

SUPER DR



Applies to all cabinets of the -24, -54 and -57 series with Touchscreen (From LOGO software version upward of 1-24)



OPERATING THE DEVICE

All mechanical and electrical connections should be checked for tight fit and tightness prior to commissioning, as well as to remove any soil.

Insert the plug into a grounded electrical outlet. If the device does not start instantly, it is in the standby state. Please press the activation icon on the screen.

The initialization program of the cabinet now starts. When the initialization is complete, the display shows the home screen and the fans start running.



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Operation Manual Touchscreen

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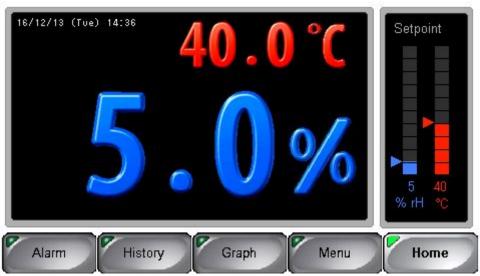
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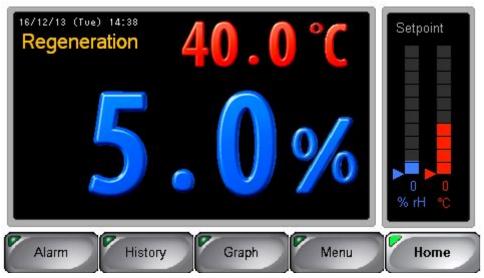
1. HOME DISPLAY



The display shows the relative humidity and temperature inside the cabinet / room in the left window. In the right-hand window you will find the displayed setpoints with arrows and the remote display at the bottom, as well as a bar graph for the current measured values in direct comparison.

1.1 Regeneration

When the display is reading Regeneration in yellow in the top left corner, the program has started a regeneration of the desiccant material inside the drying unit.



The humidity alarm light (optional) signals this state with a flashing green signal. After completion of the regeneration, the device switches to the drying mode which is signaled by a green continuous signal. After commissioning, the cabinet can be used immediately, and the full drying capacity is achieved after 24 hours.



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2. ALARM

If an alarm is triggered, the display background flashes red. Use the [Alarm] key to go to the alarm display. All alarms with date, time and type are recorded from start to end.



Press [Alarm Acknowledge] to reset the alarm delay. The optical and acoustic alarm signal switches off. If the alarm is still active, the alarm activates again after the set delay time.

The alarm delay for the door alarm is preprogrammed to 90 seconds and can not be changed.

The alarm indication in the display and the alarm light indication (option) are automatically deleted after elimination of the alarm cause. Use the arrows to scroll through the alarm messages. Use [Delete] to delete the complete alarm list.

3. TIMER (OPTION)

3.1 COUNTDOWN

The countdown timer allows to change the humidity and temperature values for a limited time. Specify the temporary values and settings and press [Next] to enter the timer. Here you can set the time, start, stop and reset the countdown. When the timer has elapsed, you will automatically return to the timer screen. The alarm will go off after the timer has finished. The optical and acoustic alarm can be acknowledged with the [Quit alarm] button.

3.2 FLT-RESET

With the reset function of the floor lifetime of electronic components, you have the possibility to automatically determine the rest time by means of the component specification.

After entering the Floor Lifetime reset menu by pressing [FLT-Reset] you have to specify some values. First of all, determine the place of the components in the cabinet. By default there is room to specify 10 different components. Select the place of the component by pressing the number. The column will get highlighted in white. Select the housing body thickness [thick], IPC-Level [level] and the conditions under which the components are drying with [Reset conditions]. The display will automatically calculate the time needed for the component to dry. After entering all the needed information for the component, make sure the column is still highlighted and press [Set]. The time will be set under [(time) left]. Press [Start] and the timer for that component will start. After starting the timer you can leave the timer display with [Home]. The home screen will show "Timer active" to show that the timer is running. When the timer has finished you will be automatically returned to the FLT-Reset menu.

