



Drying Cabinets and Vacuum Machines for Moisture Sensitive Components



Content



Our cabinets are esd-safe



Very environmental-friendly



Jos Brehler
CEO Totech Europe B.V.

We are very pleased to welcome you to our newest brochure, and to show you the many new innovations that have been introduced in our new product line-up, much of which is German engineered and manufactured. During the past 5 years Totech Europe has grown into a global market leader, supplying MSD management solutions to many well-

known companies with whom we have worked closely to extend our technology. We also provide custom designs to meet special applications and invite you to contact us with any special requirements you might have.

Our development efforts have produced new levels of drying performance but also environmentally responsible products such as our XSD & XSDB series.

The control and management of moisture sensitive components and PCB's in today's industry is a fast changing challenge. Super Dry by Totech is here to help you meet that challenge head on.



Page	RH 0,5%	RH <5%	N ²	Room-temp.*	40°C	60°C
3 SDB-Series		✗	✗	✗		
4 SD-Series		✗	✗	✗	✗	
6 HSD-Series	✗		✗	✗		
8 MSD-Series	✗		✗	✗	✗	
9 Custom-made cabinets	✗	✗	✗	✗	✗	✗
10 XSD & XSDB-Series	✗		✗		✗	✗ XSDB XSDB XSD
12 ESDA Acrylic-Series		✗	✗	✗		
13 SDF / XSD-Series		✗	✗	✗	✗	✗
14 SDV-Vacuum Machines		✗	✗			
16 Product advantages						
17 Optional Accessories for all cabinets						
18 ESD & Cleanroom products						
19 Reference tables of the cabinets						

✗ Standard

* without temperature adjustment, Ø-room temperature: 25°C

✗ Optional available

Dry storage cabinets SDB-Series Wide choice at low prices.

Storage < 5% RH	Drying 1 - 2% RH*	Room temp. Ø 25°C
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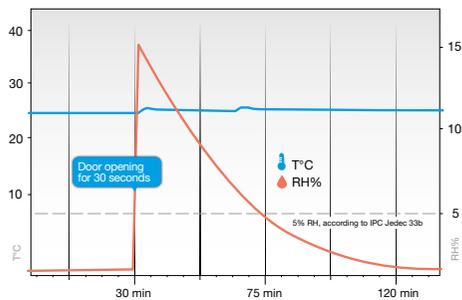
* Depending on amount of dooropenings



Our Super Dry Basic storage cabinet Series combines 3 different sizes with patented drying technology. Specially designed for Dry Storage < 5% RH in conformity with IPC. These cabinets do not have door or humidity alarm and will be delivered with painted ESD shelves.

Options:

- no further options available



SDB 1104, 1106

SDB 151-21

Ext. dimensions (whd): 500 x 630 x 580 mm
Int. dimensions (whd) (excl. dry unit): 490 x 560 x 530 mm
Effective capacity: 145 l
Weight: 29 kg
Number of shelves: 3
Drying unit: 1 x U-2000 for 1 - 2% RH*
Power consumption: 21 W/h



SDB 1104-21

Ext. dimensions (whd): 1200 x 1840 x 670 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 155 kg
Number of shelves: 5
Drying unit: 1 x U-2000 for 1 - 2% RH*
Power consumption: 21 W/h



SDB 1106-21

Ext. dimensions (whd): 1200 x 1840 x 670 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 160 kg
Number of shelves: 5
Drying unit: 1 x U-2000 for 1 - 2% RH*
Power consumption: 21 W/h



* Depending on amount of dooropenings

Control panel with operation field of the 21-Series



(These cabinets cannot be equipped with N2 or Heater)

Dry storage cabinets SD-Series

Storage < 5% RH	Drying 1 - 2% RH*	Room temp. Ø 25°C	Temperature 40°C (optional)	Nitrogen optional
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* Depending on amount of dooropenings

Optimal protection with minimal deployment. User-friendly operation and compact construction guarantee safe and reliable storage requirements.

MADE IN ASIA



The cabinet of the SD-Series is equipped with a patented drying unit. This achieves a low humidity of < 5% RH. Humidity, temperature and alarm function are shown and can be adjusted on a digital display. The circulation of the air in the cabinet is regulated through a door automatic. All surfaces are painted in a conducted way and in conformity with current ESD standards. These series were developed for a medium to long-term storage to avoid damages of humidity and oxidation.

