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Desiccators and Drying Cabinets



1000 sensitive substances and components.
The safe solution:

SICCO Desiccators and Glove Boxes



SICCO Desiccators for drying and storage

from page 4



SICCO Glove Box Pure with Transfer Chamber

from page 12



SICCO Mini-Desiccators for drying and storage

from page 14



SICCO Desiccators for drying/storage – **good to know.**



Panels

The transparent panels provide all-round visibility. Samples and products can be located from the outside and thus the air exchange due to the open door can be reduced.



Aluminium frame

The frame in aluminium offers a high stability and allows a modular set up and thus easy adaptation of our desiccators to customized requirements.



Rubber seal and magnetic catch

A circular rubber seal is glued on the door frame to protect it from damages during loading and unloading of the desiccator. Additionally, the seal is pressed onto the frame by the magnetic catch and closes the interior tightly.



Shelves

Depending on the model, up to four shelves are included in the scope of delivery and can be mounted in freely chooseable distances. All shelves are telescopic so their complete surface is perfectly reachable. Additional shelves can be reordered as needed.

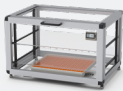
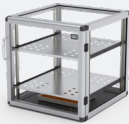


Desiccant and desiccant tray

For reducing the humidity inside the desiccator, we supply the desiccant silicagel. SICCO's silicagel has a colour indicator, which allows controlling its grade of saturation. The included tray in PBTP is a perfect match and can be used also for the regeneration of the silicagel in an oven. Further trays and silicagel in different package sizes are separately available.

SICCO Desiccators for drying / storage

Aluminium frame with acrylic glass panels, including shelves made of polycarbonate / stainless steel, tray for desiccant and hygrometer.

Typ	Star	Horizontal-Star	Big-Star	Tower-Star	Maxi 1-Desiccator	Maxi 2-Desiccator
						
SICCO Cat. No.:	V 1871-07	V 1899-07	V 1896-07	V 1938-07	V 1852-01	V 1853-01
Panels	transparent	transparent	transparent	transparent	transparent	transparent
Specification	4 shelves (max. 26 shelves)	wide format; door opens forward; 2 shelves (max. 13 shelves)	2 shelves (max. 8 pieces)	high format; door opens forward; 4 shelves (max. 38 shelves)	one door; 4 shelves (max. 17 shelves)	two doors; 4 shelves (max. 8 shelves per chamber)
Use	normal pressure	normal pressure	normal pressure	normal pressure	normal pressure	normal pressure
Temperature resistance °C	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Overall dimensions W x H x D in mm	310 x 525 x 375	525 x 340 x 375	560 x 560 x 580	310 x 735 x 375	560 x 1150 x 580	560 x 1150 x 580
Usable interior space W x H x D in mm	260 x 480 x 330	480 x 260 x 330	495 x 500 x 540	260 x 690 x 330	495 x 1030 x 540	495 x 500 x 540 per chamber
Usable volume Liter, approx.	51	51	156	73	311	156 per chamber
Weight kg, approx.	7	7	18	8	30	34
Total all-over load kg, approx.	30	30	80	40	160	80 per chamber
Stand	rubber feet, stackable	rubber feet, stackable	rubber feet, stackable	rubber feet, stackable	casters; 2 of them with brakes	casters; 2 of them with brakes
Silicagel included	yes	yes	no	no	no	no
*recomm. price Euro	937,08	1.199,44	2.100,53	1.462,03	3.444,54	4.333,58



Special requirements? Customized!

As manufacturer, we enable customized solutions, often faster and more economic than you can imagine. Just talk to our experts about your ideas – we support you from conception to production, even from quantity 1.

SICCO Dolly-Desiccator

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

Aluminium frame with panels made of acrylic glass, work top made of aluminium, including four shelves made of stainless steel, tray and hygrometer, four casters (two of them with brakes), lateral bow-type handle, usable with up to 28 shelves.

Cat. No.: / * recomm. price Euro	V 1760-07 / 3.102,04
Overall dimensions* W x H x D mm	600 x 900 x 430
Usable interior space W x H x D mm	550 x 850 x 350
Capacity liters	195
Weight kg/ approx.	27
Maximum all-over load per shelf kg	30 / 160
Usable floor space per shelf	527 x 365
Minimum distance between shelves	17

*Overall dimensions are frame dimensions without add-on parts, measured in height from the base

Applications:

Aluminium work top usable as storage space during setting and removal as well as enlargement of existing work space. By means of the bow-type handle and the smooth-running casters, the loaded wagon can be moved easily through pushing and pulling it. Low depth for the use in tight spaces.



