XSD-701-53 Dry Cabinet

Outstanding performance

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

The 53 series offers you the possibility to remotely operate and control your drying cabinet(s).

The dynamic drying unit of the 5000 series reaches very reliable low humidity values of ≤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.
Features

- User friendly handling
- ESD features
- Insulation
- Data logging sensor
- Sensor read out
- Touchscreen read out
- Interior lighting
- Door & humidity alarm buzzer
- Leveling out
- Lockable doors
- Sliding shelves
- U 5000 series drying unit
- Rotronic sensor
- Power supply

- Multifunctional full color touchscreen with easy menu structure
- Norm (IEC 61340-5-1)
  - ESD stainless steel body (<10³ Ohm/sq).
  - Conductive glazing (in- and outside 10³ Ohm/sq).
- 60 mm polyurethene sandwich construction
- Integrated data logger over sensor with standard 2000 measuring points.
- RS 232 interface (optional software required)
- Ethernet interface for communicating touchscreen
- Low power consumption LED lighting
- Longer door openings are detected, high RH levels are detected
- Adjustable legs
- Every door can be locked separately with a key.
- In height adjustable sliding shelves (5 pcs)
- ≤ 0.5% RH, made in Germany
- Precision sensor, accuracy +/-0.8 % RH, +/- 0.3 °C
- Power cord 5 meter with IEC plug

Benefits

- Drying time
  (see reference table)
- Recovery time after door opening
- Temperature stability

- Temperature setting
- Energy saving consumption
- Remote control and operation
- Wifi
- IPC
- European Quality
- Maintenance

- Level 3 component, 1.4 mm = 18 hours (60°C / 1% RH)
- < 6 minutes
- 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 insulated sandwich construction. Accuracy +/- 2%
- Heating up to 60°C
- As a result of a Dynamic dry unit, sandwich construction with insulating Polyurethene.
- Touchscreen can be controlled from a distance through ethernet
- Optional
- According to IPC-Jstd 033C
- Made in Germany
- Easy to service, low maintenance

Benefits touchscreen

- 7” full color HMI touchscreen
- Actual graphics of humidity and temperature
- History graphics from past 90 days
- Status from Dry unit and cabinet
  (dry unit fan, door, dry unit heater)
- Event log with information: start regeneration, temperature, login etc.
- Password protected for admin and operator
- Different settings for regeneration possible
- Firmware update by SD-card
- Global service through Ethernet
- N2 adjustment through touchscreen
Technical Data Cabinet

- External dimensions: (W x H x D) 700 x 1930/2110 x 808 mm
- Internal dimensions: (W x H x D) 544 x 1504 x 600 mm
- Weight: 142 kg
- Weight on shelf: 50 kg
- Shelves (WxD): 5 pcs, 535 x 550 mm.
- Volume: 490 L
- Electric supply: 230 VAC (120 VAC optional)
- Power consumption: 450 W/h (60° C)
- Protection class: class I, hard grounded
- Humidity level cabinet: ≤ 0,5 % RH can be reached with drying unit U 5000
- Sensor accuracy: +/- 0,8 % RH, +/- 0,3°C
- Temperature accuracy: 60° C, +/- 2° C

Technical data touchscreen

- HMI panel:
- Display: 7” widescreen TFT
- Resolution: 800 x 480 pixels
- Brightness: 500 cd/m2
- Contrast ratio: 500:1
- Backlight type: LED
- Backlight life time: 30.000 hours
- Touch panel: 4-wire resistive type
- Processor: RISC 400 MHz with RTC
- RAM: 64 MB
- Storage: 128 MB (shared with OS)
- Ethernet: 10/100 Base-T
- SD-Card: Yes, on backside (for service / upgrade only)
- Dimensions (mm): Frontpanel: 280 x 130 / Mounting depth: 210 x 120 x 60
- Protection Structure: IP20
- Operating temperature: 0 °C to 45 °C
- Options: Multi-language user interface
- VNC remote control with password
- FTP access for downloading logs
Technical Data Rotronic Sensor HC2-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.
- 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 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 (120 VAC available)
- Dimensions (L x B x H): 487 x 487 x 150 mm
- Weight: 14 kg
7" full color 53 HMI Touchscreen

- **Settings:**
  - Main – Actual status of humidity and temperature
  - Trend – Actual graphics of humidity and temperature
  - History – History graphics from past 90 days
  - Light – Switching of internal lightning
  - Status – Actual status drying unit and cabinet (heating, ventilation, door)
  - Events – Event log with data of the past 30 days
  - Alarms – Settings alarms
  - Regeneration – Setting automatically regeneration
  - Settings – Setting setpoint humidity and temperature
  - Network – TCP/IP network configuration
  - Menu – Different menu’s available to choose
  - System – Setting of time / date / display
  - Login – Login / change of password
  - Service – service page
Performance test