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(NOTE: During an active timer, you won't be able to change any [Settings])

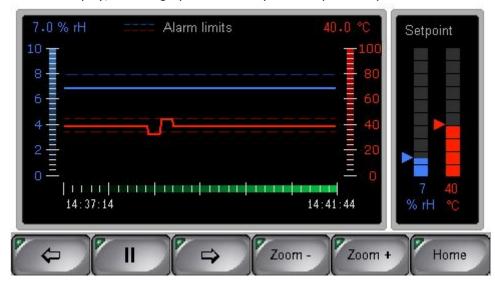




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4. GRAPH DISPLAY

With this display, a trend graph for humidity and temperature profile is recorded.



The display shows the relative humidity (blue) and temperature (red) as a trend graph. The dashed lines indicate the respective alarm limits. The zoom buttons allow you to adjust the displayed time window.

To scroll to the past, you must stop the current recording with [Stop]. They can then move with the arrow keys in the time axis. Press the [Start] button to return to the current trend display.

In the right-hand window you will find the displayed setpoints with arrows and the remote display at the bottom, as well as a bar graph for the current measured values in direct comparison.



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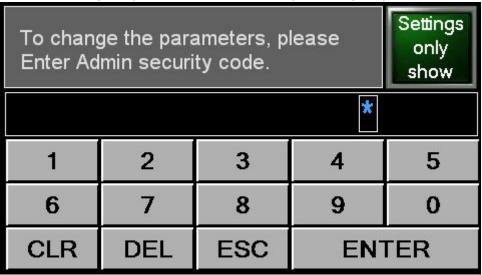
MENU

5. SERVICE

The service function is used to set the control parameters and is used exclusively by the manufacturer. Access only with service password.

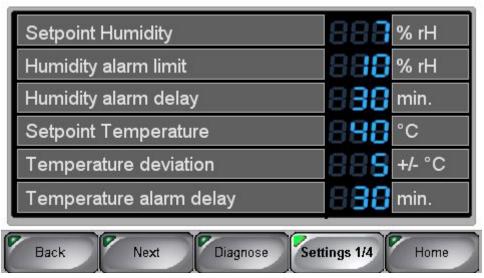
6. SETTINGS

Press the [Settings] key in the menu to enter the password prompt.



Here you have the option to display only the settings (white representation of the values), or by entering the security code via Enter to set the values (blue representation of the values). In the delivery state, no password is assigned, so you enter the settings directly with Enter.

6.1 SETTINGS 1/4



On the first page, you can set the setpoints for humidity and temperature.

If you click on the current value, an input window opens. Here you can change the value by entering a new value, within the value range. Press [Enter] to confirm the value for this setting.



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6.1.1 SETPOINT HUMIDITY

In the "Humidity" setpoint menu, the desired relative humidity is entered as a percentage when the active drying is stopped. If the setpoint exceeds 15 minutes, the device automatically performs a regeneration.

If "0" is entered, the continuous operation of the drying unit is activated. The maximum residual moisture is achieved by maximum energy consumption. If the fixed value of 0.5% RH is exceeded more than 15 minutes, the device automatically performs a regeneration.

In order to avoid overloading the drying unit, there is a break between two automatic regenerations of 3 hours. This pause can only be skipped by initiating a manual regeneration (see 6.4).

No active humidification is installed in the cabinet. As a result, a longer time can be passed before this is reached when the change from low humidity to a higher setpoint occurs. By deliberately opening the door, this process can be accelerated.

6.1.2 HUMIDITY ALARM LIMIT

This is where the humidity alarm threshold is set, when the acoustic and the optional optical alarm are activated.

6.1.2.1 ALARM

The alarm activates an acoustic signal and turns on the red background light in the text display. The red flashing light is activated when the optional alarm light is used. The acoustic alarm can be acknowledged by pressing the [Alarm] button, followed up with [Quit Alarm]. This is then active again when the alarm is re-activated. The alarm message in the display and the traffic light message are automatically ended after elimination of the alarm cause.

6.1.3 HUMIDITY ALARM DELAY

To ensure that every short-term increase in the humidity does not trigger an alarm, the alarm delay for the humidity is set with this value.

6.1.4 SETPOINT TEMPERATURE

The menu items 6.1.4 to 6.1.6 are only visible if an optional heating / cooling system has been installed. You can select the required temperature for the cabinet in this menu.

If the selected setpoint is below the temperature limit / ambient temperature, the heating remains inactive. This also applies to an optional cooling system.

