



Dry Cabinet





Outstanding performance

The XSD series has an outstanding performance for drying moisture sensitive components and pcb's.

The dynamic drying unit of the 5000 series reaches very reliable low humidity values of $\leq 0,5\%$ RH and automatically regenerates if necessary.

As a result of an insulated double metal sandwich construction a precise temperature of 60°C can be reached with a very low power consumption.

A radial fan and heater supports the drying process and realizes an equable temperature and moisture level in the cabinet. The relevant process data is obtained by use of an accurate Rotronic sensor.



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Standard features

| \checkmark | User friendly handling | Touchscreen display with easy menu structure |
|--------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| \checkmark | ESD features | Norm (IEC 61340-5-1) ESD stainless steel body (<10 ³ Ohm/sq) Conductive glazing (in- and outside 10 ³ Ohm/sq) |
| \checkmark | Insulation | 60 mm sandwich construction with Polyurethane |
| \checkmark | Online functionality | Interface and data logging through standard Ethernet interface Compatible with new MSL 2.0 software |
| \checkmark | Door & humidity alarm buzzer | Longer door openings are detected, high RH levels are detected |
| \checkmark | Leveling out | Adjustable legs |
| \checkmark | Lockable doors | Every door can be locked separately with a key. |
| \checkmark | Shelves | In height adjustable sliding shelves (10 pcs) |
| \checkmark | U-5000 series drying unit | ≤0,5% RH, made in Germany |
| \checkmark | Rotronic sensor | Precision sensor, accuracy +/- 0.8 % RH, +/- 0.3°C |
| \checkmark | Power supply | Power cord 5 meter with IEC plug |

Benefits

| Drying time (see reference table) | Fast drying time, Level 3 component, <1,4 mm = 18 hours (60°C / 1% RH) |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recovery time after door opening | < 6 minutes |
| Temperature stability | The same temperature level throughout the drying cabinet as a result of the use of a radial fan in combination with ventilation and heating canal in an insulated sandwich construction |
| Temperature setting | Heating up to 40°C (optional to 60°C), accuracy +/- 2°C |
| Energy saving consumption | As a result of a Dynamic dry unit, sandwich construction with insulating Polyurethane. |
| Network | Standard ethernet interface |
| IPC | According to IPC-Jstd 033C |
| European Quality | Made in Germany |
| Maintenance | Easy to service, low maintenance |
| | Recovery time after door opening Temperature stability Temperature setting Energy saving consumption Network IPC European Quality |

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Technical data cabinet

- External dimensions:
- Internal dimensions:
- ✓ Weight:
- ✓ Weight on shelf:
- ✓ Shelves (WxD):
- ✓ Volume:
 ✓ Electric supply:
- ✓ Power consumption:
- V Protection class:
- ✓ Humidity level cabinet:
- ✓ Sensor accuracy:
- ✓ Temperature accuracy:

- (W x H x D) 1432 x 1930/2110 x 808 mm
- (W x H x D) 1315 x 1504 x 600 mm
- 230 kg
- 50 kg
 - 10 pcs, 535 x 550 mm. (max 30 pcs.)
 - 1190 L
 - 230 VAC (120 VAC optional)
 - 250 W/h (40° C), 500 W/h (60° C)
 - Class 1, hard grounded ≤0,5% RH can be reached with drying unit U-5003
 - +/- 0,8 % RH, +/- 0,3°C
 - 40° C, +/- 2° C

Technical data type 4 display

Settings

- ✓ Language Menu
- Nominal Value Humidity
- Humidity Alarm
- ✓ Delay Humidity Alarm
- Nominal Value Temperature (in combination with heater)
- Temperature Alarm (in combination with heater)
 Delay Temperature Alarm (in combination with heater)
- ✓ Sensor Offset
- Password Protection
- Floor Lifetime Reset Timer
- Manual Regeneration

Display

- ✓ Supply voltage (supplied by drying unit) 24 VAC/DC, 350 mA
- ✓ Input Touchscreen
- ✓ TFT Color LCD 4,3"
- ✓ Controllable Brightness
- ✓ Ethernet connection
- ✓ USB Interface for data logging purposes



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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. \checkmark
- Programmable automatic sensor test with failsafe \checkmark mode and sensor drift compensation.

Technical data dry-unit U-5000 series

- ✓ Dehumidifying performance: 120 g/h max.✓ Minimal humidity 0,2% RH
- ✓ Dehumidifying Temperature 10 60° C
- ✓ Electric supply: 230 VAC
- ✓ Dimensions (L x B x H): 487 x 487 x 150 mm
- ✓ Weight: 14 kg



