

SICCO Desiccators for drying/storage

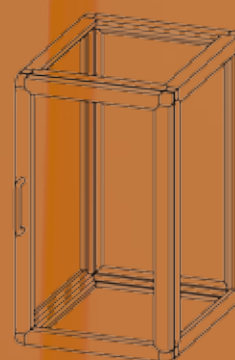
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SICCO Desiccators are designed for storing or drying humidity sensitive products using Silicagel. The tight fitting door protects the contents from contamination of the atmosphere. The controlled environment

inside the desiccators is ideal for storing reference materials, retained samples, metallographic specimens, tobacco and DNA samples.

Feature Summary

- » Reinforced aluminium frame with acrylic or borosilicate glass panels
- » Door with magnetic catch and circular rubber seal
- » Non-slip rubber feet or four casters (two of the casters with brakes)
- » Easy to read electronic hygrometer
- » Variable height shelves made of polycarbonate, stainless steel or aluminium
- » Telescopic shelves
- » Desiccant tray
- » Star-Desiccators include Silicagel



SICCO BENEFITS

- » reinforced aluminium frame with acrylic panels
- » door with magnetic catch and circular rubber seal
- » easy to read electronic hygrometer
- » variable height shelves
- » telescopic shelves
- » non-slip rubber feet

BESTSELLER

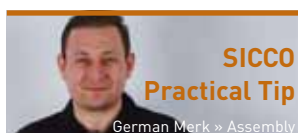
SICCO Star-Desiccator

Panels:	Material:	Temperature resistance:	Use:	Stand:
clear	PMMA	-20 °C to +70 °C	normal pressure	rubber feet

Specification:

Aluminium frame with panels made of acrylic glass, including four shelves made of polycarbonate, tray, hygrometer and desiccant, usable with up to 26 shelves, stackable.

Cat. No.:	V 1871-07
Overall dimensions* W x H x D mm	310 x 525 x 375
Usable interior space W x H x D mm	260 x 480 x 330
Capacity liters	51
Weight kg/approx.	7
Maximum all-over load per shelf kg	10
Total all-over load kg	30



SICCO Practical Tip

German Merk » Assembly

You do not have much space on your worktop and would like to stack your desiccators safely?

Just use our Connectors for Desiccators.

page 84, 98



Add. accessories

Page 77-86.

*Overall dimensions are indicated as follows: width including hinge, height starting from base, depth without handle

SICCO Mini-Desiccators Premium

Panels:	Material:	Temperature resistance:	Use:
clear	Polycarbonate	-35 °C to +70 °C	normal pressure

Version Mini 1:

Polycarbonate, one compartment, including two shelves, hygrometer and desiccant, non-slip rubber feet, stackable.

A	Cat. No.:	V 1950-01
	Overall dimensions W x H x D mm	221 x 183 x 214
	Usable interior space W x H x D mm	212 x 162 x 180
	Capacity liters	6,2
	Weight kg	0,9
	Maximum all-over load per shelf kg	2
	Total all-over load kg	3

Version Mini 2:

Polycarbonate, two permanently fixed compartments, including four shelves, two hygrometers and desiccant, non-slip rubber feet, stackable.

B	Cat. No.:	V 1950-02
	Overall dimensions W x H x D mm	221 x 362 x 214
	Usable interior space W x H x D mm	212 x 162 x 180 per compartment
	Capacity liters	6,2 per compartment
	Weight kg	1,8
	Maximum all-over load per shelf kg	2
	Total all-over load kg	3 per compartment

Version Mini 3:

Polycarbonate, three permanently fixed compartments, including six shelves, three hygrometers and desiccant, non-slip rubber feet, stackable.