6.1.5 TEMPERATURE DEVIATION

The deviation (difference) to the temperature setpoint is defined here, and the acoustic and the optional optical alarm are activated when the signal is exceeded (see 6.1.2.1).

6.1.6 TEMPERATURE ALARM DELAY

In order to prevent an alarm from being triggered by every short-term drop or increase in temperature, the alarm delay for the temperature drop out is set with this value.

Please note that heating is deactivated during regeneration. This can lead to a short-term drop (maximum 20 minutes) of the cut-off temperature.

6.1.7 DIAGNOSE

On the first page is access to the diagnosis of the display. You can also find the status overview of the LOGO! logic module.



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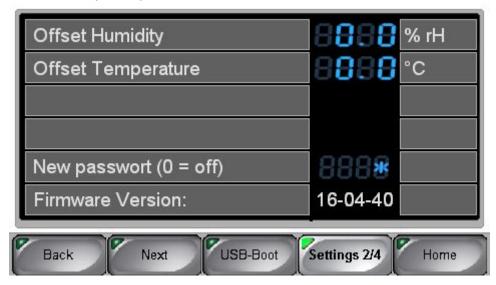






6.2 SETTINGS 2/4

6.2.1 OFFSET, LOCK, FIRMWARE



Pressing [Next] will bring you to the next page. Here you can calibrate the sensor values by offset and also assign a password which can be used to protect the setting values.

On this page is the [USB Boot] function. If you have inserted a program update on a USB memory stick you can carry out the transfer by pressing this button. After pressing, the display reboots and uses the firmware which is on the USB stick for this startup. This is simultaneously transferred into the memory of the display and overwrites the last current firmware.



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6.3 SETTINGS 3/4

6.3.1 SYSTEM TIME, DATA LOGGER



Continue to the third setting page by pressing [Next].

The current system time is displayed and you have the option to change it. To do this, activate the value to be changed under "Set system time" and enter the desired value in the input window.

| Specify a ∨alue for. ∨alue range 0000 to 1231 | | | | |
|--|------|-----|-----|-----|
| | 0902 | | | |
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 0 |
| | CLR | ESC | ENT | ΓER |

In addition to the setting for the acoustic alarm in the display, you can deactivate the logging function here as well. (See 9. Data Logging)

The [Offline] button is used to stop the program and you will be taken to the setting functions of the display itself. Here you can set the IP address and many other functions. (See 11. Network configuration)



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6.4 SETTINGS 4/4

MANUAL REGENERATION AND REGENERATION TIMER



Continue to the fourth setting page by pressing [Next]. This page contains the regenerations timer. Here you can define up to three times, in which a regeneration is to be started. Dynamic regeneration remains active so that additional generations are performed automatically. If this is not desired, the dynamic regeneration on the service menu has to be deactivated.

With Manual Regeneration, the user can start an immediate regeneration.

This function is only available during the drying phase. The [man.Reg] button initiates a regeneration. The necessary strength of the regeneration is determined automatically.

7. LANGUAGE



In the menu you will find the Language option. Here you have the possibility to choose your country language. The following languages are available:

German - English

Other languages are available upon request.



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8. STANDBY

To put the drying cabinet in standby mode, press the [Standby] button via [Menu] and then [Activate standby].

While the standby mode is activated, the backlighting of the display and the drying unit are deactivated. The fan of the optional heater can only be stopped by a complete power disconnect. During regeneration, standby mode is not available.

ATTENTION: Always disconnect the power supply during maintenance!

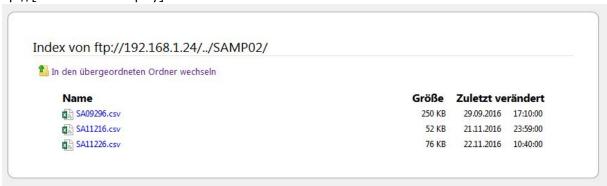
9. DATA LOGGING

The values for humidity and temperature are logged every minute. In addition, relevant events are logged as: cabinet opening, alarm releases, alarm acknowledgments, ...)

One file is automatically created per day in the "SAMP02" folder. The file name is named after the current date in the format: SAmmddy (example: 3.21.2017 SA03217).

The locking works only with a plugged USB storage medium!

The file can either be read directly from the USB stick or downloaded via FTP. ftp://[IP address of display] in the web browser.



