



Desiccators and Drying Cabinets

» stable» functional» custom-made

Dear Customer,



Bohlender is further emphasizing its commitment to producing a high quality range of desiccators with the introduction of the SICCO brand.

Changing of our brand name is combined with a new product design that improves the appearance and usability of the complete range; the new look retains well known product features.

We take pride in the high quality of our manufacturing process that ensures long product life and ease of use. And the team behind the new brand is unchanged which means you can continue to rely on Bohlender's well-known expertise and outstanding service in the future.

Take a look at the new SICCO catalogue and see for yourself. I am sure you will find that the new SICCO range will set the standard for desiccators in the lab and in industry; I look forward to hearing your comments.

Best regards,

Volker Bohlender

Content with selection assistant



For storing or drying dust and humidity sensitive products with silica gel.	*	
For storing reactive substances.	>>	1
For storing reactive substances.		
For long-term storing.	>>	1
For storing electronic parts in a neutral atmosphere.	>>	2
For rapid drying of substances and storing without oxygen and carbon	>>>	2
dioxide.		3

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Worth knowing.



Robust construction, appealing design, sophisticated functionality: SICCO desiccators and drying cabinets leave nothing to be desired. That's BOHLENDER experience and know how gained from more than 30 years of delivering safe storage systems for sensitive items and materials.

We have always set high quality standards; all design, development and manufacturing are done in house by BOHLENDER professionals.

SICCO – built for those who expect more.

Extra flexibility.

Depending on the kind of material, the quantity and how long you would like to store it, your requirements for a desiccator or a drying cabinet may change. Your needs set our benchmarks. Having design and production in house makes it possible efficiently to meet your requirements. We are sure you will find a suitable desiccator in our extensive product range. If not we can make custom units; we need a brief specification and our design department will start work to meet all your requirements.

Extra expertise.

We listen to our customers! Desiccators and drying cabinets are part of Bohlender's product range since 1977. And since 1998, we have been manufacturing them in house. Based on your feedback, our products are continuously improved and adapted to meet your requirements. Should you have any questions or requests, our professional staff will give you expert advice. Who knows more about drying cabinets and desiccators than the manufacturer?

SICCO



Extra service.

Some enquiries are urgent. To meet customer needs we keep the majority of our products in stock. Our efficient, well-established workflow systems assure rapid shipment of your order whether it is for desiccators, drying cabinets or accessories. Waiting times and unnecessary downtime can be prevented. You have no time to lose? We are here to help.

Extra reliability.

Valuable items or sensitive substances require reliable and safe storage. SICCO desiccators and drying cabinets are consistently designed and built for security and longevity. We use solid, shock resistant aluminium frames and high-quality, unbreakable acrylic panels which optionally are available either as antistatic or UV radiation resistant. Consistent, high quality inhouse manufacturing by our highly gualified staff complement a comprehensive quality assurance system. This results in desiccators and drying cabinets which are top of the class.

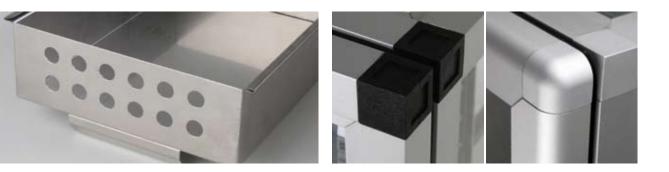
Extra features.

Our goal is that you are completely satisfied using our products just as we enjoy developing and producing them. The special appeal of SICCO desiccators and



drying cabinets stems from the many well-thought details and unique features such as our innovative, magnetic locking system "One-Touch-Door". The door closes tightly but can easily be opened and closed with a light touch.

Made to measure.



Many extras and special requests are already part of the standard SICCO product range. For special applications not currently available in our standard range we offer custom design and manufacturing.

If you have a special request, discuss your idea with our professionals; they will give advice and support during the design and specification process. Your idea will become a reality and will be produced to meet your requirements even for single unit orders. All we need is a drawing (a sketch is sufficient) and some brief details.

Call us at: **+49 (0) 93 46-92 86-0.** Or simply complete the attached form for custom enquiries including your contact details and return it by fax or e-mail. We will contact you to discuss further details and will then provide you with a free quotation.

Checklist for your custom desiccator:

- » Describe the desiccator required.
- » Which are the critical outer or inner dimensions?
- » Specify which materials will be stored in the desiccator.
- » Which kind of acrylic panels do you need?
- » How many shelves do you need?
- » What will be the maximum weight/ load? Per shelf? Per desiccator?
- » Do you need accessories (e. g. cylinder lock, gas fill, etc.)?
- » State quantities.
- » What is the budgetary price range per desiccator?





SICCO Desiccators are designed for storing or drying humidity sensitive products using silica gel. The tight fitting door protects the contents from contamination from the atmosphere. The controlled environment inside the desiccators is ideal for storing reference materials, retained samples, metallographic specimen, tobacco and DNA samples.