C	Cat. No.:	V 1950-03
	Overall dimensions W x H x D mm	221 x 540 x 214
	Usable interior space W x H x D mm	212 x 162 x 180 per compartment
	Capacity liters	6,2 per compartment
	Weight kg	2,7
	Maximum all-over load per shelf kg	2
	Total all-over load kg	3 per compartment



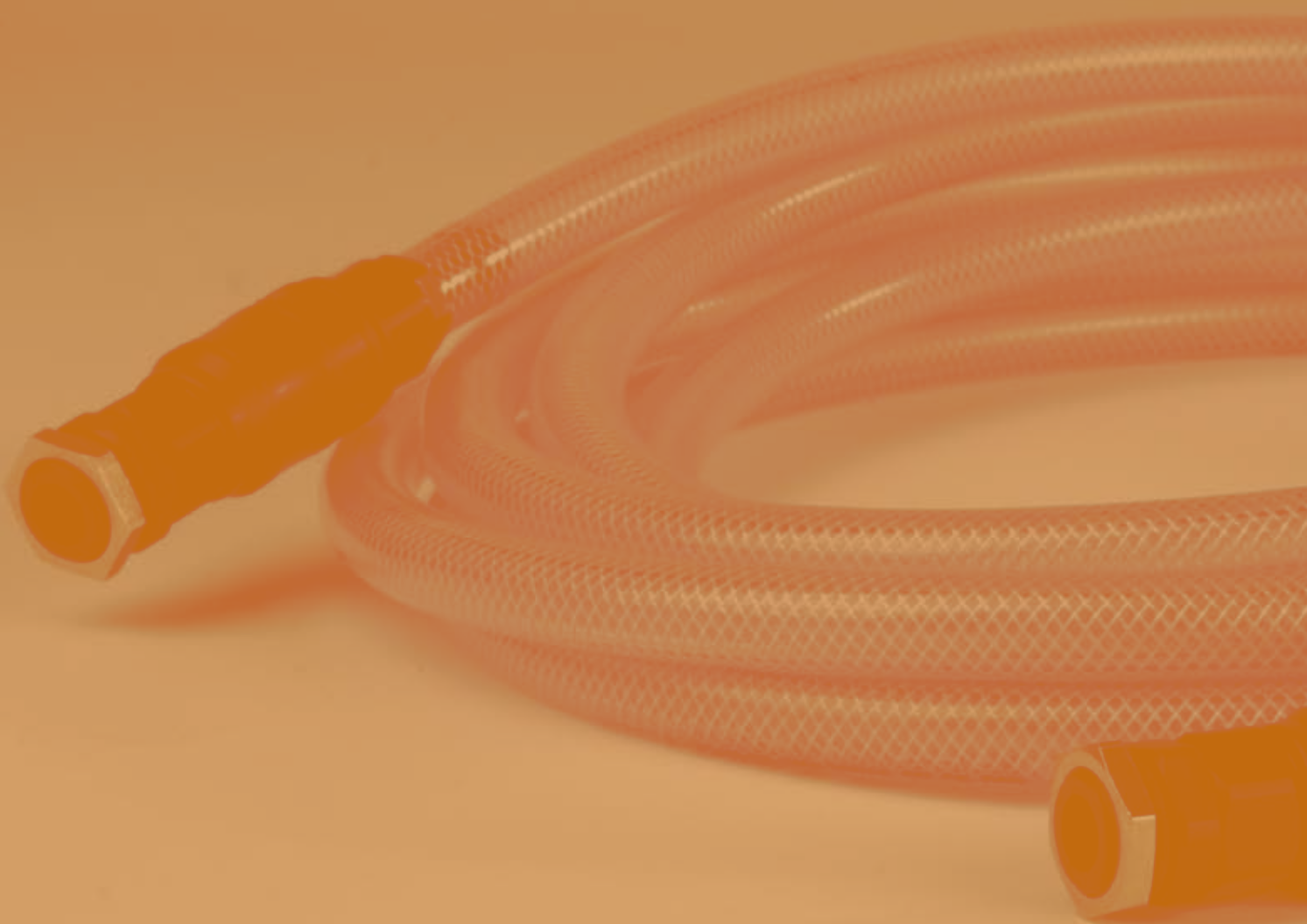
On the following pages you can find practical accessories which will help you to adapt your SICCO Desiccators and Glove Boxes to your application.

Increase space for your humidity sensitive products by using additional shelves or drawers.

Monitor the exact conditions inside the desiccators with a hygrometer or a humidity-temperature probe with USB-interface.

Hoses, trays, desiccant?
Just take a look at the following pages!

Of course you will receive all this in the usual SICCO high quality.