To read out the csv file, Excel program can be used by Windows. The free Totech Viewer offers the ability to download the data graphically.

10. CALIBRATION

Totech recommends to check the calibration once a year or to recalibrate the system by replacing the sensor.

To calibrate the sensor, we recommend the following two possibilities:

- 1. Replacing the sensor by a factory-calibrated sensor. After detaching the screw-fastened retaining ring, the plug-in sensor can simply be unplugged. The replacement sensor is mounted in reverse order. Since all settings have been stored in the sensor, its replacement will serve to recalibrate the dehumidifier's overall measuring. Additional measurement equipment or software is not required. After replacing the sensor for the new calibrated sensor, the old sensor has to be returned to the factory. You do not need any further measuring devices or software.
- 2. Define deviations by means of a calibrated reference dew point meter (minimum accuracy $\pm 0.2\%$ RH or higher), and calibrate the sensor via the software's calibration function. This proceeding requires data connection to PC and software (for detailed instructions, please refer to the Software Manual of the manufacturer). (see 6.2.1 Offset, Lock, Firmware).

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11. NETWORKING CONFIGURATION

ATTENTION: The user can only use the configuration menu for the settings described in this manual. Any further changes can lead to a malfunction!

The drying cabinet or drying unit is pre-configured from the factory with the following IP settings. To establish a connection to your network, the address configuration must be adapted accordingly.

Factory default settings:

| Component | Address |
|------------------------|---------------|
| BM (LOGO! Base module) | 10.31.0.xxx |
| TDE (LOGO! Display) | 10.31.0.xxx |
| Subnet | 255.255.255.0 |
| Gateway | 10.31.0.1 |

11.1 CHANGE THE IP ADDRESS OF THE LOGO! BASE MODULE

To integrate the cabinet into your network, proceed as follows:

Before starting with this procedure, please determine 2 IP addresses which can be used for the cabinet in your local network, and write them down:

| Component | Address |
|------------------------|---------|
| BM (LOGO! Base module) | |
| TDE (LOGO! Display) | |
| Subnet | |
| Gateway | |

If you do not know which IP addresses can be used, please ask your local IT administrator.

To change the IP address of the LOGO! Base module, you'll need to download our free Totech Viewer from our website: http://www.superdry-totech.com/

For the following steps, you'll need to have the cabinet connected to the network. You can also connect the cabinet directly to a PC or laptop using an Ethernet cable. Make sure that the PC or laptop running the Totech Viewer software is set in the same range as the current IP address of the cabinet before changing the IP address, or it won't work:

Open the software, press [File] \rightarrow [Download data] \rightarrow [Refresh]

The software will show the current IP address of the cabinet.

Right click on the IP address → [Change IP address]

Change the addresses in the pop-up window and confirm with [OK]

Press [Refresh] again and the cabinet should show up with the new set IP address.

11.2 CHANGE THE IP ADDRESS OF THE DISPLAY

The IP address in the display must also be adapted for communication with the LOGO control. The IP address of the LOGO! Base module and the display must be in the same subnet.

To do this, go to the [Setting] menu on the 3rd page and press [Offline].

After a few seconds, the home menu of the display will be displayed.

Now proceed in the following order:

Press [Main Unit] \rightarrow [Ethernet] \Rightarrow The IP address for the display can be changed here. Follow up with pressing [Back] \rightarrow [Save] \rightarrow [Yes] \rightarrow [Exit] \rightarrow [Yes]

The [Port] number specified here is used for setup via Ethernet, for transfer of project files, and for communication with Pro-Server EX. Do not change the initial value [8000].

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11.3 SELECT THE LOGO! BASE MODULE IP ADDRESS

To make sure the display is connected to the LOGO! Base module in the drying unit, the IP address of the base module has to be specified in the display:

To do this, go to the [Setting] menu on the 3rd page and press [Offline]. Press [Peripheral] \rightarrow [Device/PLC Settings] \rightarrow [Siemens AG SIMATIC S7 Ethernet] \rightarrow [Device] \rightarrow "DEST IP ADDRESS" \Rightarrow Here you have to enter the IP address which you have given to the LOGO! base module.

(NOTE: Depending on the display type and firmware, the display may vary slightly.)