Feature Summary

- » Reinforced aluminium frame with acrylic 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 acrylic glass, stainless steel or aluminium
- » Telescopic shelves
- » Desiccant tray
- » Star-Desiccators include silica gel



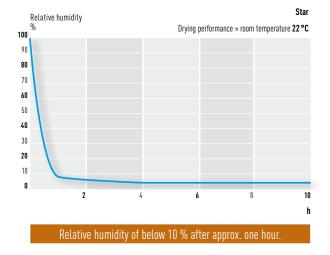


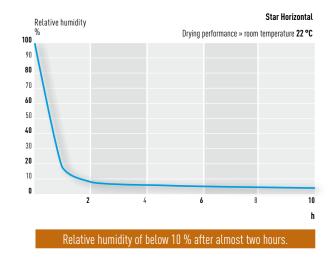
Performance at a glance.

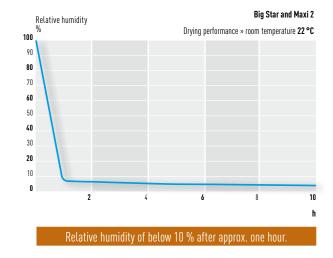
DRYING PERFORMANCE

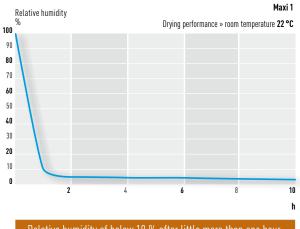
Test procedure:

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 silica gel. The door is closed and is airtight. The curve shows relative humidity v time.







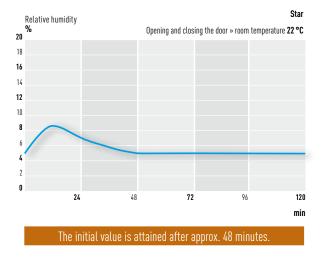


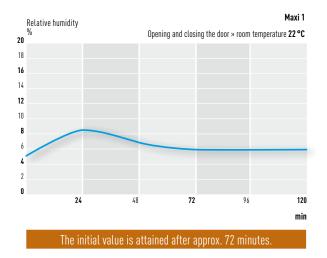
Relative humidity of below 10 % after little more than one hour.

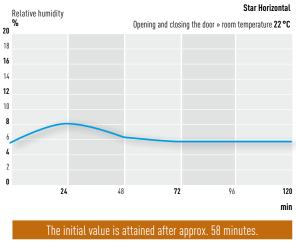
OPENING AND CLOSING THE DOOR

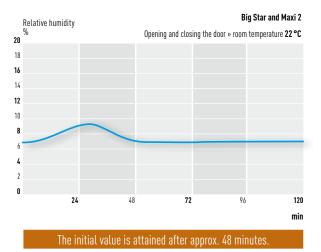
Test procedure:

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 curve shows the development of humidity.









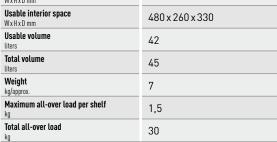
SIC	CO Star-De	esiccator			
Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: rubber feet	
		ır shelves made of acrylic ç sable with up to 26 shelves		and	
	Cat. No.:		V 1871-07		
	Overall dime	nsions*	310 x 525 x 375		
	Usable interi WxHxD mm	or space	260 x 480 x 330		
	Usable volum liters	ie	42		
	Total volume		45		
	Weight kg/approx.		7		
		-over load per shelf	10		
	Total all-over	load	30		



SICCO Star-Desiccator Horizontal

kg

3: f	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: rubber feet			
Specification: including two shelves made of acrylic glass, tray, hygrometer and desiccant, usable with up to 13 shelves, stackable, door opens forward							
	Cat. No.: V 1899-07						
			V 1077-U/				
	Overall dime WxHxD mm	nsions*	525 x 340 x 375				
	••••••						



Applications:

especially suitable for wide products such as A3 sheets or conductor boards.







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

SICCO	Maxi 1	-Desiccator

Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: casters			
	Specification: including four shelves made of stainless steel, tray and hygrometer, usable with up to 34 shelves						
	Cat. No.: V 1852-01						
	Overall dime WxHxD mm	Overall dimensions* WxHxD mm		560 x 1150 x 580			
	Usable interi WxHxD mm	or space	495 x 1030 x 540				
	Usable volum	le	280				
	Total volume		300				
	Weight kg/approx.		30				
	Maximum all	-over load per shelf	30				
	Total all-over kg	load	160				