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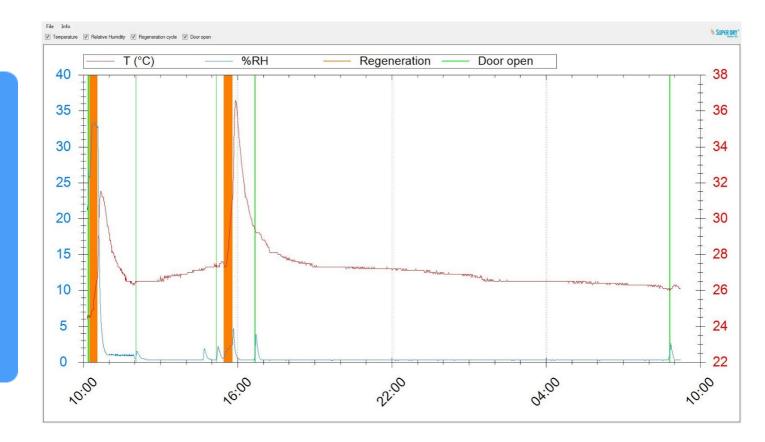






Free Totech viewer

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

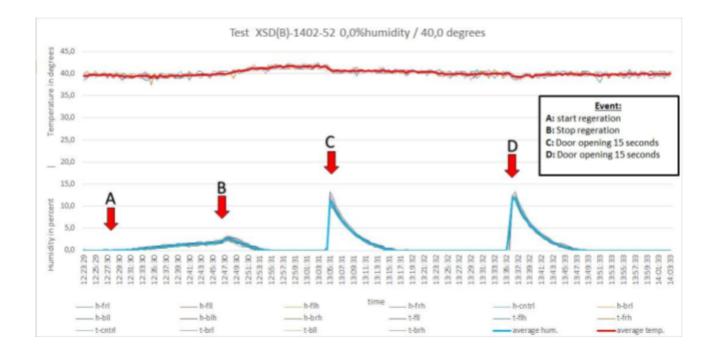


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Performance test



Test conditions

- ✓ Type of dew point sensor:
- Accuracy of dew point sensor: $\pm 0.3^{\circ}$ C at
- ✓ Location of sensors:
- ✓ Ambient conditions:
- ✓ Door openings:
- 9x Hygroclip HC2A-S
- : ± 0,3° C at + 20° C (+ 68° F)
- Every corner + center
 - Hum. 50 \pm 5% rH, 22°C \pm 2°C, Pressure 994 \pm 20 hPa
- 2 door openings, 15 sec.

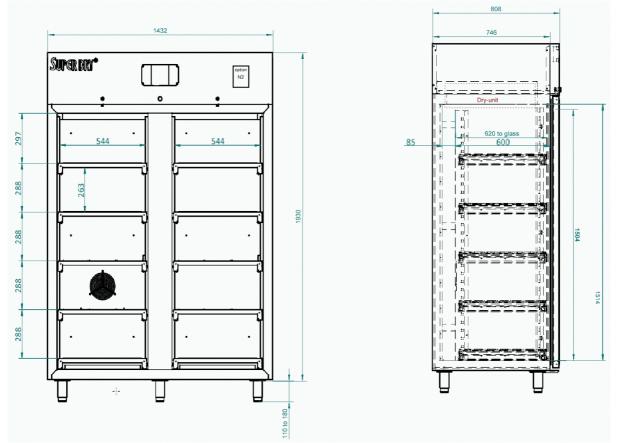
For more detailed test results, please refer to our website.

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Technical drawings



Dimensions mentioned in mm.

Shelves

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

| Number of shelves (47 | 7000: | 136) | L/R | comp | artm | ent | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-------------------------|-------|--------|--------|--------|--------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|------------|-----|
| Distance (in mm) betwee | n she | lves i | if equ | ally c | livide | d | 280 | 230 | 180 | 180 | 130 | 130 | 80 | 80 | 80 | 80 | 80 |
| Remaining space betwee | n top | shelf | and | top c | abine | et | 330 | 285 | 330 | 140 | 330 | 185 | 430 | 380 | 330 | 235 | 140 |
| L | | | | | | | | | | | | | | | | | |
| Number of shelves (47 | 7000 | 140) | L/R | comp | artm | ent | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| Distance (in mm) betwee | n she | lves i | if equ | ally c | livide | d | 260 | 210 | 165 | 165 | 115 | 115 | 70 | 70 | 70 | 70 | 70 |
| Remaining space betwee | n top | shelf | and | top c | abine | et | 235 | 190 | 235 | 40 | 235 | 90 | 430 | 330 | 235 | 140 | 40 |
| - | | | | | | | | | | | | | | | | | |
| Number of drawers | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | L O | 11 | 12 | 13 | 3 1 | L 4 | 15 |
| Remaining space in mm | 1366 | 1270 | 1174 | 1078 | 982 | 886 | 790 | 694 | 59 | 85 | 02 | 406 | 310 | 21 | 41 | 18 | 22 |