SICCO Star-Desiccator Double

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

Specification:

Aluminium frame with panels made of stainless steel and double door, including four shelves made of stainless steel, hygrometer and desiccant, usable with up to 26 shelves, stackable.

Cat. No.: / * recomm. price Euro	V 1930-07 / 1.784,36
Overall dimensions* W x H x D mm	630 x 520 x 375
Usable interior space W x H x D mm	570 x 480 x 330
Capacity liters	106
Weight kg/ approx.	13
Maximum all-over load per shelf kg	10
Usable floor space per shelf	30
Minimum distance between shelves	7,5
Additional shelves including rails	V 1860-61

*Overall dimensions are frame dimensions without add-on parts, measured in height from the base

Applications:

Especially suitable for wide products such as A3 sheets or conductor boards. The doors can be easily opened right- and left-hand-sided, for easy loading and unloading. The bar on the left door serves as stopper for the door sealing.



SICCO Maxi 1-Desiccator Horizontal

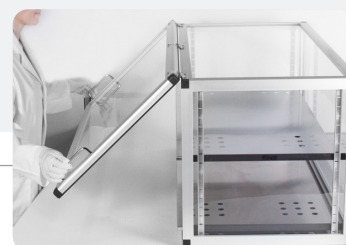
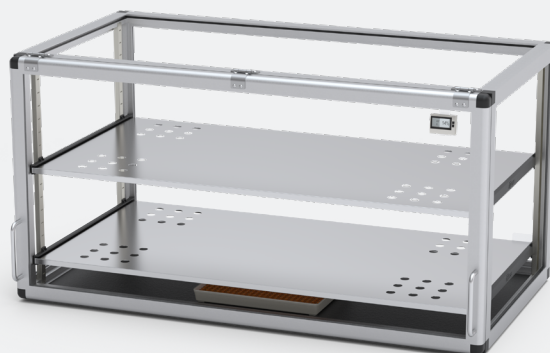
Panels: clear	Material: PMMA	Temperature resistance: -20 °C to +70 °C	Use: normal pressure	Stand: rubber feet
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Specification:

Aluminium frame with panels made of acrylic glass, including two shelves made of stainless steel, tray and hygrometer, usable with up to 9 shelves, stackable.

Cat. No.: / *recomm. price Euro	V 1835-07 / 3.456,22
Overall dimensions:* W x H x D in mm	1080 x 555 x 580
Usable interior space W x H x D in mm	1030 x 500 x 500
Capacity liters	311
Weight kg/ approx.	29
Maximum all-over load per shelf	30 / 160
Usable floor space per shelf	1000 x 515
Minimum distance between shelves	39
Additional shelves including rails	V 1860-05

*Overall dimensions are frame dimensions without add-on parts, measured in height from the base



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SICCO Glove Boxes – **good to know.**



Position of the glove port openings

Distance and diameter of the glove port openings are ergonomically designed. The complete workspace is accessible.



Transfer Chamber

Through the lateral transfer chamber, products can be easily inserted into the workspace. The transfer chamber can be flushed with gas separately. The tray extends into the workspace for easy removal of inserted products.



Generous Working Scope

All SICCO Glove Boxes offer a generous working space. The glove ports give access to the all areas and thus the complete surface can be used



Cable lead-ins

For lead-in of cables for electrical power supply for devices (such as scales) in the glove box or insertion of measuring probes to control e. g. humidity or oxygen content.

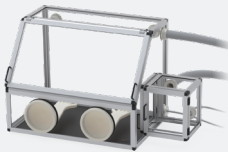
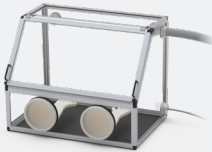


Suitable model for all requirements

The modular aluminium frame allows simple adaptations for standard and custom manufactures. Our standard models can be newly combined on request and their dimensions adapted to your requirements.