Shelves and Trays

suitable for: Star-, Super-Star-, Protect-Star-, Black-Star, Thermo-Star-, Auto-Star-Desiccators

Product description Dimensions: width x height x depth	Material / Special features	Weight	Cat.No:	
Shelf 258 x 4 x 320 mm; including 2 rails	PC, transparent rails made of polyamide	approx. 420 g including rails	V 1860-68	
Shelf 258 x 2 x 320 mm; with 12 bores Ø 10 mm including 2 rails	stainless steel, rails made of polyamide	approx. 1.305 g including rails	V 1860-52	
Collecting tray 235 x 80 x 320 mm max. collecting capacity 1,5 liter including 2 rails	welded stainless steel; max. all-over load: 12 kg; Collecting tray function: 20 mm height rails made of polyamide	approx. 1.200 g including rails	V 1952-16	

suitable for: Tower-Star-Desiccators

Shelf 258 x 4 x 320 mm; including 2 rails	PC, transparent rails made of aluminium	approx. 420 g including rails	V 1860-67	
Shelf 258 x 2 x 320 mm; with 12 bores Ø 10 mm including 2 rails	stainless steel, usable up to 150 °C rails made of aluminium	approx. 1.305 g including rails	V 1860-51	
Collecting tray 235 x 80 x 320 mm max. collecting capacity 1,5 liter including 2 rails made of aluminium	welded stainless steel; max. all-over load: 12 kg; Collecting tray function: 20 mm height	approx. 1.200 g including rails	V 1952-08	

suitable for: Antistatic-Star-Desiccators

Shelf 258 x 2 x 320 mm; including 2 rails	Aluminium	approx. 490 g including rails	V 1860-55	
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suitable for: Star-Desiccators Double

Shelf 565 x 0,5 x 320 mm; with 32 bores Ø 10 mm including 2 rails	stainless steel, rails made of polyamide	approx. 1350 g including rails	V 1860-61	
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Shelves and Trays

suitable for: Horizontal-Star-Desiccators

Product description Dimensions: Width x height x depth	Material / Special features	Weight	Cat.No.:	
Shelf 474 x 4 x 320 mm; including 2 rails	PMMA, transparent rails made of polyamide	approx. 735 g including rails	V 1860-73	
Shelf 474 x 4 x 320 mm; including 2 rails	Aluminium	approx. 1650 g including rails	V 1860-57	

suitable for: Vitrum-Star, Auto-Vitrum-Star-Desiccators

Shelf 258 x 2 x 320 mm; with 12 bores Ø 10 mm including 2 rails	stainless steel, usable up to 150 °C rails made of aluminium	approx. 1.305 g including rails	V 1860-51	
Collecting tray 235 x 80 x 320 mm max. collecting capacity 1,5 liter including 2 rails made of Aluminium	welded stainless steel; max. all-over load: 12 kg; Collecting tray function: 20 mm height	approx. 1.200 g including rails	V 1952-08	

suitable for: Mini-Desiccators

Shelf 211 x 2,0 x 178 mm	PMMA, transparent	approx. 90 g	V 1860-75	
Shelf 211 x 4,0 x 178 mm	PE static dissipative	approx. 149 g	V 1860-77	

suitable for: Vacuum-Desiccators

Shelf 258 x 5,0 x 250 mm	PMMA, transparent	approx. 380 g	V 1860-30	
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suitable for: Maxi-1 Desiccator Horizontal

Shelf 1023 x 0,8 x 515 mm; including 2 rails	stainless steel, polyamide	approx. 3960 g	V 1860-05	
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Shelves and Trays

suitable for: all Desiccators Big-Star, Maxi and Desiccator Wall

Product description Dimensions: Width x height x depth	Material / Special features	Weight	Cat.No.:	
Shelf 495 x 0,8 x 515 mm with 36 bores Ø 20 mm including 2 rails made of aluminium	stainless steel, usable up to 150 °C	approx. 1.800 g including rails	V 1860-02	
Collecting tray 472 x 120 x 515 mm including 2 rails made of aluminium max. collecting capacity 3,5 liter	welded stainless steel; max. all-over load: 30 kg; Collecting tray function: 15 mm height	approx. 3.300 g including rails	V 1951-08	
Collecting tray 472 x 180 x 515 mm including 2 rails made of aluminium max. collecting capacity 4,5 liter	welded stainless steel; max. all-over load: 30 kg; Collecting tray function: 20 mm height	approx. 4.100 g including rails	V 1951-16	

suitable for: Big-Star-Desiccators incl. Protect and Black, Auto-Big-Star-Desiccator, Super-Big-Star-Desiccator, Maxi-1/ -2-Desiccator incl. Protect and Black, Auto-Maxi-Desiccators, Super-Maxi-Desiccators, Desiccator Wall, Auto-Desiccator Wall

