



A Member of the ASYS Group



Storage Cabinet

Phone: +31 (0) 321 330239

K.v.K.: Lelystad 390 86417

e-mail: sales@totech.eu

Fax: +31 (0) 321 330254



Outstanding performance

The newest and highest performance version in the venerable SD range is the SD+. New, upgraded hardware and software include a high accuracy digital sensor and integrated data logger. all climate data can be tracked and recorded over time through an Ethernet connection and included software.

The integrated data logger can provide all climate data and door openings from the cabinet through Ethernet and free available software, for further analysis.

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+ 1106-22 is ideal for the moisture-proof and anti-oxidation storage wide-ranging technologies conforms with IPC/JEDEC J- STD 033C & IPC-1601.











V.A.T.: NL813341887B01 IBAN: NL83Rabo0145683443

BIC: RaboNL2U

Bank: Rabobank 14.56.83.443

De Linge 28 8253 PJ Dronten

Totech Europe BV

www.superdry-totech.com



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Standard Features

✓ Online functionality

✓ ESD safe design

✓ Door & humidity alarm buzzer

✓ Lockable doors

✓ Shelves

2 series digital display

Drying unit

✓ Transport

✓ ESD bonding point

Rotronic sensor

Power supply

Interface and data logging through standard Ethernet interface Compatible with new MSL 2.0 software

Norm (IEC 61340-5-1)

ESD metal painted body (<10⁶ Ohm/sq)

Dissipative glazing (in- and outside 108 Ohm/sq)

Longer door openings are detected, high RH levels are detected

6 doors locked with key

In height adjustable ESD painted steel shelves (5 pcs)

Very convenient settings of RH% and alarm functions. (3 color)

U-2000 drying unit (2 pcs)

Castors, 360° rotating wheels

ESD wristband can be connected to the cabinet

Precision sensor, accuracy +/- 0,8 % RH, +/- 0,3°C

Power cord 5 meter with IEC plug

Benefits

✓ More stable RH and Temperature

✓ Recovery time after door opening

✓ Energy saving

✓ Network

✓ IPC

Sensor calibration

Maintenance

Remote access

Dynamic regeneration ensures a more stable climate

<30 minutes to below 2% (by 1 door opening)

Lower power consumption through dynamic regeneration

Standard ethernet interface

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

Yearly sensor calibration program for ISO standards

The drying unit is maintenance free, easy to service

Remote access for easy long distance service purposes

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Technical data cabinet

External dimensions: (W x H x D) 1200 x 1675(1840) x 658 mm (W x H x D) 1190 x 1533 x 630 mm ✓ Internal dimensions:

Weight: 155 kg ✓ Weight on shelf: 50 kg Max. loading capacity: 300 kg

Steel, conductive coated $10^7 \Omega/\text{sq}$ ✓ Body: ✓ Shelves (WxD): 5 pcs, 1157 x 490 mm adjustable.

✓ Volume: 1139 L

✓ Electric supply: 230 VAC (120 VAC optional) Power consumption: Average 35 W/h (excl. heating)

Protection class: Class 1, hard grounded

✓ Humidity level cabinet: ≤1% RH depending on amount of door openings

+/- 0,8 % RH, +/- 0,3°C ✓ Sensor accuracy:

Technical data type 2 display

Settings

- ✓ Language Menu
- ✓ Nominal Value Humidity
- ✓ Nominal Value Humidity Alarm
- ✓ Delay Humidity Alarm (in combination with heater)
- ✓ Nominal Value Temperature (in combination with heater)
- ✓ Temperature Alarm (in combination with heater)
- ✓ Delay Temperature Alarm
- ✓ Doors Alarm
- ✓ Interlocking
- Manual Regeneration

SUPER DRY®

Display

- ✓ Supply voltage (supplied by drying unit) 24 VAC/DC
- ✓ Input 4 function keys (tactile-touch keys)
- ✓ Display 61 x 33 mm, white, controllable backlight, adjustable contrast
- ✓ Ethernet connection
- ✓ Power consumption at 24 VDC, 40 mA

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Technical data Rotronic sensor HC2A-s



Based on the Airchip 3000 Technology use the HygroClip 2 probes can be used for control of temperature and humidity.