Ext. dimensions: 500 x 630 x 580 mm
Int. dimensions (whd) (excl. dry unit) : 490 x 560 x 530 mm
Effective capacity: 145 l
Weight: 29 kg
Number of shelves: 3
Drying unit: 1 x U-2000 for 1 - 2% RH*
Power consumption: 31 W/h

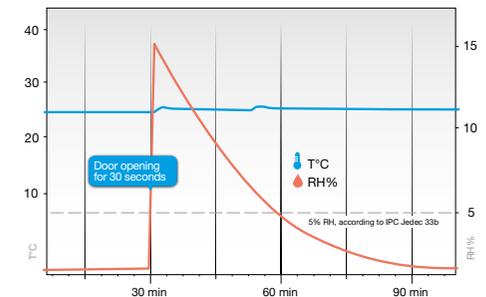
SD 151-21

Ext. dimensions: 500 x 1230 x 640 mm
Int. dimensions (whd) (excl. dry unit) : 490 x 1160 x 590 mm
Effective capacity: 340 l
Weight: 60 kg
Number of shelves: 7
Drying unit: 1 x U-2000 for 1 - 2% RH*
Power consumption: 31 W/h

SD 302-21

Ext. dimensions: 880 x 900 x 740 mm
Int. dimensions (whd) (excl. dry unit) : 870 x 830 x 690 mm
Effective capacity: 500 l
Weight: 60 kg
Number of shelves: 3
Drying unit: 1 x U-2000 for 1 - 2% RH*
Power consumption: 31 W/h

SD 502-21



SD 151, 302, 502

* Depending on amount of dooropenings

Dry storage cabinets SD-Series

Storage < 5% RH	Drying 1 - 2% RH*	Room temp. Ø 25°C	Temperature 40°C (optional)	Nitrogen optional
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* Depending on amount of dooropenings

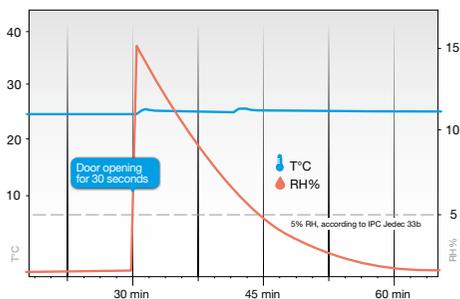


Included:

- Door & RH alarm
- Chrome steel shelves
- Pre mounted holes for heater & auto flow system
- 2 dry units (SD 1106, SD 1104)
- ESD wristband
- Earth plug

Options:

- Shelves
- Adjustable legs
- Automatic nitrogen unit with door contact switch
- Two-colour alarm lights
- Datalogging through network, incl. software **
- Optional accessories



SD 1104, 1106

SD 702-21

Ext. dimensions: 620 x 1840 x 780 mm
Int. dimensions (whd) (excl. dry unit): 610 x 1560 x 730 mm
Effective capacity: 700 l
Weight: 110 kg
Number of shelves: 5
Drying unit: 1 x U-2000 for 1 - 2% RH*
Power consumption: 31 W/h