Shelf 495 x 0,8 x 515 mm with 36 bores Ø 20 mm including 2 rails	stainless steel, rails made of polyamide	approx. 1.800 g including rails	V 1860-03	
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Accessories for drying

suitable for: Mini-Desiccators

Silicagel with colour indicator from orange to dark brown and black, regenerative (does not contain cobalt-II-chloride) height x diameter 45 x 41 mm	Grain size 2,0–5,0 mm, loss after drying <= 4 %	23 g	V 1903-04	
Desiccant Cartridge Aluminium cartridge with encapsulated Silicagel, saturation is displayed on the top side by colour indicator from blue to pink.	width x height x depth 102 x 12 x 53 mm	40 g	V 1901-04	

Accessories for drying

suitable for: all Star-, Big-Star-, Maxi-Desiccators

Product description Dimensions: Width x height x depth	Material / Special features	Weight	Cat.No.:	
Silicagel with colour indicator from orange to dark brown and black, (does not contain cobalt-II-chloride), can be regenerated	Grain size 2,0–5,0 mm, loss after drying < = 4 %	360 g	V 1895-04	
		720 g	V 1895-08	
Silicagel with colour indicator from orange to dark brown and black, (does not contain cobalt-II-chloride), can be regenerated	Grain size 2,0–5,0 mm, loss after drying < = 4 %	8000 g	V 1895-12	
Desiccant Cylinder Aluminium cylinder with encapsulated Silicagel, saturation is displayed on the top side by colour indicator from blue to pink.	height x diameter 136 x 108 mm	750 g	V 1902-04	

suitable for: all Desiccators for gas-filling

PVC hose for introduction of gas including two quick couplings made of POM and non-return valve.	PVC Fibre hose I.D. 9 mm x O.D. 15 mm	5 m length	V 1864-01	
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suitable for: all Desiccators

Tray for Silicagel 247 x 30 x 297 mm for 1000 g Silicagel	PBTP	365 g	V 1861-07	
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Hygrometer

suitable for: Mini-Desiccators

Product description Dimensions: Width x height x depth	Material / Special features	Weight	Cat.No.:	
Electronic Thermo-Hygrometer with max-min function; 52 x 39 x 15 mm; including LR 44 button cell, fastener and fastening screws	Measuring ranges: Temperature: -10 to +60 °C Humidity: 10-99 % r.h.. Max. measuring error: ± 1 °C at -10 to +50 °C ± 5 % r.h. at 25-75 % r.h. and 0-50 °C	30 g	V 1863-05	

suitable for: Star-, Big-Star-, Maxi-Desiccators

Electronic Thermo-Hygrometer with max-min function; 52 x 39 x 15 mm; including LR 44 button cell, fastener and fastening screws	Measuring ranges: Temperature: -10 to +60 °C Humidity: 10-99 % r.h.. Max. measuring error: ± 1 °C at -10 to +50 °C ± 5 % r.h. at 25-75 % r.h. and 0-50 °C	30 g	V 1863-07	
Electronic Thermo-Hygrometer with max-min function; large display 110 x 95 x 20 mm; including battery 1,5 V AAA, fastening material	Measuring ranges: Temperature: -10 to +60 °C Humidity: 10-99 % r.h.. Max. measuring error: ± 1 °C at -10 to +50 °C ± 5 % r.h. at 25-75 % r.h. and 0-50 °C	171 g	V 1866-07	
Electronic Thermo-Hygrometer with max-min function; 120 x 89 x 40 mm; including battery, calibration report resolution 0,1% rF / 0,1 °C, measuring cycle 18 seconds	Measuring ranges: Temperature: -10 to +70 °C, ± 0,5 °C Humidity: +2 to 98 % rh, ± 2 % Dew point: -40 to +70 °C td Durability: 8736 h	168 g	V 1859-08	