Instrument: Vaisala.
Type of sensor: Rotronic sensor
Accuracy of sensor: ± 1 % rH, ± 0.3°C
Location of sensor: In the direct surrounding of cabinet sensor
Ambient conditions: Humidity 50 ± 5% rH, 25° ± 2°C, Pressure 994 ± 20 hPa.
Dooropenings: 2 dooropenings, 15 sec. (average RH 0.70%)
Technical Drawing

XSD-701-53

Number of different types of shelves that can be mounted in cabinet (sizes are measured from the lowest shelf, at the bottom of the cabinet):

<table>
<thead>
<tr>
<th>Number of shelves (47000141)</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance (in mm) between shelves if equally divided</td>
<td>260</td>
<td>210</td>
<td>165</td>
<td>165</td>
<td>115</td>
<td>115</td>
<td>70</td>
<td>70</td>
<td>70</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Remaining space between top shelf and top cabinet</td>
<td>235</td>
<td>190</td>
<td>235</td>
<td>40</td>
<td>235</td>
<td>90</td>
<td>430</td>
<td>330</td>
<td>235</td>
<td>140</td>
<td>40</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of drawers</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remaining space in mm</td>
<td>1366</td>
<td>1270</td>
<td>1174</td>
<td>1078</td>
<td>982</td>
<td>886</td>
<td>790</td>
<td>694</td>
<td>598</td>
<td>502</td>
<td>406</td>
<td>310</td>
<td>214</td>
<td>118</td>
<td>22</td>
</tr>
</tbody>
</table>

Dimensions mentioned in mm.
Technical Drawings

Reel rack formation, 38 reels of 8mm can be placed in 1 reel rack, totally 152 reels.
Technical Drawings

Shelves formation

Different Feeder racks possible

Honeycomb systems

2 pieces of honeycomb system

1 piece of honeycomb system

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BIC: RaboNL2U
Bank: Rabobank 14.56.83.443
**Options**

**Honeycomb system,**
Flexible stainless steel storage system for IC Tubes components & PCB’s. The width of the compartments is adjustable before installing the system in the cabinet. The number of compartments varies from 17 till 170.

Item number 20050100

**Additional Sliding Shelves,**
stainless steel sliding shelf, 100% extractable

Item number 47000141

**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 47000129

**Cover plate for XSD shelves,**
prevent small items to fall through

Item number 47000132

**HygroClip 2,**
Probe with maximum accuracy for all climate measurements

Item number 47000027

Exchange calibrated sensor:

Item number 47000040
Options

**Humidity calibrator Hygropalm 22,**
preision measuring device for calibrating sensors

Set including Hygroclip sensor, case and cable:
Item number 20001019

Hygropalm only:
Item number 20001016

**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 reel rack:

Item number 20014201

**Door release pedal,**
This foot pedal enables you to open the door keeping your hands free

Item number 47000145

**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 24 V.

Item number orange/green 20016030

**N2 auto flow system,**
The Auto-Flow-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 realized by using nitrogen (N²), which is add automatically after the doors have been closed. (by means of adjustable timer function)

Item number 22613000
Options

**N2 flow system,**
The Flow-System is developed to use in combination with a Totech drying cabinet. The appliance is used for adding nitrogen (N²).

Item number 20010020

**X Feeder System,**
This feederrack is suitable for Siemens X Feeder systems.

Item number: 46204004

**S Feeder System,**
This feederrack is suitable for Siemens S Feeder systems.

Item number: 46204009

**MSL Basic software,**
Software solution for the monitoring of moisture sensitive components and their MSL States during storage and processing in the production. With the software the exact drying state individually for each component is monitored and displayed. Here, 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-033C directive.

Item number 20017450

**MSL software upgrade standard,**
Upgrade to monitor moisture sensitive components and your MSL were to an another storage facility (dry cabinet) with the standard-MSL-software.

Item number 20017452

**MSL advanced software,**
MSL upgrade offers multiple functions to the MSL standard Software. One of the possibilities is that it can read out multiple HC2-S sensors. To adjust storage conditions, picking of stock, removal of used parts & more stock control.

Item number 20017451
**HW4-E 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 software.**
Professional Edition for use with several cabinets. Rotronic HW4 is a process oriented, validated software for use with the Rotronic line of digital humidity-temperature instruments.

Item number 47000031

**Rotronic datalogger set,**
Including Software HW4-E-V3 and Cable AC3006

Item number 47000580

Sensor accuracy: +/- 0.8 % RH, +/- 0.3°C

**TP Link,**
Pre installed acces point on XSD 53 series

Item number 47000095