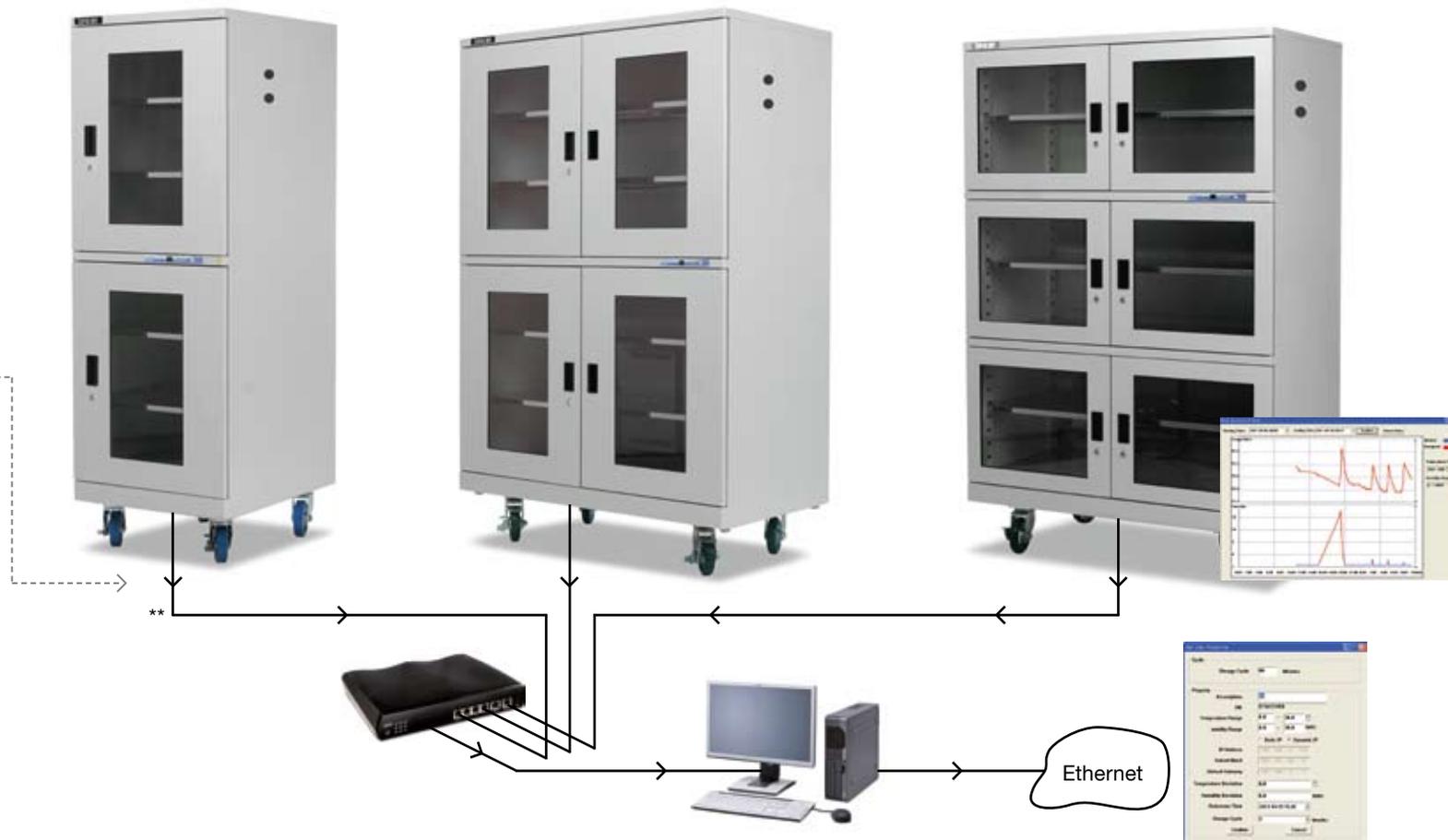
SD 1104-21

Ext. dimensions: 1200 x 1840 x 670 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 155 kg
Number of shelves: 5
Drying unit: 2 x U-2000 for 1 - 2% RH*
Power consumption: 62 W/h

SD 1106-21

Ext. dimensions: 1200 x 1840 x 670 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1560 x 620 mm
Effective capacity: 1160 l
Weight: 160 kg
Number of shelves: 5
Drying unit: 2 x U-2000 for 1 - 2% RH*
Power consumption: 62 W/h

* Depending on amount of dooropenings



Drying cabinet HSD-Series

Drying 0.5% RH	Average drying conditions / day 1% RH	Room temp. Ø 25°C	Nitrogen optional
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Our HSD Series combines a large choice of various cabinet sizes with high achievement (very fast recovery time) drying technology. Category: Very good – our practice test winner for your production.

MADE IN GERMANY



Control panel with operation field of the 52-Series



Included

- Height adjustable and sliding shelves
- Lockable doors
- Drying unit U-5000 Series, < 0.5% RH
- Precision sensor (Rotronic)
- Door and humidity alarm
- Control panel with operation field
- Humidity and temperature report
- RS 232 interface for guarding online data
- ESD-safe design
- 4 Transport castors/ 4 Feet
- Integrated data logger (optional software needed to read it)

Ext. dimensions (whd): 610 x 820 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 600 x 600 x 660 mm
Effective capacity: 240 l
Weight: 55 kg
Number of shelves: 2 sliding shelves
Dry unit: 1 x U-5002 for < 0.5% RH
Power consumption: 30 W/h

HSD 241-52

Ext. dimensions (whd): 610 x 1100 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 600 x 880 x 660 mm
Effective capacity: 350 l
Weight: 70 kg
Number of shelves: 2 sliding shelves
Dry unit: 1 x U-5002 for < 0.5% RH
Power consumption: 30 W/h

HSD 351-52

Ext. dimensions (whd): 610 x 1380 x 670 mm
Int. dimensions (whd) (excl. dry unit) : 600 x 1170 x 660 mm
Effective capacity: 470 l
Weight: 80 kg
Number of shelves: 3 sliding shelves
Dry unit: 1 x U-5002 for < 0.5% RH
Power consumption: 30 W/h

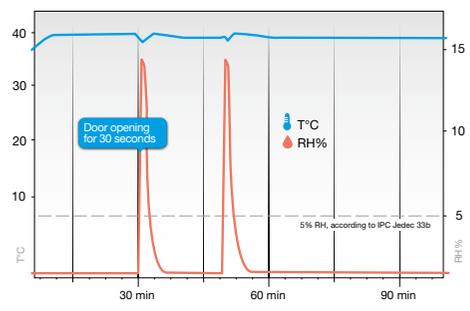
HSD 472-52

Drying cabinet HSD-Series

Drying 0.5% RH	Average drying conditions / day 1% RH	Room temp. Ø 25°C	Nitrogen optional
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The HSD cabinet is especially characterized by its fast back drying, the precision sensor, and its reliable control unit. The dynamic drying unit U-5000 Series guarantees a fast drying and regeneration adapted to the number of its opening cycles. Therefore it is very suitable for operation with frequent approach. The maximum dryness is around < 0.5% RH and provides optimal storage conditions for your materials.