SICCO Maxi 2-Desiccator

5100		Desiteator						
Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: casters				
	Specification: two chambers, two doors, each chamber usable with up to 17 shelves, including two shelves per chamber, two trays and two hygrometers							
	Cat. No.: V 1853-01							
	Overall dime WxHxD mm	nsions*	560 x 1150 x 580					
	Usable interi WxHxD mm	or space	495 x 500 x 540 per chamber					
	Usable volun liters	le	140 per chamber					
	Total volume		150 per chamber					
	Weight kg/approx.		34					
	Maximum all	Maximum all-over load per shelf 30						
	Maximum all	-over load	80 per chamber					
	Total all-ove	r load	160					





SICCO Big-Star-Desiccator

Usable volume

Total all-over load

liters Total volume liters

Weight kg/approx.

kg

kg

Panels: clear	Material: PMMA	-20 °C to +70 °C	^{USE:} normal pressure	stand: rubber fe
cical	TITIA	20 0 10 170 0	normat pressure	
	Specification:			
	0	o shelves made of stainless 7 shelves, stackable	s steel, tray and hygrom	eter, usable
	Cat. No.:		V 1896-07	
	Overall dime	nsions*	560 x 560 x 580	
	Usable inter	ior space	495 x 500 x 540	

Stand:

rubber feet



SICCO Star-Desiccator Protect

Maximum all-over load per shelf

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

Specification:

including four shelves made of acrylic glass, tray, hygrometer and desiccant, usable with up to 26 shelves, stackable, orange acrylic panels reduce light incidence

140

150

18

30

80

Cat. No.:	V 1879-07
Overall dimensions* WxHxD mm	310 x 525 x 375
Usable interior space WxHxD mm	260 x 480 x 330
Usable volume liters	42
Total volume liters	45
Weight kg/approx.	7
Maximum all-over load per shelf ^{kg}	10
Total all-over load ^{kg}	30

Applications:

especially suitable for the storage of light-sensitive substances





 $\ensuremath{^*\textsc{Overall}}$ dimensions are indicated as follows: width including hinge, height starting from base, depth without handle

anels:		Material:	Temperature resistance:	Use:
lear		Polystyrene	-35 °C to +70 °C	normal pressure
		Specification:		
			(one, two or three chamb	ers), immersible door, including
		desiccant		
	Α	Artikel-Nr. MINI	1 chamber:	V 1850-01
		Overall dimensi WxHxD mm	ons*	235 x 175 x 210
		Usable interior WxHxD mm	space	210 x 110 x 180 per chamber
		Usable volume liters, approx.		4,5 per chamber
		Total volume liters, approx.		4,5 per chamber
		Weight kg		0,8
		Total all-over lo	ad	5
	В	Artikel-Nr. MINI	2 chambers:	V 1850-02
		Overall dimensi WxHxD mm	ons*	235 x 340 x 210
		Usable interior WxHxD mm	space	210 x 110 x 180 per chambe
		Usable volume liters, approx.		4,5 per chamber
		Total volume liters, approx.		4,5 per chamber
		Weight kg		1,6
		Total all-over lo	ad	5
	С	Artikel-Nr. MINI	3 chambers:	V 1850-03
		Overall dimensi WxHxD mm	ons*	235 x 505 x 210
		Usable interior WxHxD mm	space	210 x 110 x 180 per chambe
		Usable volume liters, approx.		4,5 per chamber
		Total volume liters, approx.		4,5 per chamber
		Weight kg		2,5
		Total all-over lo	ad	5

Applications:

ideal for small parts, very handy











SICCO Unix-Desiccator

anels: nted	Material: PS	Temperature resistance: -35 °C to +70 °C	Use: normal pressure
	Specification:		
		height and width, includin able with up to nine shelve	g two removable shelves and es, door closes by latching
	Cat. No.:		V 1856-01
	Overall dimen	nsions*	250 x 250 x 180
	Usable interio WxHxD mm	or space	225 x 215 x 160
	Usable volum liters, approx.	le	8,5
	Total volume liters, approx.		9
	Weight kg/approx.		1,7
	Maximum all	-over load per shelf	3
	Total all-over	load	9







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

Gas filling SICCO Desiccators provide ideal conditions for the safe and secure storing of poisonous chemicals. Inert gas like nitrogen can be introduced as soon as the door is closed tightly. Compared to the ambient air the inert gas does not react with the stored substances.