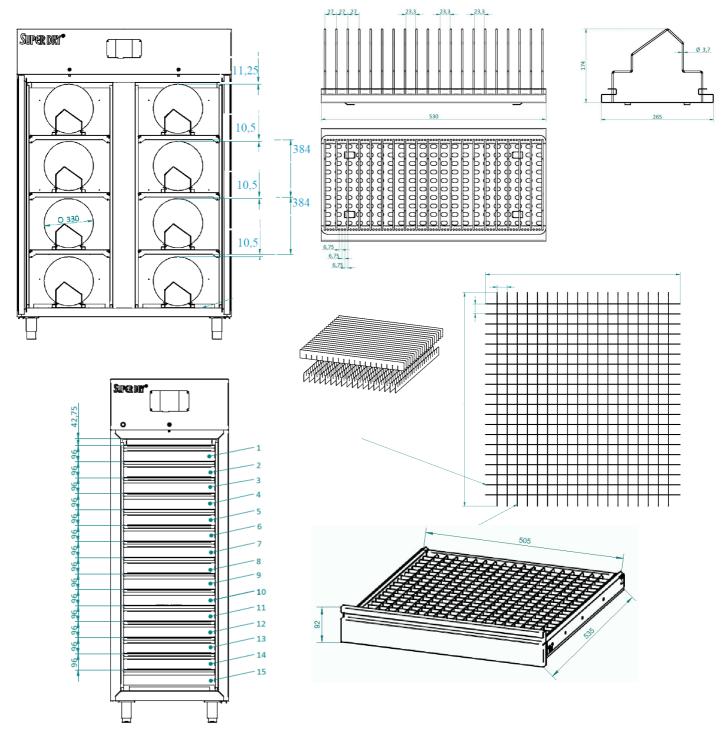
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Technical drawings



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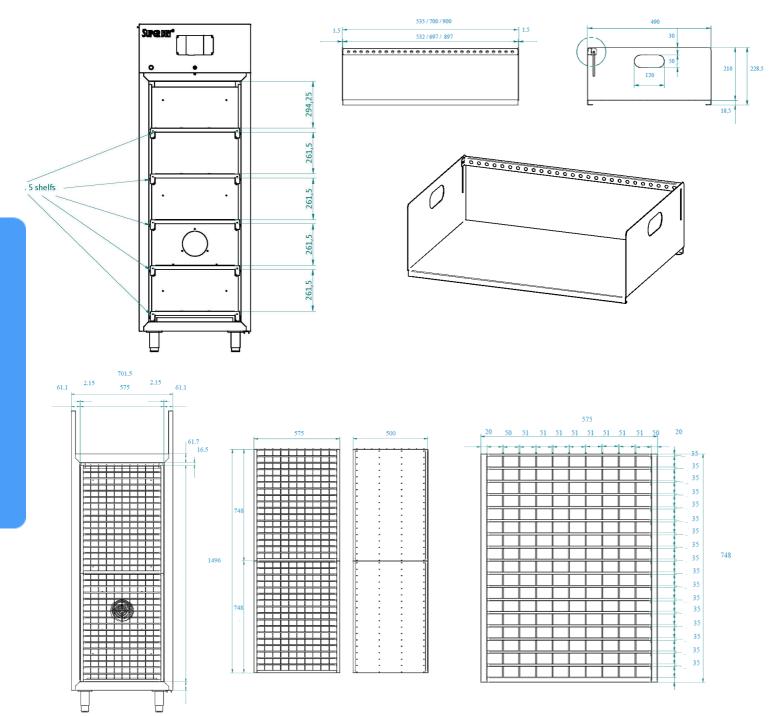




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SUPER DRY®

Technical drawings



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Options



SMD Reel rack with reel supports L x W = 530 x 265 mm incl. 18 reel supports.

Item number 20014005

Reel support Additional reel supports for 20014005.



Item number 20014201



Door release pedal

These foot pedals enable you to open the doors keeping your hands free.

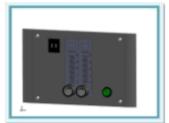
Item number 47000146



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 pocess is realised by using nitrogen (N^2), which is added automatically after the doors have been closed. (by means of adjustable timer function).

Item number 22613000

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Options



Additional shelves Stainless steel shelf without rollers.

Item number 47000136

Additional sliding shelves Stainless steel sliding shelf on metal rollers, 100% extractable



Item number 47000140

Drawer Stainless steel drawer



Item number 47000127

Divider system drawer Stainless steel divider system which enables you to create

compartments with a minimum measurement of +- 2,5 x 2,5 cm or a multiple of 2,5 cm. A standard set contains 5 long strips (553 mm) and 5 short strips (502 mm).

Item number 4700129



Cover plate for XSD shelves Prevent small items to fall through

Item number 47000132

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Options



Honeycomb system

Flexible stainless steel storage system for IC Tubes components and PCB's. The width of the compartments is adjustable before installing the system in the cabinet. The number of compartments variates from 17 till 170. In total 4 systems can be installed in a cabinet.

Item number 20050100

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

| | MSL Contri | of Cito | nt a | 2.00.0 | a | |
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MSL 2.0 software for 1000 components

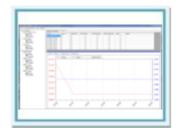
Software solution for the monitoring of moisture sensitive components and their MSL states during storage and processing in the production. The exact drying state individually for each component is monitored and displayed with the software. One of the possibilities is that it can read out multiple HC2A-S 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

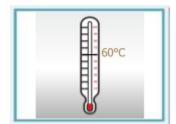
Item number 200174502



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



Upgrade for 60°C Heater 60°C for XSDB

Item number 21001505

Touchscreen display 7 inch Bigger 7" touchscreen display

Item number 30022222

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