HSD 702-52

Ext. dimensions (whd): 610 x 1950 x 670 mm
Int. dimensions (whd) (excl. dry unit): 600 x 1730 x 660 mm
Effective capacity: 700 l
Weight: 90 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5002 for < 0.5% RH
Power consumption: 30 W/h

HSD 1404-52

Ext. dimensions (whd): 1240 x 1950 x 670/780 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1740 x 660 mm
Effective capacity: 1400 l
Weight: 180 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5002 for < 0.5% RH
Power consumption: 30 W/h

HSD 1406-52

Ext. dimensions (whd): 1240 x 1950 x 670/780 mm
Int. dimensions (whd) (excl. dry unit): 1190 x 1740 x 660 mm
Effective capacity: 1400 l
Weight: 180 kg
Number of shelves: 5 sliding shelves
Dry unit: 1 x U-5002 for < 0.5% RH
Power consumption: 30 W/h



Modular drying cabinet MSD-Series

Drying 0.5% RH	Average drying conditions / day 1% RH	Room temp. Ø 25°C	Temperature 40°C (optional)	Nitrogen optional
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The cabinet that grows with your requirements. Made to size solutions are possible through modular construction.
The standard cabinet can be extended with further modular cabinets up to 6000 l.



MSD 1223 + MSD 1222-52

Ext. dimensions (whd): 840 x 2040 x 900 mm
Int. dimensions (whd): 830 x 1780 x 850 mm
Effective capacity: 1200 l
Weight: 120 kg
Number of shelves: 4 sliding shelves
No drying unit pre-installed
Power consumption: 30 W/h



Ext. dimensions (whd): 840 x 2040 x 900 mm
Int. dimensions (whd) (excl. dry unit): 830 x 1780 x 850/730 mm
Effective capacity: 1150 l
Weight: 150 kg
Number of shelves: 4 sliding shelves
Dry unit: 1 x U-5002 for < 0.5% RH
Power consumption: 30 W/h

MSD 1223-00

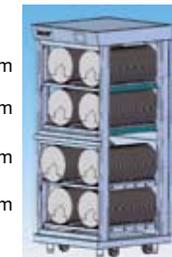
MSD 1222-52

The cabinet is characterized by its innovative modular construction and makes a step by step extension of the storage capacity in the process of cabinet construction possible. Further cabinet parts or drying units can be integrated on demand in the system of the cabinet. The conveniently arranged and user-friendly display makes a safe adjustment of the following functions possible: humidity, alarm functions and heating. The serial production of RS 232 interface makes a simple reading of the integrated Dataloggers with our software possible. Our dynamic Drying unit U-5000 makes regenerations adapted to your demands.



MSD 1222

- 50 reels / reelrack ø 330 x 8 mm
- 50 reels / reelrack ø 330 x 8 mm
- 38 reels / reelrack ø 330 x 8 mm
- 38 reels / reelrack ø 330 x 8 mm

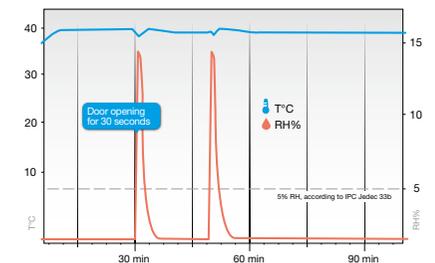


MSD 1223

- 50 reels / reelrack ø 330 x 8 mm
- 50 reels / reelrack ø 330 x 8 mm
- 50 reels / reelrack ø 330 x 8 mm
- 50 reels / reelrack ø 330 x 8 mm

Included

- Height adjustable and sliding shelves
- Lockable doors
- Drying unit U-5000 Series, < 0.5% RH
- Precision sensor (Rotronic)
- Door and humidity alarm
- Control panel with operation field
- Humidity and temperature report
- RS 232 interface for guarding online data
- ESD-safe design
- 4 Transport castors/ 4 Feet
- Integrated data logger



Custom-made cabinets

Drying 0.5% RH	Storage < 5% RH	Temperatures 25°C, 40°C & 60°C	Nitrogen optional
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MADE IN GERMANY

Our custom-made cabinets are the answer to the increased interest of our customers in individual solutions. With this modular concept we are in a position to react quickly to the wishes of our customers. By using reliable parts we guarantee a safe process also with special solutions. We are interested in low energy values and environment-friendly solutions. You have a choice in our single parts MSD / HSD and XSD. You can choose from the following components:



Equipment possibilities

- Drying unit U-5000 Series
- Computer steering with full color touch-screen Display LCD 5.7" (320x240 Pixel)
- network/ Wifi possibilities
- Control panel with operation field
- Double-walled insulation
- Heat-resistant double glazing
- Heating up to 60°C
- Electrical sliding door
- Individual cabinet sizes
- Individual Construction
- RS 232 interface for guarding online data
- Software for data processing
- Log steering with control panel etc.