The HygroClip 2 probes can be configured with the ROTRONIC HW4 software and share the following features:

- ✓ Measurement of relative humidity and temperature
- Programmable automatic sensor test with failsafe mode and sensor drift compensation.

Technical data dry-unit U-2000 series

- ✓ Control: Adjustable with control panel type 2
- ✓ 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 230-4

✓ Voltage: 230 VAC / 50 Hz (120 VAC / 60 Hz optional)

✓ Power:
 ✓ Temperature sensor:
 ✓ Thermal protection:
 ✓ Temperature range:
 ✓ Air flow:
 ✓ Display tolerance:
 ✓ 1 digit at 25 °C

Technical data N² Auto Flow

✓ Power supply: 90 - 230 VAC

✓ N² connection: 8mm hose connection

✓ N^2 pressure: 1 - 6 bar ✓ N^2 standby amount: 0 - 25 L/min ✓ N^2 purge: 0 - 25 L/min ✓ Purge time: 0 - 99 min

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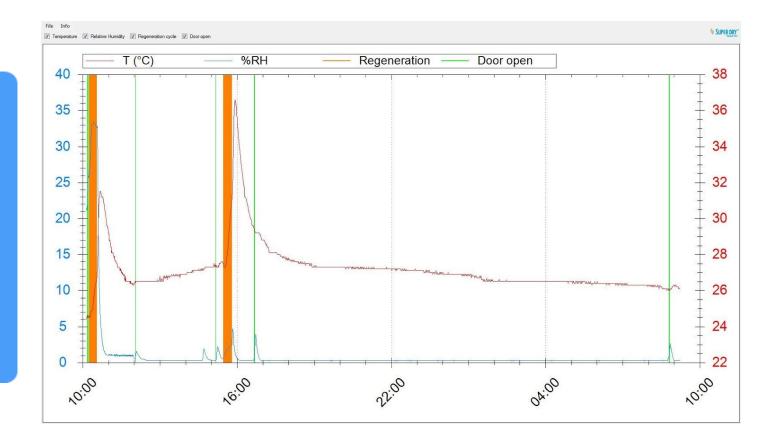




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Free Totech viewer

- ✓ Writing of climate data, door openings and alarms to SD card
- ✓ Transfer data through Ethernet to PC (history data)
- User-friendly display of all relevant data
- ✓ Data processing in MS-Excel
- ✓ Seamless documentation
- ✓ Excellent process safety



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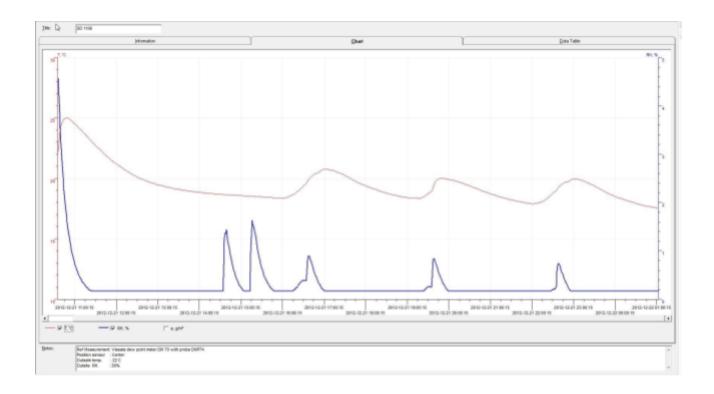
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Performance test



Test conditions

✓ Instrument: Vaisala drycap 180M

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

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

✓ Ambient conditions: Hum. $50 \pm 5\%$ rH, 25° C $\pm 2^{\circ}$ C, Pressure 994 ± 20 hPa

✓ Dooropenings: 2 door openings, 15 sec.

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

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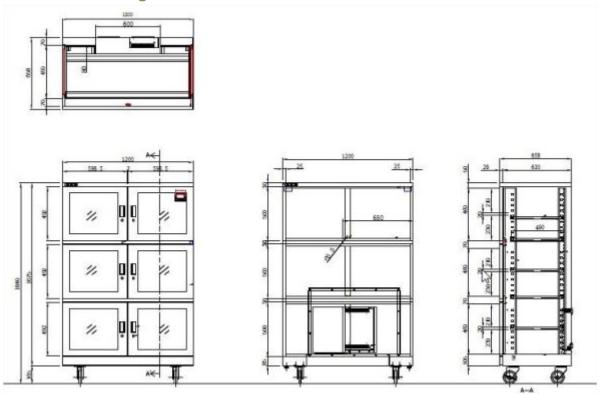
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Technical drawings



Dimensions mentioned in mm.