SICCO Glove Boxes

Aluminium frame with panels made of acrylic glass / borosilicate glass, including two cable lead-ins on the back side, front panels with two glove ports.

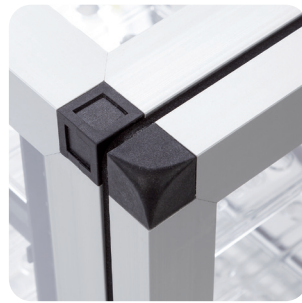
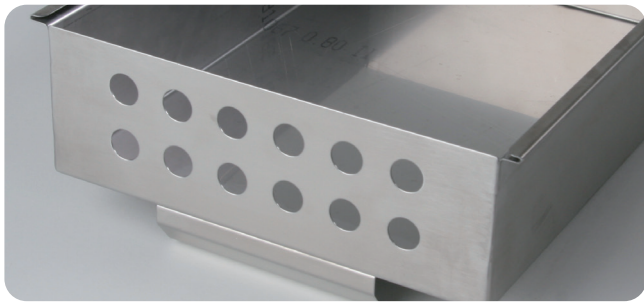
Type	Glove Box with Transfer Chamber	Glove Box	Glove Box for Exhaustion	Mini Glove Box
				
SICCO Cat. No.:	V 1982-08	V 1984-08	V 1988-08	V 1705-08
Panels	acrylic glass	acrylic glass	acrylic glass	polycarbonate
Specification	Base panel made of PE, incl. tubing connectors and suitable tubing for gas-filling and aeration of workspace and transfer chamber.	Base panel made of PE, incl. tubing connectors and suitable tubing for gas-filling and aeration of workspace and transfer chamber.	Base panel made of PE, integrated connector for exhaustion and closing lid. Special Iris-Port openings and cable lead-ins ensure pressure compensation through air streaming when the exhaust system is switched on.	Panels and base panel made of acrylic glass, glove ports sideways with Iris ports (one on the right-hand side, one on the left-hand side). For easy handling of small quantities in a closed working space. Easily transportable due to their light weight. Iris Ports can be easily exchanged by simple gloves for ports with Ø 190 mm for tight sealing.
Use	normal pressure	normal pressure	normal pressure	normal pressure
Temperature resistance °C	-20 to +70	-20 to +70	-20 to +70	-20 bis +70
Overall dimensions W x H x D mm	1210 x 700 x 600	850 x 650 x 540	890 x 700 x 600	300 x 400 x 400
Usable interior space W x H x D mm	850 x 650 x 540	850 x 650 x 540	850 x 650 x 540	290 x 390 x 390
Usable volume Liter, approx.	290	290	290	34
Weight kg, approx.	20	14	16	5,7
Total all-over load kg, approx.	40	40	40	10
Stand	rubber feet	rubber feet	rubber feet	rubber feet
Glove ports	Natural rubber gloves size 9	Natural rubber gloves size 9	Iris-Port openings	Iris-Port openings
Transfer chamber	yes	no	no	no
*recomm. price Euro	5.392,54	3.927,29	3.930,56	1.777,00

SICCO INNOVATION



#1 Transfer chamber opens to front.

Or 100 Percent Individuality: **Made to measure.**



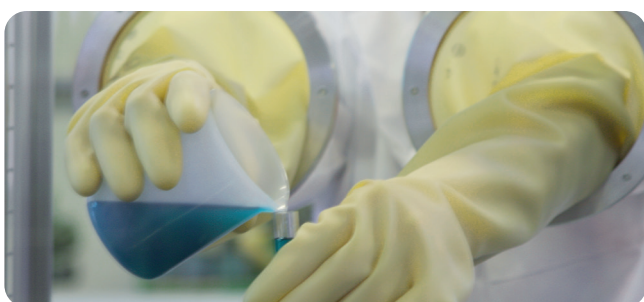
The SICCO standard product range already covers many extras and special requests. You are looking, however, for a special solution. Something that even BOHLENDER does not have in stock?

In this case we as a manufacturer offer "made to measure"-service. Just talk to our experts about your ideas, we will be glad to assist you – beginning with the construction and realizing manufacture exactly as per your request, starting with 1 piece. We only need a drawing (an approximate draft is enough) and some information.

Just give us a call +49 (0) 9346 9286-0 or send your enquiry by mail to info@sicco.de. We will contact you to discuss details. Afterwards, you will receive our non-binding and cost-free quotation.