Dry Tower

Insulated drying cabinets XSD & XSDB-Series

Drying 0.5% RH Average drying conditions / day 1% RH Temp. 40°C Temp. 60°C Nitrogen optional

The combination of high achievement dryer, heating and thick-walled insulation enables the XSD-Series to effect a quick drying of moist components and pcb's.



External dimensions (whd): 701,5 x 1930/2080 x 805 mm
Internal dimensions (whd): 541 x 1513 x 601 mm
Effective capacity: 456 l
Weight: 142 kg
Number of shelves: 5
Dry unit: 1 x U-5002 for < 0.5% RH
Average power consumption: 100W/h (40°C)

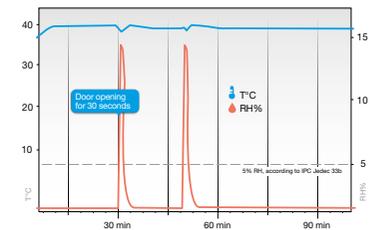
External dimensions (whd): 1433 x 1930/2080 x 800 mm
Internal dimensions (whd): 1082 x 1513 x 601 mm
Effective capacity: 1186 l
Weight: 230 kg
Number of shelves: 10
Dry unit: 1 x U-5002 for < 0.5% RH
Average power consumption: 150W/h (60°C)

XSDB 701-52/53

XSD 1402-52/53

The XSD-Series reaches humidity values of < 0.5% RH and regenerates automatically if necessary. Thanks to the double walled stainless steel body with 60 mm insulation a temperature up to 60°C is reached at the lowest consumption of energy. A central radial fan supports the drying process and provides an even temperature and humidity division in the cabinet. With the precision sensor of the firm of Rotronic the relevant process data are captured and are filed for back reference.

	XSD 53 serie	XSD 52 serie	XSDB 52 serie
Painted steel body			×
Stainless steel body	×	×	
Lockable doors	×	×	×
Heat-resistant glazing	×	×	×
Radial fan for a stable temperature profile	×	×	×
Insulated cabinet body / 60mm	×	×	×
Continuously adjustable heating up to 40°C			×
Continuously adjustable heating up to 60°C	×	×	optional
Drying unit U-5000 Series, <0,5%RH	×	×	×
Precision sensor (Rotronic)	×	×	×
ESD Safe design (also in-and outside glass)	×	×	×
Full graphic display 5,7" 53 serie, resolution (320x240pixel)	×	optional	optional
Network / Wifi possibilities	optional	optional	optional
Read out & control data on external computer or tablet / mobile phone	optional	optional	optional
Digital display 52 serie		×	×
RS232 interface for data	×	×	×
Integrated datalogger (software needed to read it)	×	optional	optional
LED Light	×	×	optional
Metal shelves on metal rollers	×	×	optional
Metal shelves on sliding rail	optional	optional	×
Height adjustable feet	×	×	×
5/10 shelves	×	×	×



Insulated drying cabinets XSD & XSDB-Series

Drying 0.5% RH	Average drying conditions / day 1% RH	Temp. 40°C	Temp. 60°C	Nitrogen optional
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MADE IN GERMANY

Equipment XSD 52/53 Series:

- Control panel with operation field of the 52-Series
- Humidity and temperature report
- Integrated data logger (optional software needed to read it for XSD 52)
- Network / Wifi possibilities
- RS 232 interface for data
- Interior lighting
- Computer steering with touchscreen Display LCD 5.7" (320x240 Pixel) just on 53-Series
- Reading of humidity and temperature for unlimited period of time just on 53-Series



Sliding shelves / LED light



Honeycomb modul for storage of IC tubes



Network / Wifi possibilities on tablet or phone



Control panel of the 53-Series

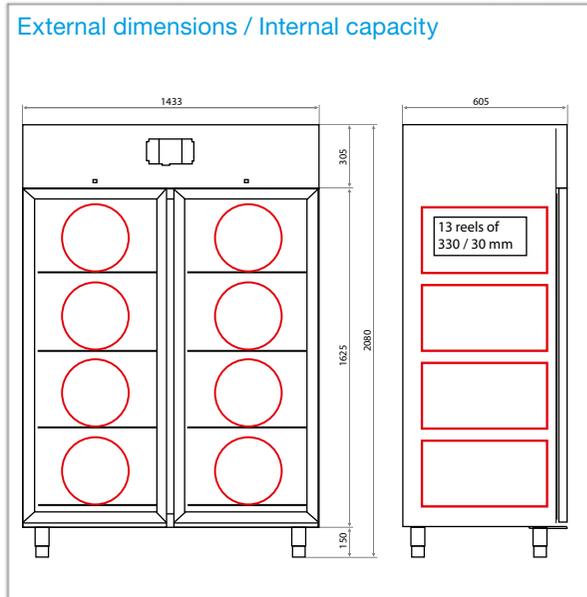
Full graphic touchscreen Display LCD 5.7" 320x240 Pixel



Control panel of the 52-Series



External dimensions / Internal capacity



Acrylic cabinets ESDA-Series

Drying 1 - 2% RH*	Storage < 5% RH	Room temp. Ø 25°C	N2 optional
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* Depending on amount of dooropenings

Our acrylic cabinet series offers conveniently arranged storage possibilities with low humidities. Installation of an optional nitrogen or drying unit is available.