Feature Summary

- » Reinforced aluminium frame with acrylic panels
- Door with magnetic catch, circular rubber seal, the Super-Star-Desiccator includes a cylinder lock
- Non-slip rubber feet or four casters (two of the casters with brakes)
- » Extra large electronic hygrometer

- » Variable height shelves made of acrylic glass, stainless steel or aluminium
- » Telescopic shelves
- » Two connections for gas filling with quick couplings
- » Non-return valve and hose



SICO	CO Super-	Star-Desiccato	r			
Panels: :lear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: rubber fee		
		r shelves made of acrylic g h quick coupling for gas fil				
	Cat. No.: V 1875-07					
	Overall dime	nsions*	310 x 525 x 375			
	Addi. place ro	equirement for coupling	150 per panel			
	Usable interi WxHxD mm	or space	260 x 480 x 330			
	Usable volum liters	10	42			
	Total volume		45			
	Weight kg/approx.		7,1			
	Maximum all	-over load per shelf	10			
	Total all-over	load	30			
	Bore diamete	r of quick coupling	Ø 6			
	Bore diamete	r in panels	Ø 16,5 – ^{upper left fr} lower right l	ont side back side		
	Length of tub	ing	5			



SICCO Super-Maxi 1-Desiccator

Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: casters	
	-	shelves made of stainless upling for gas filling, usab			
	Cat. No.:		V 1932-01		
	Overall dimen WxHxD mm	sions*	560 x 1150 x 580		
	Addi. place requirement for coupling mm Usable interior space WKH xD mm		150 per panel 495 x 1030 x 540		
	Usable volume	e	280		
	Total volume		300 30 30		
	Weight kg/approx.				
	Maximum all-	over load per shelf			
	Total all-over load kg Bore diameter of quick coupling mm		160		
			Ø 6		
	Bore diameter	in panels	Ø 16,5 – ^{upper left fro lower right b}	nt side ack side	
	Length of tubi	ng	5		



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

SICCO Super-Maxi 2-Desiccator						
Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: casters		
	Specification: two chambers, two doors, usable with up to 17 shelves per chamber, including two shelves made of stainless steel per chamber, two trays, two hygrometers and hose with quick coupling for gas filling.					
	Cat. No.:		V 1933-01			
	Overall dimensions*		560 x 1150 x 580			
	Addi. place red	Addi. place requirement for coupling		150 per panel		
	Usable interio WxHxD mm	r space	495 x 500 x 540 per chamber			
	Usable volume	9	140 per chamber			
	Total volume		150 per chamber 34 30			
	Weight kg/approx.					
	Maximum all-	over load per shelf				
	Maximum all-	over load	80 per chamber			
	rg Total all-over load kg Bore diameter of quick coupling mm		160			
			Ø 6 per chamber			
	Bore diameter	in panels	Ø 16,5 – upper left fron lower right ba	it side per chamber ck side per chamber		
	Length of tubin	ng	5			







With automatic drying that can maintain a constant humidity of between 20% and 30%, SICCO Automatic Desiccators are suitable for long-term storage. Even frequent opening of the door is compensated automatically. They are the ideal solution for storing reference samples, electronics, photo equipment, papers, valuable cultural assets and much more.

Feature Summary

- » Reinforced aluminium frame with acrylic panels
- » Door with magnetic catch and circular rubber seal
- » Non-slip rubber feet or four casters (two of the casters with locking device)
- » Easily readable electronic hygrometer

- Variable height shelves made of acrylic glass, stainless steel or aluminium
- » Telescopic shelves
- » Automatic drying
- » Constant low interior humidity between 20% and 30%



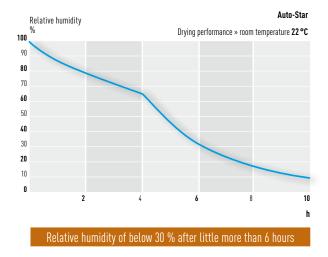
DRYING PERFORMANCE

Test procedure:

After a pre drying period of 10 minutes, a humidity of 100 % is simulated in an Automatic-Desiccator. The desiccator is switched on, the door remains closed tightly until the end of the test. The curves show relative humidity v time.

Results:

After only 10 minutes, the relative humidity inside the desiccator is down to 10 % due to automatic drying. Frequent controls are not necessary. The storage space is bigger since it is not necessary to use silica gel and process errors are avoided.



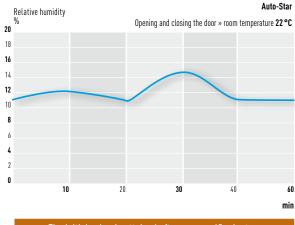
OPENING AND CLOSING THE DOOR

Test procedure:

An Automatic-Desiccator with three shelves is loaded with six bottles of 1.5 litres capacity on the two lower shelves. In addition, there are 12 beakers on the upper shelf. A relative humidity of 13% is produced in the desiccator. The airtight door is opened for 10 seconds and closed. The curves show the relative humidity v time.

Results:

The humidity falls to the initial value of 13 % after a short period of time. Application errors that may occur with silica gel are avoided.



The initial value is attained after approx. 40 minutes.