Check-list for your Desiccator "made to measure":

- ✓ What is the application the desiccator is used for?
- ✓ Which outside dimensions should your desiccator have?
- ✓ What should be stored?
- ✓ What material do you need for the desiccator panels?
- ✓ How many shelves do you need?
- ✓ What is the maximum expected weight? Per shelf, per desiccator?
- ✓ Which accessories do you need (lock, connectors for gas-filling ...)?
- ✓ How many desiccators do you need?
- ✓ What is the maximum budget you would like to spend per desiccator?



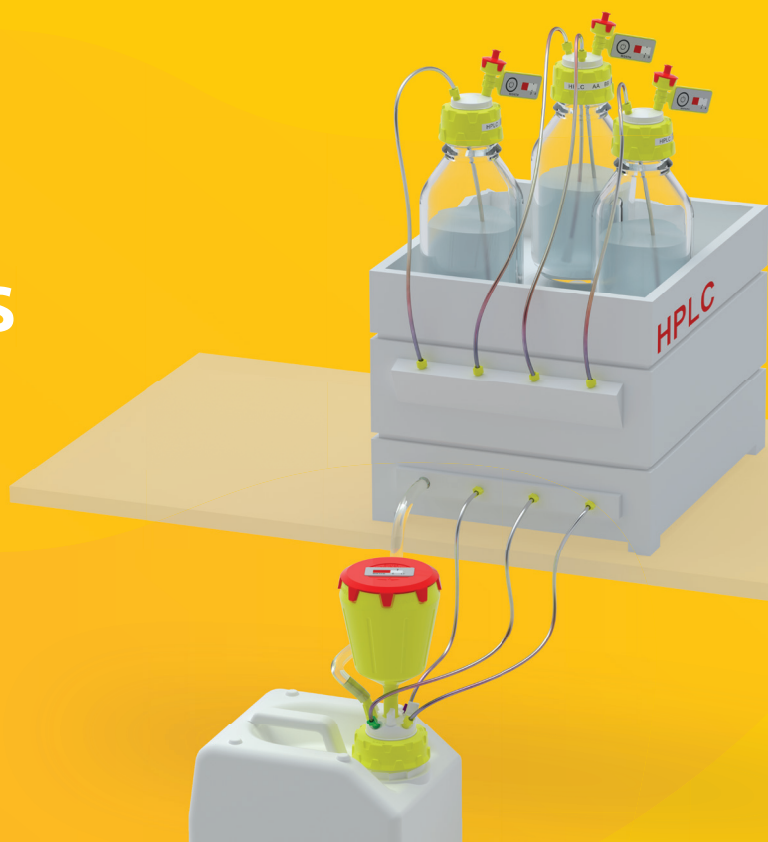
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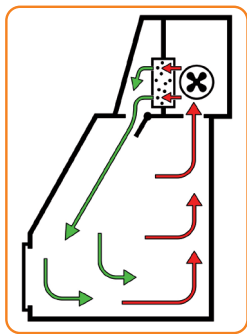
How to work with:

The SICCO Glove Box Air Stream with Transfer Chamber

Glove Boxes are used whenever sensitive or hazardous materials or components have to be processed in an isolated environment. If a contamination with any kind of particles contained in ambient air has to be excluded, a highly pure atmosphere is needed. Using integrated HEPA filtration, a pure atmosphere can be produced inside the SICCO Glove Box Air Stream. The included filter H 14 traps more than 99,995 % of all particles bigger than 0,1 μm . The filter cartridge is

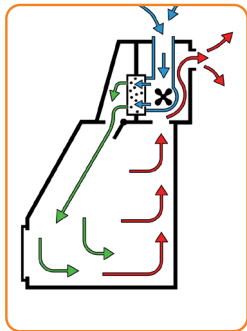
removable and can be exchanged against any filter with the built-in dimensions width 305 x height 305 x depth 78-83 mm. The saturation level of the filter is displayed by the integrated manometer on the front side. The fan is designed to convey normal, dry and not aggressive air, which contains only a small amount of dust. The motor and fan are maintenance-free and trouble-free.