suitable for: all Desiccators

Mini-Hygrometer 68 x 45 x 25 mm; Digital LED display, including two batteries 1,5 V AAA	Measuring ranges: Temperature: 0 to +50 °C Humidity: 1 - 99% rh Max. measuring error: ± 1°C at 25°C ± 3% rh at 1% - 80% Resolution: 1% rF / 1 °C Sensor drift: 1% rh and 0,2 °C in 4 years	65 g	V 1829-08	
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Humidity-Temperature Probe with USB-Interface

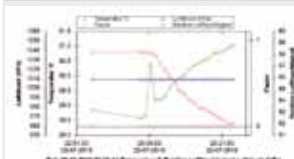
suitable for: all Desiccators

Product description Dimensions: Width x height x depth	Material / Special features	Weight	Cat.No.:	
Combined temperature and humidity probe including carry case and Windows-software for measured value display and data recording as well as USB plug type A, 1.1 or 2.0 compatible	Dim. of stainless steel tube Ø 12 x 125 mm and sintering filter, Measuring range: 0-100% rh, $\pm 2\%$ and -40 to 80 °C, $\pm 0,5\text{ K}$ Humidity: 0,01% rh Temperature: 0,01 K	100 g	V 1868-08	

USB-Datalogger

suitable for: all Desiccators

Battery-driven data logger with integrated temperature and humidity sensor. The measured data are recorded automatically in adjustable sampling rates of 1 minute to 24 hours. The device can save max. 40.020 values (20.010 humidity values and 20.010 temperature values). The stored data can be immediately read on the LC display. It is connected to a computer as a USB stick and read out there. A graphic report in PDF format is automatically generated.

USB-Datalogger Scope of delivery: Datalogger with protecting cap, 3V button cell (CR2450), Software CD, Installation manual Dimensions: approx. 40 x 90 x 20 mm Measuring interval: from 1 minute to 24 hours Battery life time: approx. 1 year at sampling rate 1 time per minute Connection type: USB 2.0	Temperature measuring range: -30 to +60 °C Temperature accuracy: +/- 0,5 °C / > 0 to 60 °C, +/- 1 °C / -30 to 0 °C Humidity measuring range: 0-100 % rh Humidity accuracy: +/- 5% (0-20 %, 80-100 %) +/- 3,5% (>20-40 %, 60-80 %) +/- 3 % (>40 - <60 %) Resolution: 0,1 °C / 0,1 % rh	20 g	V 1869-08	 
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Accessories for Maintenance and Wall Fastening

suitable for: Star-Desiccators

Product description Dimensions: Width x Height x Depth	Material / Special features	Weight	Cat.No.:	
Maintenance Kit for Star Desiccators Easy exchange of sealing and magnetic tape to ensure the airtight closure of the desiccator.	consisting of a rubber sealing tape, a magnetic tape and rubber feet	125 g	V 1778-02	
Connectors for Desiccators (except of Thermo-Star) (20 x 60 x 10 mm) Consisting of four pairs of braces, each pair with one screw and nut, one hexagon wrench, operating instruction	Aluminium	approx. 100 g	V 1953-07	
Wall Fastening Kit for Star Desiccators (except of Auto- and Thermo-Star) (20 x 60 x 10 mm) Consisting of one pair of wall-rails, one pair of fastening rails, six cylinder screws and one hexagon wrench. Screws for fixation of the rails on your wall are not included. More information on page 95.	Aluminium	approx. 650 g	V 1777-05	

suitable for: Big-Star-, Maxi-Desiccators

Maintenance Kit for Big-Star-/Maxi-Desiccators Easy exchange of sealing and magnetic tape to ensure the airtight closure of the desiccator.	consisting of a rubber sealing tape, a magnetic tape and rubber feet	225 g	V 1779-02	
Connectors for Desiccators (20 x 60 x 10 mm) Consisting of four pairs of braces, each pair with one screw and nut, four silicone o-rings, one hexagon wrench, operating instruction. More information on page 95.	Aluminium Rubber feet and casters have to be disassembled from the upper desiccator. The provided silicone o-rings avoid a slipping of the desiccators.	approx. 110 g	V 1954-07	



