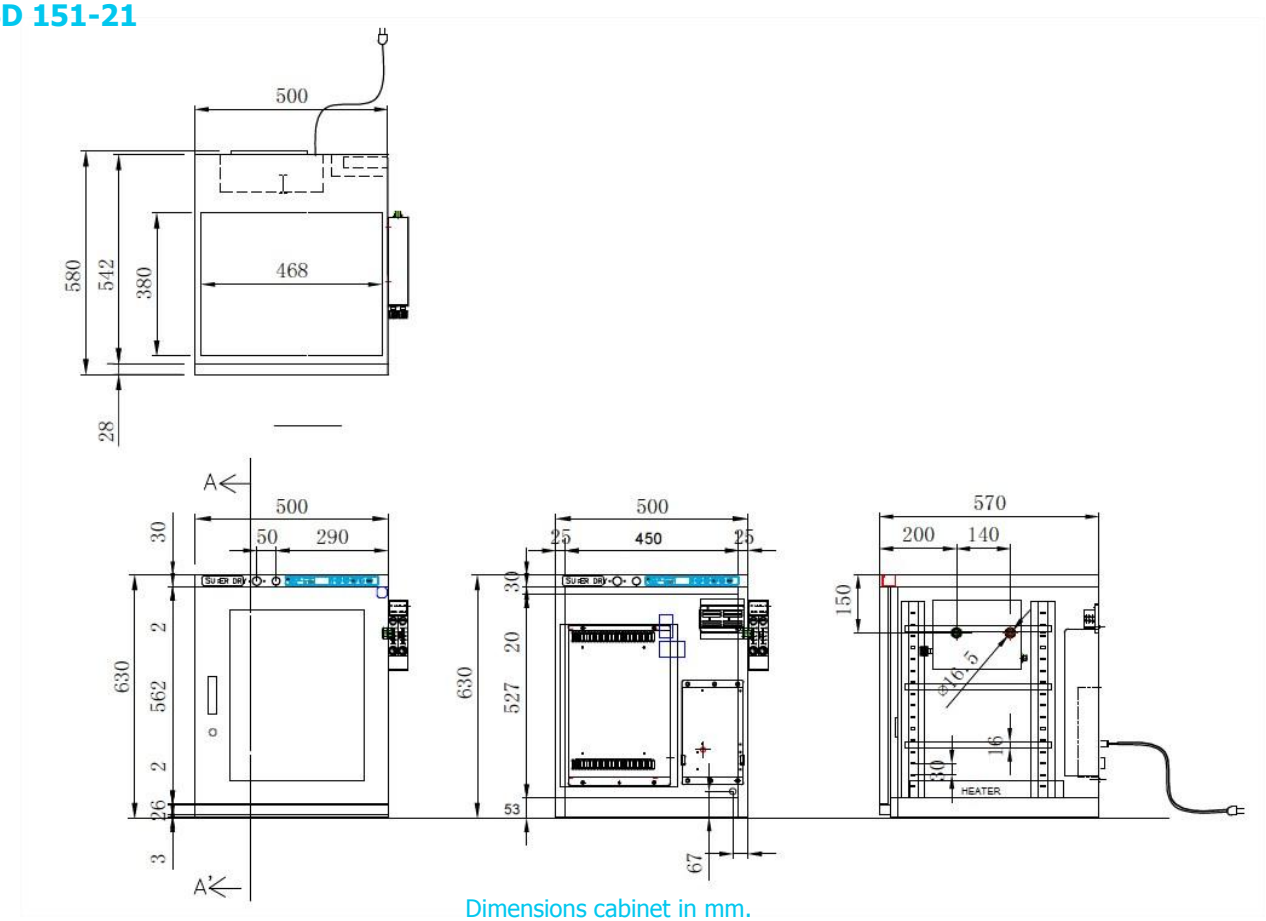
Technical Drawings

SD 151-21



Dimensions cabinet in mm.

Number of shelves	1	2	3
Distance (in mm) between shelves if equally spaced		165	103
Remaining space between top shelf and top beam	295	155	120
Remaining space between bottom shelf and bottom cabinet	265	175	145
Shelves are adjustable every (cm)	30	30	30
Loading capacity shelves m^2 (468 mm x 380 mm)	0,18	0,35	0,53

Measurements can slightly deviate.