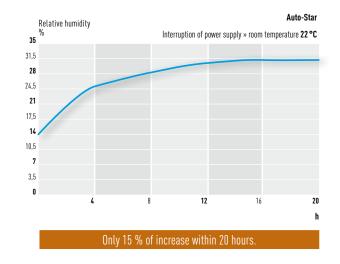
INTERRUPTION OF POWER SUPPLY

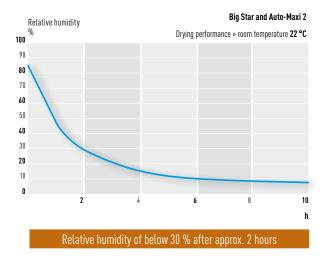
Test procedure:

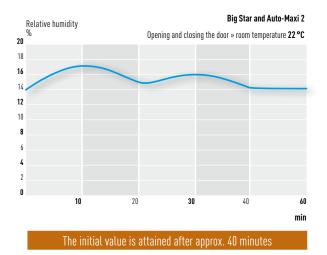
An Automatic-Desiccator with three shelves is loaded with six bottles of 1.5 litres capacity on the two lower shelves. In addition, there are 12 beakers on the upper shelf. A relative humidity of 13 % is produced in the desiccator. Then the desiccator is switched off at a room temperature of 22 °C. The curves shows relative humidity v time.

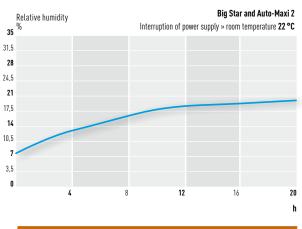
Results:

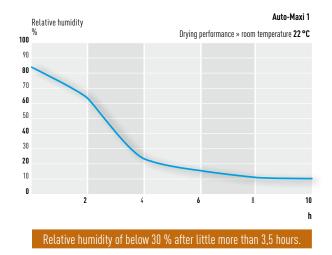
A significant increase of humidity is only noticeable after several hours. This means that the contents of the desiccator remain safe even if the power supply is interrupted.

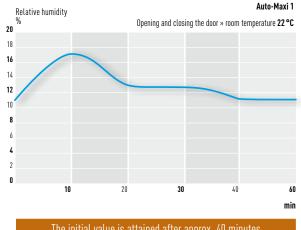




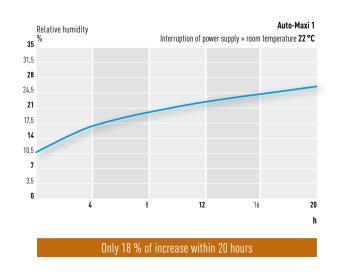












SICCO) Auto-S	tar-Desiccator				
Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: rubber feet		
	v	Specification: including four shelves made of acrylic glass and hygrometer, usable with up to 26 shelves, stackable				
	Cat. No.:		V 1877-07			
	Overall dime WxHxD mm	nsions*	310 x 525 x 375			
	Excess lengt	h of drying unit	60 back side			
	Usable interi WxHxD mm	or space	260 x 480 x 330			
	Usable volun liters	ne	42			
	Total volume		45			
	Weight kg/approx.		7,3			
	Maximum all	-over load per shelf	10			

30



SICCO Auto-Maxi 1-Desiccator

Total all-over load

kg

Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: casters	
	Specification:				
including four shelves made of stainless steel and hygrometer, usable with up to 34 shelves					
	Cat. No.:		V 1914-01		
	Overall dimensions* WxHxD mm		560 x 1150 x 580		
	Excess length	n of drying unit	100 back side 495 x 1030 x 540 280		
	Usable interio WxHxD mm	or space			
	Usable volum	e			
	Total volume		300		
	Weight kg/approx.		31		
Maximum all-over load per		over load per shelf	30		
	Total all-over	load	160		





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

SICCO Auto-Maxi 2-Desiccator								
Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: casters				
Specification: two chambers, two doors, usable with up to 17 shelves per chamber, including two shelves made of stainless steel per chamber, two trays and two hygrometers								
	Cat. No.:		V 1916-01					
	Overall dimensions* 560 x 1150 x 580							
	Excess lengt	n of drying unit	100 back side					
	Usable interio WxHxD mm	or space	495 x 500 x 540 pe	r chamber				
	Usable volum	le	140 per chamber					
	Total volume		150 per chamber					
	Weight kg/approx.		35					
	Maximum all-over load per shelf 30							
	Maximum all	-over load	80 per chamber					
	Total all-over	load	160					









SICCO Antistatic-Desiccators

SICCO Antistatic-Desiccators can protect electronic components against humidity and airborne particulate. Electrostatic charges are discharged by a grounding cable and a charge neutral atmosphere is produced inside the desiccator. Antistatic-Desiccators are mainly used for temporary storage of components for electronic products.