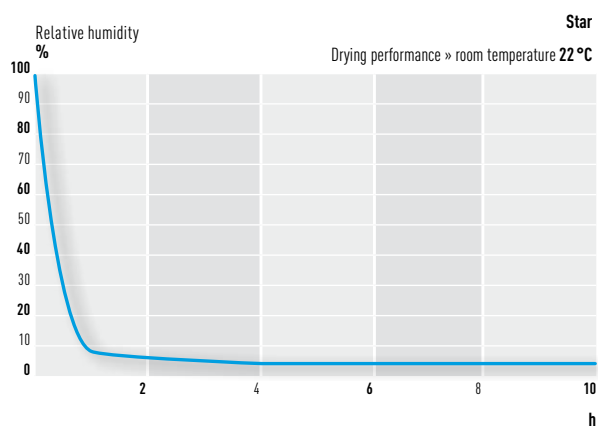
On the following pages you will find helpful information on our SICCO Desiccators and Glove Boxes.

Performance at a glance.

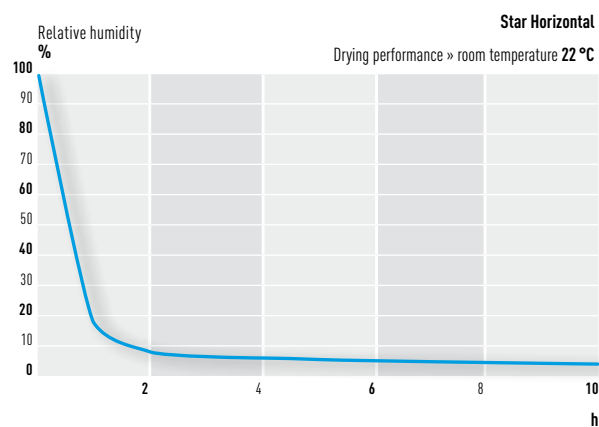
DRYING PERFORMANCE Desiccators for drying/storage

Test procedure:

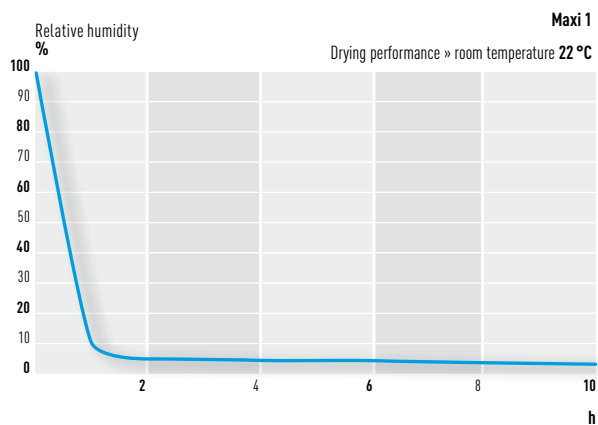
A relative humidity of approx. 100 % is simulated in a desiccator. In the bottom of the desiccator there is a tray with 500 g of Silicagel. The door is closed and is airtight. The curves show relative humidity versus time.



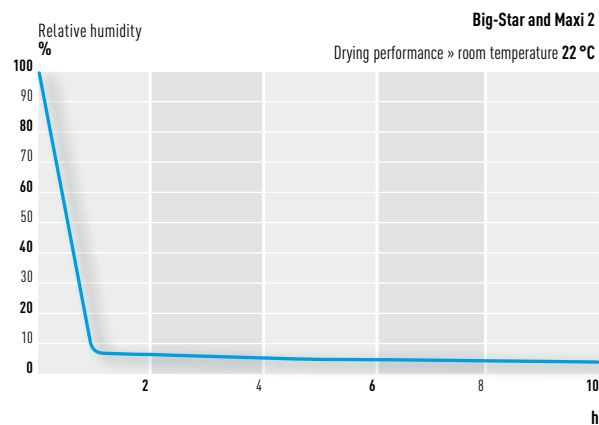
Relative humidity of below 10 % after approx. one hour.



Relative humidity of below 10 % after almost two hours.



Relative humidity of below 10 % after little more than one hour.