12. Calibration

Totech recommends annual calibration inspection or the system's calibration by sensor replacement, respectively. For the drying unit's calibration, we recommend the following two options:

- 1. Replacing the sensor by a factory-calibrated sensor. After detaching the screw-fastened retaining ring, the plug-in sensor can simply be unplugged. The replacement sensor is mounted in reverse order. Since all settings have been stored in the sensor, its replacement will serve to calibrate the dehumidifier overall measuring. Additional measurement equipment or software is not required.
- 2. Define deviations by means of a calibrated reference dew point meter (minimum accuracy ±0.2%RH or higher), and calibrate the sensor via the software's calibration function. This proceeding requires data connection to PC and software (for detailed instructions, please refer to the Software Manual of the manufacturer).

13. Maintenance

Ensure to generally disconnect the dehumidifier from the electrical power supply before opening or disassembling the device.

Ensure all motors - in particular ventilators - are at standstill before reaching inside the device!

In case the dehumidifier was in operation, please allow a cooling time of at least 30 minutes before disassembling the device!

General maintenance; Dehumidifier U-5000 has been designed for maintenance-free long-term operation. A maintenance schedule does thus not exist.

Sensor replacement and calibration; please proceed as described under item 7.

Repair works are to be performed by qualified Totech service engineers or adequately trained personnel only. Please contact your local Totech dealer, or Totech EU directly at the service portal found on the website: http://service.superdry-totech.com/



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14. Troubleshooting

14.1 For malfunction

- ✓ Disconnect device from power supply completely, and restart after 10 seconds.
- ✓ Check logic module and extension module as described under item 9.6.

14.2 Measuring faults

- ✓ Unplug the sensor and check plug connector.
- Check the sensor pins.

14.3 Communication error via Ethernet

✓ No communication: Check TCP/IP settings, see item 4.12.

14.4 Display indicates "BM no resp Press ESC"

- Malfunctioning connection between display and logic module. Check plug connections of display, drying unit, and logic module. (For checking, the display can be directly connected to the drying unit with a standard Ethernet cable).
- ✓ Check logic module as described under item 9.6.

14.5 No indication on Display

- Check plug connections.
- ✓ Check mains fuse in port, and replace if necessary.
- ✓ Check LED for illumination on power supply unit.
 - a) No LED illuminated ⇒ check input-side power supply unit (230VAC); if present, the logic module needs to be replaced.
 - b) Red LED illuminated ⇒ disconnect secondary power supply unit. If red color remains, the power supply unit is to be replaced.
 - c) If illumination switches to green, identify and remedy cause for short-circuit fault.
- ✓ Disconnect external optional equipment (alarm signal light, heater, N₂, ...) and re-check
- ✓ Disconnect display and re-check

14.6 Logic module and extension module checking

- ✓ Green LED illuminated ⇒ proper function.
- ✓ Red LED illuminated ⇒ software update via Ethernet module required. If the respective state remains, the logic module is to be replaced.
- ✓ No LED illuminated ⇒ check voltage supply (24VDC); if present, the logic module is to be replaced.



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14.7 Humidity too high

- ✓ At first startup, wait at least 24 hours for the cabinet to stabilize.
- ✓ The cabinet is in a regeneration cycle, it is normal the humidity will rise during this procedure.
- ✓ Unplug the cabinet, wait 5 seconds and power up the cabinet. Wait at least 6 hours to check if the humidity decreases.
- ✓ Check the cabinet for any leakage, check the doors and any open connections to the environment.
- ✓ Check if the cabinet is fully loaded with wet components, the cabinet needs time to dry these components.
- ✓ Insufficient air flow ⇒ convections vents covered.
- ✓ Fan failure ⇒ replace drying unit.

14.8 Temperature too low

- ✓ Heating module switched off ⇒ switch on heating module.
- ✓ Heating module power supply interrupted ⇒ check mains connection.
 ✓ Plug connection to drying unit disconnected ⇒ check plug connection.
- ✓ Heater or ventilator failure ⇒ replace defect components.



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15. Warranty and Liability

15.1 Warranty and liability

Principally, we apply our "General Terms & Conditions", which the operator has been provided with upon contract conclusion at the latest. Warranty and liability claims in relation to personal injury and property damage shall be excluded if the same arise from one or more of the causes below:

- the dehumidifiers unintended use;
- the dehumidifiers improper and inappropriate installation, commissioning, operation, and/or maintenance;
- operation with defect safety devices or non-functional safety and protective devices;
- ✓ unauthorized modification or unauthorized alteration of the technical design;
- ✓ repair works performed in an inappropriate manner;
- ✓ disaster situations, impact by foreign objects, and events of force majeure.