Control panel with operation field of the 21-Series



External dimensions (whd): 574 x 750 x 517 mm
Internal dimensions (whd): 560 x 730 x 480 mm
Effective capacity: 200 l
Weight: 30 kg
Number of shelves: 2
Available with U-4000 Dry unit, continous drying
No control panel

ESDA 201

External dimensions (whd): 574 x 1690 x 517 mm
Internal dimensions (whd): 560 x 1480 x 480 mm
Effective capacity: 400 l
Weight: 50 kg
Number of shelves: 5
Drying unit: U-2000 for 1 - 2% RH*
Power consumption: 21 W/h

ESDA 402

External dimensions (whd): 1152 x 1690 x 517 mm
Internal dimensions (whd): 1120 x 1480 x 480 mm
Effective capacity: 800 l
Weight: 100 kg
Number of shelves: 10
Drying unit: U-2000 for 1 - 2% RH*
Power consumption: 21 W/h

ESDA 804



Our ESDA-Series is suitable for storage under controlled atmosphere. This can be achieved through a nitrogen-unit and / or installation of our drying unit.

Included:

- Door alarm & RH alarm included
- Chrome steel shelves
- Pre mounted holes for nitrogen unit
- 1 dry unit
- ESD wristband
- Earth plug

Options:

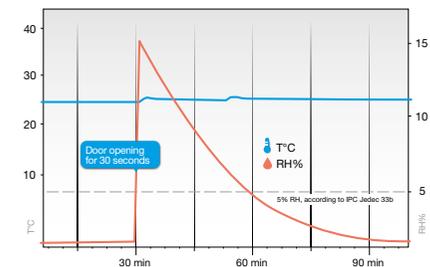
- Shelves
- Adjustable legs
- Automatic nitrogen unit with door contact switch
- Two-colour alarm lights
- Datalogging through network, incl. software **
- Optional accessories



N2 Auto Purge system



Nitrogen unit



* Depending on amount of dooropenings

** see page 5

Drying Cabinet for feeder systems

The cabinets of the SDF and XSD-Series are equipped with high performance dryers and are suitable for storage in between of complete feeder systems. **Special sizes on application.**

Drying* 1% RH	Room temp. Ø 25°C	Temperature to 40°C & 60°C (optional)	Nitrogen optional
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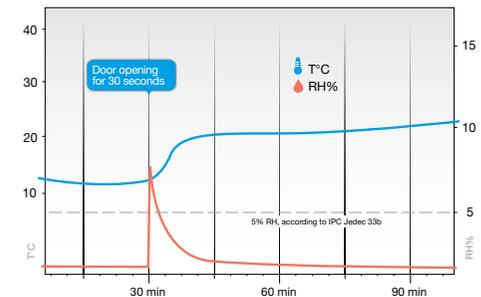
* <5% RH SDF, 1% RH XSD



Feedersystem XSD

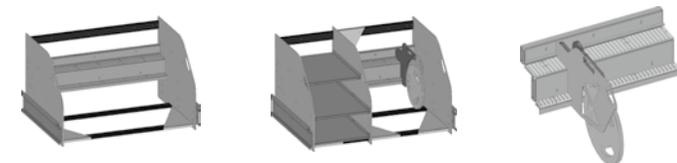


The feeder cabinets achieve a very low humidity level of up to 1% RH and are suitable for storage in between of feeder (trolley) systems. The internal life of the cabinets is especially geared to its feeder system. With this the upper part of the cabinet can be fitted with shelves. The XSD-Series can be supplied with Touchscreen Display, Heating (up to 60°C) and dynamic Drying unit U-5000 series.



External dimensions (whd): 1200 x 1840 x 960 mm
 Internal dimensions (whd): 1190 x 1560 x 910 mm
 Effective capacity: 1700 l
 Weight: 197 kg
 Dry unit: 2 x U-2000 for <5% RH
 Power consumption: 62 W/h

SDF 1704-21



Different feeder racks available:
 Siplace, Europlacer Assembleon, Fuji, Juki etc.

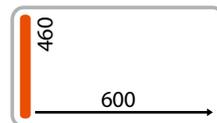
Vacuum Machines SDV 46

Our ESD vacuum machine series is particularly suitable for being used in ESD protected sections. The controlled reduction of humidity and oxygen content serve to ensure safe storage and transport conditions. Ideally suitable for the packaging of moisture-sensitive materials.