Feature Summary

- » Reinforced aluminium frame with antistatic acrylic panels
- » Door with magnetic catch and circular rubber seal
- Non-slip rubber feet or four casters (two of the casters with brakes)
- » Easily readable electronic hygrometer

- » Variable height shelves made of aluminium or stainless steel
- » Telescopic shelves
- » Connection for grounding cable
- » Tray for desiccant
- » Star-Desiccators include silica gel





SICCO Star-Desiccator Antistatic							
Panels: bluish	Material: PC ESDV	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: rubber feet			
Specification: including four shelves, tray, hygrometer and desiccant, usable with up to 26 shelves; all materials used can discharge electrostatic charging by means of a grounding cable which can be connected on the back side (connecting thread M6)							
	Cat. No.:		V 1910-07				
	Overall dimens	ions*	310 x 525 x 375				
	Usable interior WxHxD mm	space	260 x 480 x 330				
	Usable volume	1	42				
	Total volume		45				
Weight kg/approx. 7							
		ver load per shelf	10				
	Total all-over l	oad	30				



SICCO Maxi 1-Desiccator Antistatic

Panels:	Material:	Temperature resistance:	Use:	Stand:
bluish	PC ESDV	-20 °C to +70 °C	normal pressure	casters

Specification:

including four shelves made of stainless steel, tray and hygrometer, usable with up to 34 shelves; all materials used can discharge electrostatic charging by means of a grounding cable which can be connected on the back side (connecting thread M6)

Cat. No.:	V 1922-07
Overall dimensions* WxHxD mm	560 x 1150 x 580
Usable interior space WxHxD mm	495 x 1030 x 540
Usable volume liters	280
Total volume liters	300
Weight kg/approx.	30
Maximum all-over load per shelf	30
Total all-over load	160



26

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

01000							
Panels: bluish	Material: PC ESDV	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: casters			
	Specification:						
	two chambers, two doors, usable with up to 17 shelves per chamber, including two shelves made of stainless steel per chamber, two trays and two hygrometers; all materials used can discharge electrostatic charging by means of a grounding cable which can be connected on the back side (connecting thread M6)						
	Cat. No.:		V 1923-07				
	Overall dimension	ions*	560 x 1150 x 580				
	Usable interior WxHxD mm	space	$495 \times 500 \times 540$ per chamber				
	Usable volume liters		140 per chamber				
	Total volume liters		150 per chamber				
	Weight kg/approx.		34				
	Maximum all-o	ver load per shelf	30				
	Maximum all-over load kg 80 per chamber						
	Total all-over lo	oad	160				







SICCO Vacuum-Desiccators

SICCO Vacuum-Desiccators are suitable for storing sensitive products in a vacuum. The vacuum inside the desiccator ensures rapid drying of the stored products. These systems allow storage in an oxygen and carbon dioxide free environment and are, for example, suitable for storage of semiconductor samples.

Feature Summary

- » Clear acrylic panels, interior is visible from all sides
- » Circular silicone seal
- » Non-slip rubber feet
- » Variable height shelves

- » Vacuum gauge (0-760 mm of mercury)
- » Vacuum up to 10⁻⁴ Tor
- » Two needle valves with 0.D. 9.0 mm









SICCO	Vacuum-	Desiccator		
anels: crystal clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: Vacuum up to 10⁻⁴ Torr	Stand: rubber feet
	V 1880-04 inclu	ding two shelves, usable / 1880-12 including eacl	r silicone gasket, vacuum ga e with up to three shelves, n four shelves, usable with uj	°
Α	Cat. No. Vacuum	1:	V 1880-04	
	Overall dimensio	ns*	300 x 350 x 300	
	Excess length of	valves + vacuum gauge	100	
	Usable interior s WxHxDmm	pace	250 x 260 x 250	
	Usable volume liters, approx.		16	
	Total volume liters, approx.		16	
	Weight kg/approx.		15	
	Maximum all-ov	er load per shelf	9	
	Total all-over loa	ad	30	
В	Cat. No. Vacuum	2:	V 1880-08	
	Overall dimensio	ins*	300 x 450 x 300	
		valves + vacuum gauge	100	
	Usable interior s	pace	250 x 360 x 250	
	Usable volume liters, approx.		22	
	Total volume liters, approx.		22	
	Weight kg/approx.		18	
	Maximum all-ov	er load per shelf	9	
	Total all-over loa	ad	40	
С	Cat. No. Vacuum	3:	V 1880-12	
	Overall dimensio	ons*	310 x 560 x 310	
		valves + vacuum gauge	100	
	Usable interior s	pace	250 x 460 x 250	
	Usable volume liters, approx.		29	
	Total volume liters, approx.		29	
	Weight kg/approx.		27	
	Maximum all-ov	er load per shelf	9	
	Total all-over loa	h	50	









*Overall dimensions are indicated without hinges and valves; height is measured starting from base On the following pages you can find practical accessories which will help you to adapt your SICCO Desiccators 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 following pages!

