



SDR-52 Dry Room









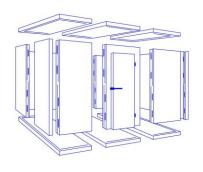
Outstanding performance

The SDR-52 dry room has an outstanding performance for drying moisture sensitive components, PCB's and other moisture sensitive products.

The 5000 series Dynamic Drying Unit reaches very reliable, low humidity values of 0.5% RH and automatically regenerates when necessary.

Regeneration times are reduced due to the closed loop control of the Dry Unit which automatically responds to atmospheric change and frequent door openings.

The relevant process data is obtained by use of an accurate Rotronic sensor. Data can be exported from the cabinet via RS232 with optional software.







Totech Europe BV De Linge 28 NL-8253 PJ Dronten www.totech.eu.com Phone: +31 (0) 321 330239 Fax: +31 (0) 321 330254 K.v.K: Lelystad 390 86417 E-Mail: info@totech.eu.com





Features

- User friendly handling
- ESD features
- Insulation
- Body
- Data logging
- Online read out
- Door & humidity alarm buzzer
- Flooring
- Lockable doors
- U 5000 series Drying Unit
- Rotronic sensor
- Power supply

- Display with easy menu structure
- Different materials can be requested. Static safe 10¹² Ohm/sq, conductive 10⁶ Ohm/sq or even hard grounded
- 80 mm sandwich polyurethane construction
- Painted in white steel plated RAL 9010
- Integrated data logger over Sensor with standard 2000 measuring points (optional software is required)
- RS 232 interface for data (optional software is required)
- Longer door openings are detected, high RH levels are detected
- 80 mm flooring, delivered with 1.5 mm stainless steel, anti-slip pressure plate
- Every door can be locked individually with a key
- < 0.5% RH, made in Germany
- Precision sensor, accuracy +/- 0.8 % RH, +/- 0.3°C
- 5 meter power cord with IEC plug

Benefits

- Recovery time after door opening
- Temperature stability
- Temperature setting
- Energy saving consumption
- Network
- IPC
- European Quality
- Maintenance
- Panel construction
- Shelves
- Trolleys
- Flooring

- < 60 minutes to below 1% (with 1 door opening)
- An even temperature throughout the drying cabinet as a result of the use of a radial fan and an insulated sandwich construction 0.24 Watt/m2 K according to DIN 52612 (If heater is installed). Accuracy +/- 2%
- Heating up to 60°C (if heater is installed)
- As a result of a Dynamic Dry Unit, sandwich construction with insulating 80 mm polyurethane
- Optional
- According to IPC/JEDEC-JSTD 033C and IPC-1601
- Made in Germany
- Easy to service, low maintenance
- Different sizes of panel available
- Possible to add shelving
- Different sizes of trolleys available
- Different pressure plates available (heavy duty weight)



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Technical Data Cabinet

• Dimensions:

• Electric supply:

Power consumption:

Protection class:

Humidity level cabinet:

Sensor accuracy:

Temperature accuracy:

Different sizes available 230 V AC (120 V AC optional)

30 W/h (without heater)

Class 1, hard grounded

<0.5 % RH can be reached with U 5002 Drying Unit

+/- 0.8 % RH, +/- 0.3°C

60° C, +/- 2° C (if heater is installed)

Technical Data 52 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
- Door Alarm
- Interlocking
- Manual Regeneration

SUPER DRY® Totech ON SET — + Made in Germany

Display:

- Voltage supply (supplied by drying unit) 24 VAC/DC
- 4 input function keys (tactile-touch keys)
- Display 61 x 33 mm, white, controllable backlight, adjustable contrast
- SUB-D plug ("universal" 9-wire standard serial cable)
- Power consumption at 24 VDC, 40 mA

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Technical Data Rotronic Sensor HC2-S



Based on the Airchip 3000 Technology, 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.
- Data recording of up to 2000 relative humidity and temperature value pairs.
- Programmable automatic sensor test with fail safe mode and sensor drift compensation.