Int. dimensions (whd): 650 x 210 x 475 mm
Sealing length: 460 mm
Vacuum pump: 21 m³/h
Weight: 95 kg
Digital steering Z-3000 (sensor controlled)

Sealing length



Control Display Z3000 / (Model Z-2000, Time Controlled)

Our sensor control has been equipped with a vacuum sensor, and allows for the accurate setting of important parameters. Humidity and oxygen content can be reduced in a controlled manner. 99 program memories facilitate your packaging result's reproducibility and ensure easy handling and operation.



ESD Safe

Our machines have been equipped with acrylic covers. All surfaces are electrically conductive. Critical surfaces have been coated with dissipative plastics, and feature a bleeder resistance of 1-6 Ohm/sq, compliant with the ESD standard.



Nitrogen

Optionally, a nitrogen unit may be installed to facilitate the packaging of materials, which are vulnerable to oxidation or of pressure-sensitive nature. The additional reduction of oxygen content and diffusion rate are ideal for long-term storage.



IPC Conform

The construction & control system are based on the IPC regulation



SDV 46

Vacuum Machines SDV-Series

Storage < 5% RH Temp. 25°C Nitrogen optional

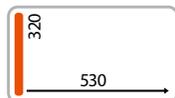
The ideal combined action of vacuum chamber, heating system, and vacuum pump characterizes this apparatus.

Dependent on the size of the machine trays, sticks and reels can be packed in conformity with the "IPC norm Jedec 033B". All models are available in ESD Design, with Nitrogen Unit, and Under Carriage. In case you are interested in consumer materials such as drying means, humidity indicators or moisture barrier bags, go to our webshop, www.totech-superstat.com



Int. dimensions (whd): 580 x 125 x 350 mm	Int. dimensions (whd): 450 x 210 x 460 mm	Int. dimensions (whd): 450 x 210 x 460 mm	Int. dimensions (whd): 650 x 210 x 475 mm	Int. dimensions (whd): 650 x 210 x 475 mm
Sealing length: 320 mm	Sealing length: 420 mm	Sealing length: 420 mm	Sealing length: 460 mm	Sealing length: 460 mm
Vacuum pump: 10 m ³ /h	Vacuum pump: 16 m ³ /h	Vacuum pump: 16 m ³ /h	Vacuum pump: 16 m ³ /h	Vacuum pump: 21 m ³ /h
Weight: 60 kg	Weight: 69 kg	Weight: 70 kg	Weight: 92 kg	Weight: 95 kg
Digital steering Z-2000 (timer controlled)	Sensor steering Z-2000 (timer controlled)	Sensor steering Z-3000 (sensor controlled)	Digital steering Z-2000 (timer controlled)	Digital steering Z-3000 (sensor controlled)

SDV 26



Sealing length



100 x 660 mm

SDV 36 basic



250 x 500 mm

SDV 36

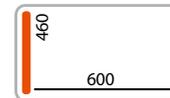


420 x 440 mm



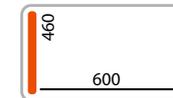
420 x 540 mm

SDV 46 basic



Moisture Barrier Bags
Humidity Indicator & Desiccant

SDV 46



Advantages Totech cabinets SUPER DRY®

- Drying time (example)
- Recoverytime after door opening
- Accuracy of Sensor RH% & T°C
- Accuracy of Temperature
- User Friendly Handling

• ESD features

- Datalogging
- Online read out
- RH% Setting & Stability
- Internal illumination
- Door & humidity alarm buzzer
- Energy saving consumption

• Specification

XSD 701-53 XSD 1402-53

- Level 3 component < 1,4mm = 18 hours, (60°C / 1%RH)
- < 4 minutes
- 1% / ± 1°C (Rotronic)
- ± 2°C
- Full color multilanguage touchscreen display

- Conductive windows and stainless steelbody
- Endless
- Online readout RJ45 ethernet connection/ Wifi
- All settings possible & stable read out
- LED Standard
- Standard
- Due to 800 Watt/h and 60 mm double PUR Insolation & dynamic dry unit
- Fast drying



XSDB 701-52 XSDB 1402-52

- Level 3 component < 1,4mm = 18 hours, (40°C / 1%RH)
- < 6 minutes
- 1% / ± 1°C (Rotronic)
- ± 2°C
- Display multi language, 5 menu's & up and down button
- Conductive windows and painted steelbody
- Standard 2000 measuring points
- RS232 Standard
- All settings possible & stable read out
- Optional
- Standard
- Due to 800 Watt/h and 30 mm double PUR Insolation & dynamic dry unit
- Fast drying



Competitors

- Level 3 component < 1,4mm = (25°C / 5%RH) 16 days
- < 1 hours
- 3% / ± 1°C
- ± 10°C
- Only up & down button
- No ESD for windows and paint
- Not standard, available as option
- Not standard, available as option
- No settings or not stable read out
- Not available
- Not standard
- No or poor insolation & no dynamic dry unit
- Not in programm