SICCO's filtering unit with HEPA filtration offers three operating modes and is thus prepared for different tasks after a simple modification:



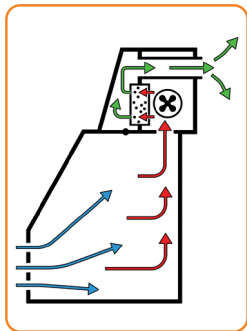
Internal Air Circulation Mode

Using this mode, the air in the workspace is continuously circulated. It is sucked on the rear wall, drawn in the filter and then the filtered air is blown back into the workspace along the front panel (delivery state).



Fresh Air Mode

When using the fresh air mode, ambient air is sucked into the filtering unit, led through the filter and blown back into the workspace along the front panel. The air inside the glove box is sucked in along the rear wall and transferred to the surrounding or a connected exhaust system. The fresh air mode requires a small modification: the angled pipe socket (included in delivery) has to be connected on the left side and the closing lid on the exhaust opening has to be removed. Accessories for connecting the glove box to an exhaust system are not included.



Exhaust Mode

Using the exhaust mode, the glove box can be flushed with ambient air but only filtered air will be conveyed to the surrounding. The fan sucks the air inside, leads it through the filter and blows filtered air out. For pressure compensation, ambient air is permanently sucked from the outside through the glove ports. The flow direction from the outside to the inside prevents at the same time an escape of contaminated air. For the exhaust mode, the pipe socket on the left has to be removed and this opening has to be closed with the included lid. Additionally, the air in let to the workspace is closed by turning the cover flap and the gloves have to be removed. On request, optionally available iris-ports can be put on the glove ports in order to reduce air exchange if the motor is switched off.

SICCO **Glove Box Air Stream with Transfer Chamber**

panels: clear Material: PMMA/PE Temperature resistance: -20 °C to + 70 °C User: normal pressure Stand: rubber feet

Specification:

Aluminium frame with panels made of acrylic glass, base panel made of polyethylene. Front panel with two glove ports and one pair of natural rubber gloves size 9, two lead-ins for cables on the back side (upper left and upper right). Transfer chamber with two doors on the right, external door with latch to prevent accidental opening, the tray extends into the workspace with opening of the internal door for easy removal of inserted products. Integrated HEPA filtering unit in the top side for a high-purity atmosphere in the workspace. Manometer to display the degree of filter saturation. Pipe sockets made of PE are included in delivery for converting to the different operating modes: internal air circulation, fresh air supply and exhaust. The conversion can be made without any tooling. Exchangeable filter cartridge. Maintenance-free and trouble-free motor. Electrical power connection 230 V / 50 Hz is required.

Cat. No.: / *recomm. price Euro	V 1745-08 / 11.621,80
Overall dimensions * W x H x D in mm	1210 x 1015 x 660
Usable interior space W x H x D in mm	850 x 650 x 540
Usable volume litres	290
Weight kg, approx.	42
Maximum all-over load kg	40
Opening for gloves mm	ø 190
Distance between openings for gloves mm	390
Hinged lid opening B x H in mm	850 x 425
Connections for gas filling – Diameter in mm	ø 9
Holes in panel in mm	ø 74,5

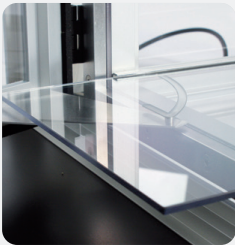
Details transfer chamber:	
Overall dimensions * W x H x D in mm	320 x 330 x 260
Usable interior space W x H x D in mm	220 x 275 x 320
Usable volume litres, approx.	24
Maximum usable height mm	275 » 1000 ml flask with thread GL 45
Maximum usable width mm	200
Maximum all-over load kg	3

Details Filter:	
Operating modes	internal air circulation, fresh air, exhaust
Filter class as per EN 1822:2009	H14
Filter performance (MPPS-method)	≥ 99,995 % of all particles > 0,1 µm are trapped
Filter cartridge dimensions W x H x D in mm	305 x 305 x 78
Installation depth of filter cartridge mm	78 - 83

Applications:

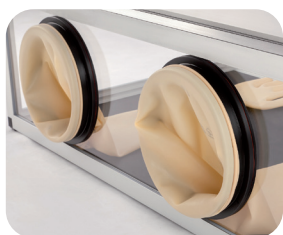
Inactivation of microorganisms such as bacteria through short-wave UVC radiation with a germicidal effect. For disinfecting the interior without chemical disinfectants or high temperatures.