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



Product description Dimensions : width x height x depth	Material / special features	Weight	Suitable for:	Cat. No.:	
Shelves					
320 x 4 x 258 mm; including two rails	PMMA, transparent rails made of aluminium	approx. 420 g including rails	Star-Desiccators (except Horizontal)	V 1860-67	
474 x 4 x 320 mm; including two rails	PMMA, transparent rails made of aluminium	approx. 735 g including rails	only Star-Desiccator Horizontal	V 1860-72	1
320 x 2 x 258 mm; with 12 bores Ø 10 mm including two rails	stainless steel, usable up to 150 °C rails made of aluminium	approx. 1.305 g including rails	Star-Desiccators (except Horizontal)	V 1860-51	
320 x 2 x 258 mm; including two rails	aluminium	approx. 490 g including rails	Star-Desiccators (except Horizontal)	V 1860-55	
515 x 0,8 x 495 mm with 36 bores Ø 20 mm including two rails	stainless steel, usable up to 150 °C rails made of aluminium	approx. 1.800 g including rails	Maxi-Desiccators Big-Star-Desiccators	V 1860-02	

Drawers

Drawer and collecting tray in one; handle bar on lower side; can be filled with bulk material, big surface provides quicker drying of desiccator content, NEW can be put into oven for regeneration of silica gel. welded stainless steel; approx. 235 x 80 x 320 mm Star-Desiccators max. all-over load: 12 kg; 1.200 g (except Horizontal) V 1950-08 including two rails including height as max. collecting capacity 1.5 liters collecting tray: 20 mm rails welded stainless steel; approx. 472 x 120 x 515 mm max. all-over load: 30 kg; 3.300 g Maxi-Desiccators and including two rails V 1951-08 Big-Star-Desiccators height as including max. collecting capacity 3.5 liters collecting tray: 15 mm rails welded stainless steel; approx. 472 x 180 x 515 mm max. all-over load: 30 kg; 4.100 g Maxi-Desiccators and V 1951-16 including two rails height as including **Big-Star-Desiccators** max. collecting capacity 4.5 liters collecting tray: 20 mm rails

Product description Dimensions : width x height x depth	Material / special features	Weight	Suitable for:	Cat. No.:	
Trays					
270 x 15 x 210 mm for 400 g Silica gel	melamine	183 g	Star-Desiccators	V 1861-07	
350 x 40 x 240 mm for 1.500 g Silica gel	melamine	515 g	all Maxi-Desiccators and Big-Star-Desiccator	V 1861-21	
Desiccant					
Silica gel with colour indicator from orange to dark brown and black (does not contain cobalt-II- chloride)	Grain size 2.0–5.0 mm, loss after drying < = 4 %	360 g 720 g		V 1895-04 V 1895-08	
Hygrometers					
Electr. Thermo-Hygrometer with max-min function; 52 x 15 x 39 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	Star-Desiccators, Maxi-Desiccators	V 1863-07	
Electr. Thermo-Hygrometer with max-min function,; large display 110 x 20 x 95 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	Star-Desiccators, Maxi-Desiccators	V 1866-07	
NEW long-run stable, sturd	uous measurement of humidity, d y, maintenance-free, humidity ser n and minimum values	ew point and ter isor inured to co	nperature, with optical LED ondensation, calculation of	alarm, dew point td,	358 2031
120 x 40 x 89 mm; including battery, calibration report reslution 0.1% r.h. / 0.1 °C, measuring cyle 18 seconds	Measuring range: -10 to +70 °C, ± 0,5 °C +2 to 98 % r.h., ± 2 % -40 to +70 °C td durability 8736 h	168 g	Star-Desiccators, Maxi-Desiccators	V 1859-08	