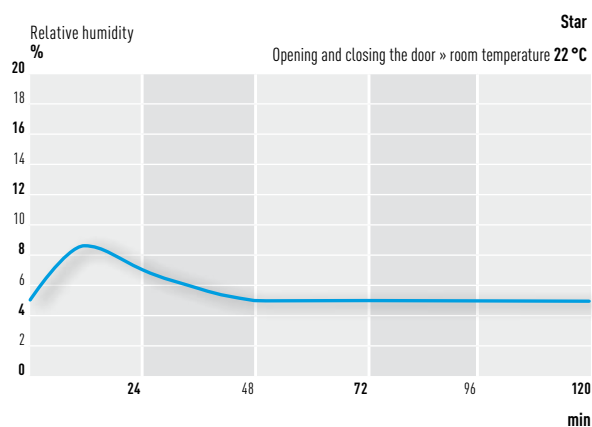
Relative humidity of below 10 % after approx. one hour.

OPENING AND CLOSING THE DOOR

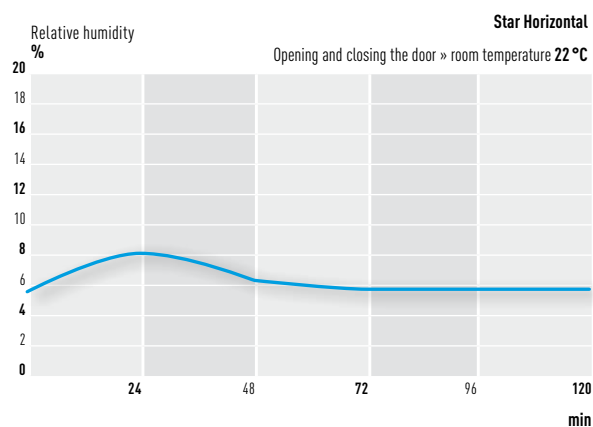
Test procedure:

A desiccator with three shelves is loaded with approx. 30 beakers. A relative humidity of max. 7% is maintained inside the desiccator. On one shelf and at the bottom of the desiccator there is one tray (350 x 240 mm) with 500 g of silica gel.

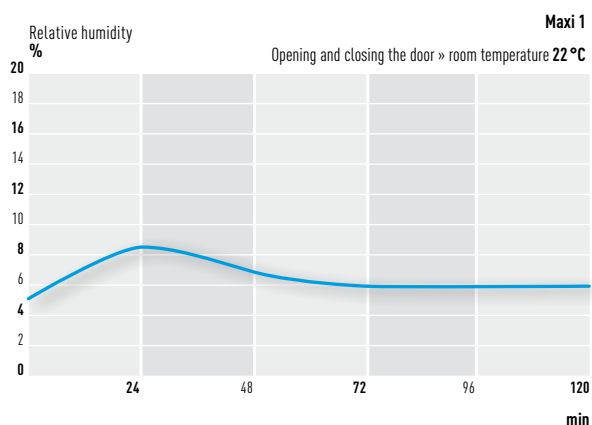
Then the airtight door is opened for 10 seconds and then closed. The curves show the development of humidity.



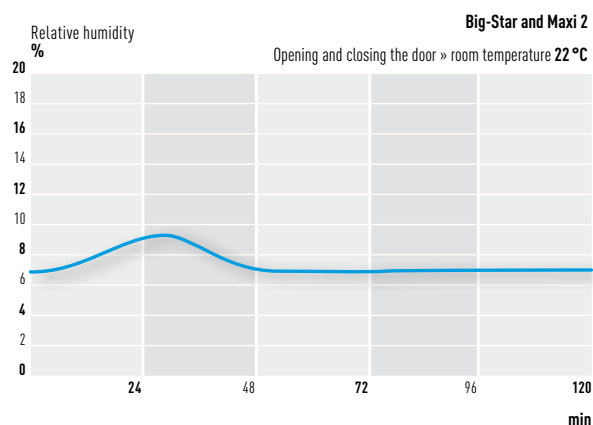
The initial value is attained after approx. 48 minutes.



The initial value is attained after approx. 58 minutes.



The initial value is attained after approx. 72 minutes.



The initial value is attained after approx. 48 minutes.