Technical Data U 5000 Dry Unit series

- Dehumidifying performance: 120 g/h max.
- Minimal humidity: 0.2% RH
- Dehumidifying Temperature: 10 60° C
- Electric supply: 230 VAC (120 VAC available)
- Dimensions (L x B x H): 487 x 487 x 150 mm
- Weight: 14 kg



Technical Data U 7000 Dry Unit (optional)



Technical performance data applies for the transfer of air with 20°C and 60% RH

- Dehumidifying performance: 1.6 kg/h
- Minimal humidity 2% RH
- Process air mixture continuously adjustable to max.: 300 m³/h
- External compression: 150Pa
- Fitting supports for process air 2x 160 mm
- Regeneration air mixture adjustable to max.: 65 m³/h
- External compression: 70 Pa
- Electric supply: 230 V AC, 50/60 Hz, 2,1 KW
- Dimensions (L x B x H): 524x 450x 480 mm
- Fitting supports for air regeneration: 2x 120 mm
- Weight: 38 kg

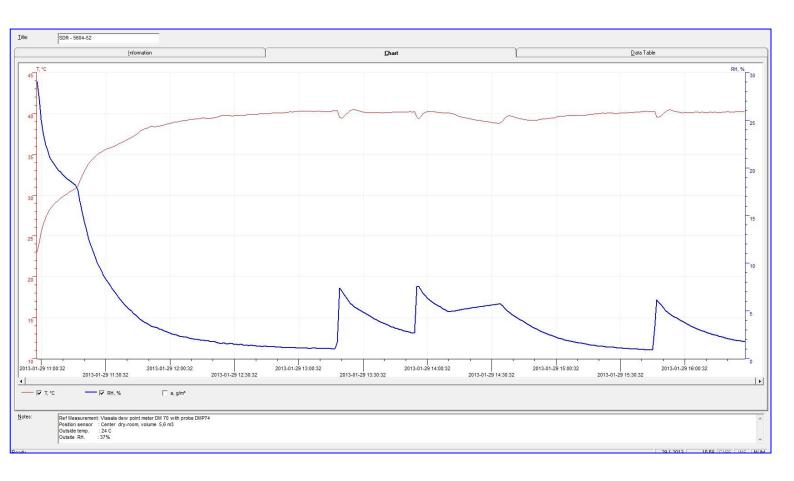


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Performance test



Test conditions



Instrument: Type of dew point sensor: Accuracy of dew point sensor: Location of sensor: Ambient conditions: Door openings:

Vaisala. Vaisala drycap 180M ± 0.2° C at + 20° C (+ 68° F) In the direct surrounding of cabinet sensor Humidity $50 \pm 5\%$ RH, $25^{\circ} \pm 2^{\circ}$ C, Pressure 994 ± 20 hPa. 2 door openings, 15 sec. (average RH 0.70%)

V.A.T.: NL813341887B01

B.I.C./Swift: RaboNL2U

Bank: 1456.83.443



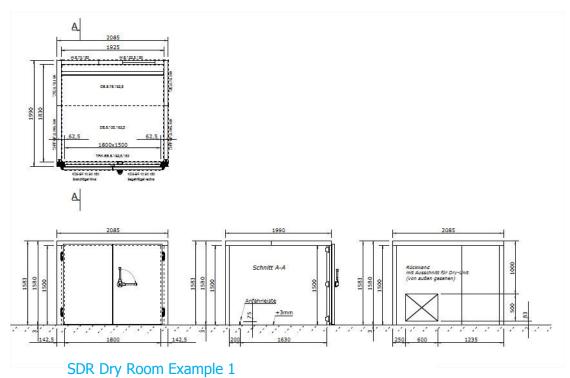
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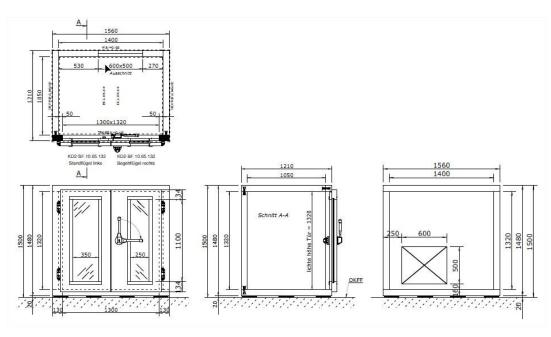