Shelves

Number of different types of shelves that can be mounted in the cabinet

Number of shelves bottom section	2	3
Distance (in mm) between shelves if equally divided in bottom section	160	80
Remaining space between top shelf and lower beam	150	155
Remaining space between bottom shelf and bottom cabinet	125	75
Number of shelves middle section	2	3
Distance (in man) between the last if a smaller divided in bettern costion	230	130

Number of shelves middle section		3
Distance (in mm) between shelves if equally divided in bottom section	230	130
Remaining space between top shelf and top beam	210	140
Remaining space between bottom shelf and lower beam	0	0

Number of shelves top section	2	3
Distance (in mm) between shelves if equally divided (if bottom shelf is mounted at lowest possible position in top section)	230	130
Remaining space between top shelf and top beam	210	140
Remaining space between bottom shelf and upperbeam	0	0

Measurements can slightly deviate.

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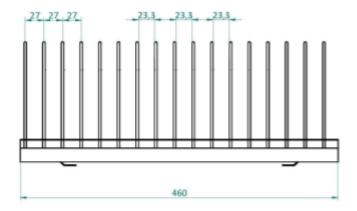
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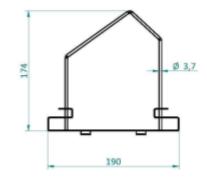


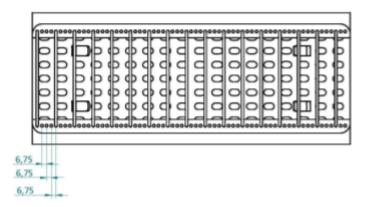


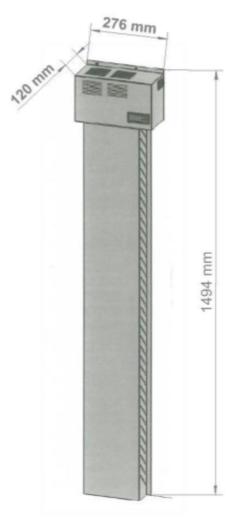
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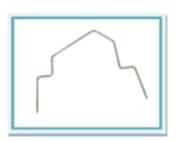
Options



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

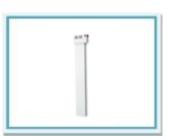
Two-color (orange/green or red/green), magnetically fixed, providing optical signals on operational states and exceeded limit values. Operates on 24V.

Item number 20016030



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 (N2), which is purged automatically after the doors are closed. (timer controlled) Item number 22613000



Heater SH 230-4

40°C heater

Item number 21001001

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Options



Shelf standard

For cabinets type 1104 and 1106

Standard: *Item number 20015100*With 2 drying units: *Item number 20111609*



X Feeder system

This feeder rack is suitable for Siemens X Feeder systems. Sold in combination with reel rack.

Item number 46204004



S Feeder system

This feeder rack is suitable for S Feeder systems. Sold in combination with reel rack.

Item number 46204009



Hygroclip 2

Probe with maximum accuracy for all climate measurements.

Item number 470000027

Excange calibrated sensor: *Item number 47000040*



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*

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Options





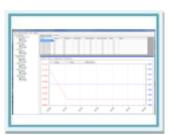
Software solution for the monitoring of moisture sensitive components and their MSL states during storage and processing in the production. The exact drying state individually for each component is monitored and displayed with the software. One of the possibilities is that it can read out multiple HC2A-S sensors. To adjust storage conditions, picking of stock, removal of used parts and more stock control. A complete history for each component is traceable up to the full processing. The evaluation of the drying conditions is based on the requirements of the IPC / JEDEC J-STD-033B1 directive. *Item number 20010036*



MSL software upgrade with additional 1000 components

Upgrade to monitor an additional 1000 components

Item number 200174502



Totech Monitor software

Realtime cabinet monitoring with alarm function, sending e-mails with detailed information on the status of the cabinet. History data files with graphical overview

Item number 47000583

V17.12

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