After purchase, we provide warranty on all our new products, unless agreed differently.

<u>Full Warranty</u> valid during the first year after purchase of the new product All Drying Cabinets, Vacuum machines & spare parts (including dry-units).

Full warranty:

The end user will receive the defective part replaced at no costs. The transport costs are to be paid by the end user. The defective part has to be returned after it is replaced with the new one. Actual replacement is done by the end user with support from Totech technical support if needed.

<u>Exchange warranty</u> valid during the second year after purchase of the new product Only U-5000 series & U-7000 series.

Exchange warranty:

The end user will receive the defective part at a lower price. The old part will be returned by the end user to Totech EU as soon as the defective part is replaced with the new one.

Actual replacement is done by the end user with support from Totech technical support if needed.

<u>Third year warranty</u> valid during the third year after purchase of a new product Only U-5000 series & U-7000 series.

Third year warranty:

Each case will be evaluated by the technical support department, and the Part(s) will be provided under leniency circumstances. The end user will receive the defective part at an especially quoted price by Totech EU sales department. The old part will be returned by the end user to Totech EU as soon as the defective part is replaced with the new one.

Actual replacement is done by the end user with support from Totech technical support if needed.

Please note: all the parts needs to be shipped back to Totech Europe B.V. within 30 days of receiving the warranty parts. If not, you will be invoiced for the normal price.



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15.5 Guidelines for the RMA procedure of Totech Europe B.V.

Please provide us as much as possible details to speed up the process.

- ✓ Navigate to our service portal at http://service.superdry-totech.com/
- ✓ Totech Europe B.V. will only accept tickets filed in our service portal.
- ✓ We will provide you the warranty and/or repair parts as soon as possible.

Shipping the parts to Totech Europe B.V.

- ✓ Each part must have its own RMA form attached.
- ✓ All parts must be shipped back in original packaging as much as possible, and ESD safe.
- ✓ Those parts that are returned to Totech EU without any proper packaging will not be accepted for warranty or repair.
- ✓ Broken or damaged parts due to shipping, or bad packaging, will not be accepted for warranty.

Send all parts to:

Totech Europe B.V.
To: Technical support department
Paxtonstraat 11
8013 RP Zwolle
The Netherlands



V.A.T.: NL813341887B01

BIC: RABONL2U

IBAN: NL83RABO0145683443

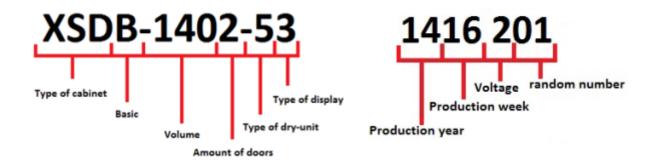




16. Serial numbers

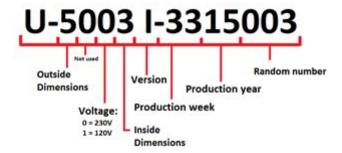
16.1 Cabinet serial numbers

Explanation how the serial number of the cabinet is identified:



16.2 Dry-unit serial numbers

Explanation how the serial number of the Drying Unit is identified:





Phone: +31 (0) 38 203 1051 Fax: +31 (0) 38 203 1052 K.v.K: 390 86417 sales@superdry-totech.com V.A.T.: NL813341887B01 IBAN: NL83RABO0145683443 BIC: RABONL2U





A Member of the ASYS Group

17. CE Declaration

With this writing, we:

Totech Europe BV Paxtonstraat 11 8013 RP Zwolle

That the following Dry Cabinets are fitted with U-5003 Drying Unit: MSD 1222-54, HSD series, XSD series, XSDB series, XSDR series, XSDR series, SDR series

confirm that the drying cabinet described corresponds with the fundamental safety and health demands of the following EC instructions:

EN55011: 1998+A1:1999+A2:2002 EN61000-6-2:2001 2006/95/EG 2004/108/EG

Totech Europe B.V.

Gerhard Kurpiela



sales@superdry-totech.com