Technical Drawings

SDR-52





SDR Dry Room Example 2

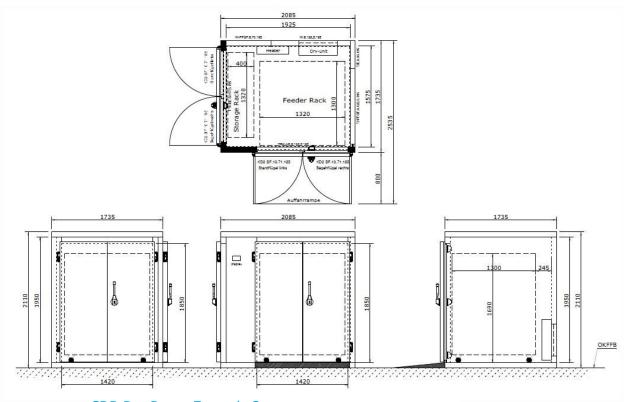


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Options



Humdidity alarm signal lamp

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

Item number orange/green 20016030.



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 (N²), which is added automatically after the doors have been closed (by means of adjustable timer function).

Item number 22613000.



N2 Flow System

The Flow System is developed for use in combination with a Totech drying cabinet. The apparatus is used for adding nitrogen (N²).

Item number 20010020



HygroClip 2

Probe with maximum accuracy for all climate measurements

Item number 470000027

Exchange calibrated sensor:

Item number 47000040



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Humidity calibrator Hygropalm 22

Precision measuring device for calibrating sensors

Set includes hygroclip sensor, extension cable and transport case (KIT): Item number 20001019

Hygropalm and hygroclip only: Item number 20001016



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Options



Rotronic datalogger set

Including HW4-E-V3 Software and Cable AC3006

Item number 47000580



MSL basic software control

Software solution for the monitoring of moisture sensitive components and their MSL state during storage and processing in production. The exact drying state for each component is individually monitored and displayed. Provides complete traceable history for each component up to final processing. The evaluation of the drying conditions is based on the requirements of IPC / JEDEC J-STD-033C.

Item number 200174500



MSL basic software control upgrade

Upgrade to the basic software for monitoring of another storage facility, (dry cabinet, dry room).

Item number 200174502



HW4-E data logging software

Standard edition for use with 1 cabinet. Rotronic HW4 is a process oriented, validated software for use with the Rotronic line of digital humidity-temperature instruments.

Item number 47000034



HW4-P data logging software

Professional edition for use with multiple cabinets. Rotronic HW4 is a process oriented, validated software for use with the Rotronic line of digital humidity-temperature instruments.

Item number 47000031

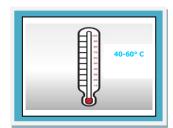


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Options

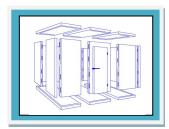


Upgrade 40-60° C Heater 40-60° C for SDR



U-7000 Dry Unit

Item number 30021500



Panel construction

The panels can be supplied in different materials. Standard in RAL white 9002

Options are:

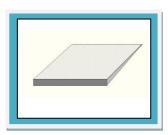
- Both sides same RAL color
- Both sides stainless steel
- Inside stainless steel, outside RAL color or the opposite
- ESD grounding according to IEC-61340-5-1



Flooring

Standard 80 mm flooring, delivered with 1.5 mm stainless steel, anti-slip pressure plate

Different pressure plates available (heavy duty weight)



Ramp

Different sizes of ramps available to give access to the dry room

Material: anti-slip, stainless steel material

version 28-01



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