MSD / HSD

- Level 3 component < 1,4mm = 8 days, (25°C / 1%RH)
- < 6 minutes
- 1% / ± 1°C (Rotronic)
- ± 5°C
- Display multi language, 5 menu's & up and down button
- ESD metal painted body also window ESD safe
- Standard 2000 measuring points
- RS232 Standard
- All settings possible & stable read out
- Not available
- Standard
- Dynamic dry unit
- Fast drying, MSD can grow with your needs



SD / ESDA Serie

- Level 3 component < 1,4mm = 13 days, (25°C / 3%RH)
- < 45 min
- 3% / ± 1°C
- ± 5°C / ESDA (no heater)
- Up en down settings, calibration as well as alarm settings
- Dissipative body also window ESD safe
- Available as option
- Available as option RJ45 ethernet connection
- All settings possible & stable read out
- Not available
- Not standard
- N/a
- Stable dry unit



Competitors

- Level 3 component < 1,4mm = (25°C / 5%RH) 16 days
- < 1 hours
- 3% / ± 1°C
- ± 10°C
- Only up & down button
- No ESD for windows and paint
- Not standard, available as option
- Not standard, available as option
- No settings or not stable read out
- Not available
- Not standard
- No or poor insolation & no dynamic dry unit
- Not in programm

General options and accessories for all cabinet series



Shelves



Separation elements



External alarm lights



Door alarm



Height adjustable feet



ESD wheels



SMD reel holders



SMD reel holder extendable



SMD reel holder on extendable shelf



Various data loggers



High accuracy sensor



Nitrogen unit



N2 Auto Purge system



Calibration apparatus



Various steering devices



Cover Plate



Feeder system



RS 232 interface



U-7000



U-5002



Double Glazing



Heater 40°C



Heater max. 40°C



A leader in ESD & Cleanroom safety, with a broad depth of products.

We have all the static control products you will need to outfit your static safe environments and Cleanroom Areas.

You will see that we will have many opportunities for innovative new products, including a wider offering of static control and cleanroom products.

We Aim for the following:

- Customer Satisfaction
- Quality Products
- Very Competitive Pricing
- Innovation
- Highly Motivated and Specialist Team
- Long Term Relationships with Customers
- Maximum Availability
- Respect Delivery Terms



Our ESD product offering

- ESD Flooring
- ESD Workstations
- Personnel Grounding
- ESD Garments
- ESD Table Mats
- Cleanroom Wipes
- Cleanroom Garments
- ESD Packaging Materials
- ESD Handling and Storage
- ESD Foams
- ESD Test and Measurement
- ESD Brushes
- Cleanroom Accessories
- Kapton tapes
- ESD Paper
- ESD Office Equipment
- ESD Service Equipment
- ESD Tapes
- ESD Gloves
- Cleanroom Masks
- ESD Shoes



Reference Table Drying cabinets

Our reference table offers you a survey of the drying times of your components. Please read it dependent on component strength, MSL Level, temperature and humidity Level.

Body Thickness

Level	Drying at 1% RH (MSD, HSD, HSDi & XSD-Series)			Drying at 2% RH (SDB, SD & SDA-Series)		**Drying at 5% RH	
	25°C 1% RH	40°C 1% RH	60°C 1% RH	25°C 2% RH	40°C 2% RH	40°C 5% RH	90°C 5% RH

Thickness ≤ 1,4 mm

2a	5 days	2 days	12 hours	7 days	3 days	5 days	23 hours
*3	8 days	3 days	18 hours	12 days	5 days	8 days	33 hours
4	9 days	4 days	24 hours	13 days	6 days	9 days	37 hours
5	10 days	5 days	30 hours	14 days	7 days	10 days	41 hours
5a	10 days	6 days	36 hours	15 days	9 days	10 days	54 hours

Thickness > 1,4 mm ≤ 2,0 mm

2a	22 days	10 days	2 days	30 days	15 days	22 days	3 days
3	23 days	11 days	2 days	35 days	16 days	23 days	4 days
4	28 days	14 days	3 days	40 days	17 days	28 days	5 days
5	35 days	16 days	4 days	50 days	24 days	35 days	6 days
5a	56 days	18 days	4 days	67 days	27 days	56 days	8 days

Thickness > 2,0 mm ≤ 4,5 mm

2a	67 days	20 days	5 days	80 days	30 days	67 days	10 days
3	67 days	22 days	5 days	80 days	31 days	67 days	10 days
4	67 days	22 days	5 days	80 days	31 days	67 days	10 days
5	67 days	22 days	5 days	80 days	31 days	67 days	10 days
5a	67 days	22 days	5 days	80 days	31 days	67 days	10 days

* according 100TQFP-Test
(Semiconductor Device (100TQFP)
Dehumidifying Property)

** according to IPC J-STD-033B





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