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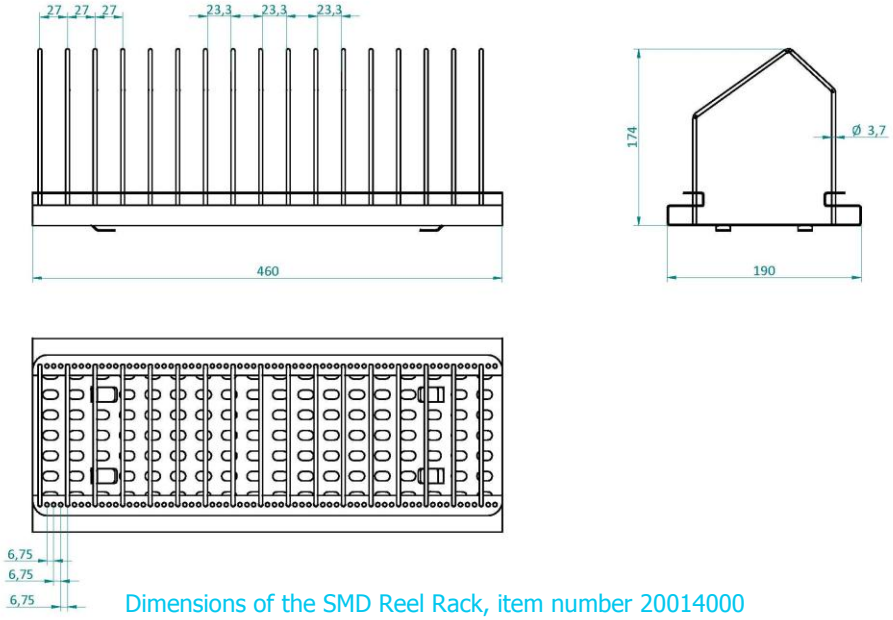
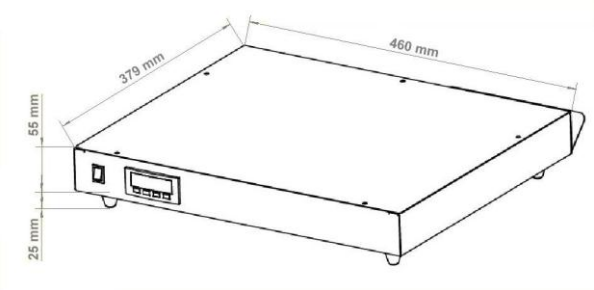
Technical Drawings



Dimensions of the SMD Reel Rack, item number 20014000



Dimensions of the heater SH 230-1, item number 21001300

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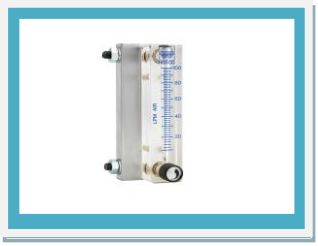
Options

N2 Auto Flow System

The Auto Flow System is developed for 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 realized by using nitrogen (N^2), which is added automatically after the doors have been closed (by means of adjustable timer function)

Item number 22613001



N2 Flow System 10-100

The N2 Flow System is developed for 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 (N^2). Adjustable 10 – 100 L/min

Item number 20010020.

SMD reel rack

460 mm length

Item number 20014000

SMD reel supports

Reel support for 20014000

Item number 20014200

Humidity calibrator Hygropalm 22

Precision measuring device for calibrating sensors

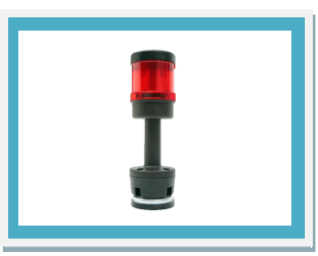
Set includes Hygroclip sensor, case and cable
Item number 20001019

Hygropalm only
Item number 20001016

Heater SH 230-1

40°C heater

Item number 21001300



Humidity alarm light - Red or Orange

Item number 20016033

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Options

Shelf
Chrome steel shelf

Item number 20001510

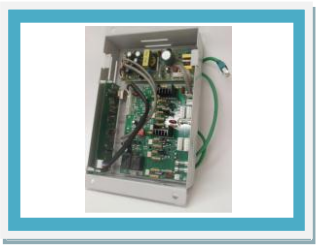
Brackets 4 pcs, item number 30003010

Set of spare parts for SD cabinet
Set includes the main spare parts for the SD cabinet: U-2000 Dry Unit, main PCB and power supply.

Item number 30006099

Exchange set of spare parts SD cabinet,
Same set as above, but as exchange.

Item number 30006096



SD network PCB incl. software

Item number 20024220

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