Dimensions : width x height x depth	Material / special features	Weight	Suitable for:	Cat. No.:	
Humidity-Temperature Pi	obe with USB-Interface	e			
EW wide measuring range, calculation and indicat tabulated measured val data are recorded on ha for monitoring store roo	and humidity probe which can be high resolution, very good linearit ion of dew point, absolute humidit ues, Ird disk, humidity is measured wit oms in food production industry, q jects, microcontroller application	ty and durability ty, vapor pressu th a long-term s juality control o	, re, saturated vapor pressure table, capacitive polymer so r HVAC technology, humidity	e and enthalpy, ensor,	
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	Dimensions of stainless steel tube Ø 12 x 125 mm and sintering filter, D–100% r.h. ± 2 % and -40 to 80 °C, ± 0.5 K Humidity: 0.01% r.h. Temperature: 0.01 K	100 g	Star-Desiccators Maxi-Desiccators	V 1868-08	Sector and Control Control Control Sector and Control Control Sector and Contro Sector and Contro
T1 1 1 1 1 1	th built-in lithium battery for rec			d for	1
Compact data logger w The stored data can be further processing with For recording of 16.000 130 x 30 x 25 mm Reacting frequency:	read out via USB interface and ch other programs (e.g. Excel). measurements of temperature an Measuring ranges: Temperature:	arted with the i		d for	
Compact data logger w The stored data can be further processing with For recording of 16.000 130 x 30 x 25 mm Reacting frequency: 2 / 5 / 10 / 30 seconds, 1 / 5 / 10 / 30 minutes, 1 / 2 / 3/ 6 / 12 / 24 hours software for Windows 98/2000/XP/Vista,	read out via USB interface and ch other programs (e.g. Excel). measurements of temperature an Measuring ranges:	arted with the i		td for V 1869-08	<figure></figure>
Compact data logger w The stored data can be further processing with For recording of 16.000 130 x 30 x 25 mm Reacting frequency: 2 / 5 / 10 / 30 seconds, 1 / 5 / 10 / 30 minutes, 1 / 2 / 3/ 6 / 12 / 24 hours software for	read out via USB interface and ch other programs (e.g. Excel). measurements of temperature an Measuring ranges: Temperature: -40 to +70 °C, ± 1 °C Response time approx. 20 s Relative humidity: 0–100 % RH, ± 3 %	arted with the i	ncluded software or exporte		<image/>
Compact data logger w The stored data can be further processing with For recording of 16.000 130 x 30 x 25 mm Reacting frequency: 2 / 5 / 10 / 30 seconds, 1 / 5 / 10 / 30 minutes, 1 / 2 / 3/ 6 / 12 / 24 hours software for Windows 98/2000/XP/Vista, lithium battery (lifespan approx. 1 year for recording intervals of 5 sec or 2.5 years for intervals of 10 sec), wall bracket,	read out via USB interface and ch other programs (e.g. Excel). measurements of temperature an Measuring ranges: Temperature: -40 to +70 °C, ± 1 °C Response time approx. 20 s Relative humidity: 0-100 % RH, ± 3 % Response time approx. 5 s Accuracy of dew point (at 25 °C and 40-100 % RH): ± 2 °C	arted with the i	ncluded software or exporte		<figure></figure>

SICCO Glossary

PMMA

coll: acrylic glass also known under the tradename Plexiglas® of company Evonik Röhm GmbH

Synthetic, thermoplastic material; Break proof and impact resistant; Very good surface, shiny; Good resistance to dilute acids and alkali, limited resistance to organic solvents; Flammable properties similar to hardwood; Very low production of smoke if burnt; Gases emitted when burning are neither toxic nor corrosive; Usable up to approx. +70 °C

Volume resistivity: >10¹⁵ Ω/cm, test specification DIN VDE 0303, Surface resistivity: 5 x 10¹³ Ω, test specificationDIN VDE 0303, part 3; Transmittance tD65: -92 %, test specification DIN 5036, part 3

PMMA orange Properties: see above;

tD65 = transmittance according to DIN 5036 at standard illuminant D65 (daylight, approx 6500 K, DIN 5033): 42 % aD65 = absorbance according to DIN 5036: 52 %

Polycarbonate

PC-ESC is made of transparent, two side coated permanent static dissipative material. The dissipative property reduces particle attraction and the generation of electrostatic fields. Complies with EN 61340-5-1 and ANSI/ESD S20.20-1999

Electrical properties :

Surface resistance Rs $10^{5}-10^{7} \Omega$ (EN 61340-2-3) Point to point resistance Rp $10^{4}-10^{6} \Omega$ (EN 61340-2-3) Resistance to ground Rg $10^{4}-10^{6} \Omega$ (EN 61340-2-3)

Relative humidity

Percentage ratio between water vapor pressure and saturated water vapor pressure over a clear and even water surface. On this basis it is easy to evaluate how quickly evaporation will proceed or how large is the danger of condensation. The quantity of water vapor which would be needed for saturation increases with increasing temperature. Similarly the relative humidity of a given air mass falls with increasing temperature. Temperature is therefore an important factor in assessing relative humidity and condensation.

Silica gel

Silica gel is a colourless amorphous silicic acid with a gel-like consistency. It has a large inner surface area. It is very hygroscopic and can be used as gelling agent, filtering or absorption material and desiccant. Normally coupled with an indicator, silica gel changes colour as soon as it absorbs water; the gel remains pourable and dimensionally stable even in saturated condition. It can be regenerated on a metallic sieve or on a baking tray at approx. 90–110 °C (a microwave oven is not suitable for regeneration!).

Dew point

The dew point is the temperature at which water vapour starts to condense.



SICCO by Bohlender GmbH Waltersberg 8 D 97947 Grünsfeld

Phone: +49 (0) 93 46 - 92 86-0 Fax: +49 (0) 93 46 - 92 86-51 Mail: info@sicco.de www.sicco.de

Bank details: Sparkasse Tauberfranken Sort code: 673 525 65 Account No.: 4 013 611 IBAN: DE 57 673 525 650 004 013 611 BIC: SOLADES1TBB