*Overall dimensions are frame dimensions without add-on parts, measured in height from the base





SICCO Glove Box Pure with Transfer Chamber – **good to know.**



Disinfection without chemistry

Short-wave UVC radiation act sterilizing in order to inactivate microorganisms such as bacteria, mould and yeast fungus through sufficiently long radiation. You can resign from chemical disinfection



Easy handling

Switch on the UV lamp through the control switch on the front. After a short heating time of 30 seconds, all surfaces, being directly radiated with UV light, are disinfected. At the end of the radiation time, you can switch off the lamp and work further on with the glove box.



Lifetime Monitoring of the Lamp

In order to ensure a permanently effective disinfection, the lifetime of the UV-lamp is monitored. The control lamp indicates a necessary exchange.



Cable lead-ins

For power supply of electronic devices (such as balances) in the glove box or to introduce measuring probes to monitor humidity or oxygen content.

SICCO **Glove Box Pure with Transfer Chamber**

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

Specification:
Aluminium frame with panels made of acrylic glass, base panel made of polyethylene. Front panel with two glove ports and one pair of gloves size 9,75 made of UV-resistant EPDM. Transfer chamber with two doors on the right, external door with latch to prevent accidental opening, the tray extends into the workspace with opening of the internal door for easy removal of inserted products. Integrated ultraviolet lamp with life-time monitoring on the top side for air and surface disinfection in the workspace, exchangeable lamp. The ultraviolet lamp is an ozone-free radiation source that does not emit any radiation below 220 nm. Electrical power connection 230 V /50 Hz is required.

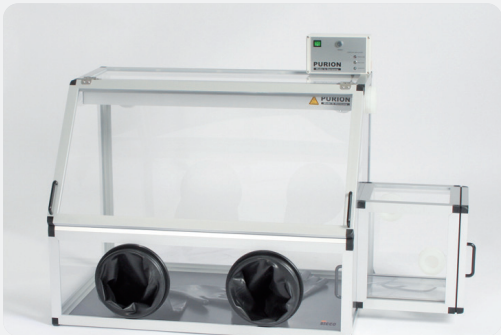
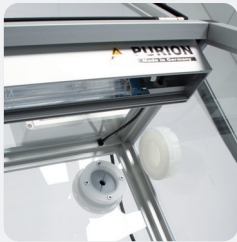
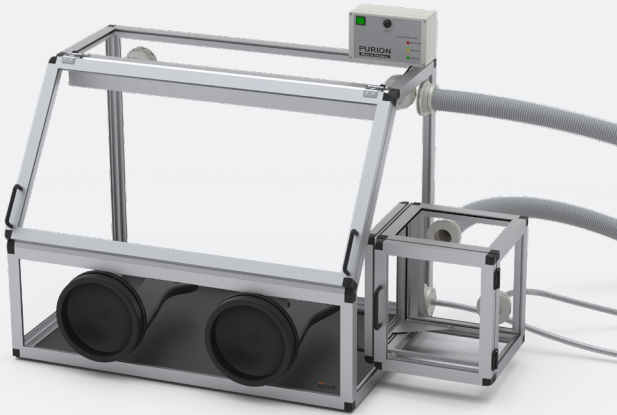
Cat. No. : / *recomm. price Euro	V 1740-08 / 7.780,07
Overall dimensions * W x H x D in mm	1210 x 700 x 600
Usable interior space W x H x D in mm	850 x 650 x 540
Usable volume litres	290
Weight kg, approx.	22
Maximum all-over load kg	40
Opening for gloves in mm	ø 190
Distance between glove ports mm	390
Hinged lid opening W x H in mm	850 x 425

Details transfer chamber:	
Overall dimensions * W x H x D in mm	320 x 330 x 260
Usable interior space W x H x D in mm	220 x 275 x 320
Usable volume litres	24
Maximum usable width in mm	275 » 1000 ml flask with thread GL 45
Maximum usable width mm	200
Maximum all-over load kg	3

Details Ultraviolet Lamp:	
Radiation width mm	660
Life time of lamp hours	10.000
Number of lamps	1
Temperature max. °C	40
Housing's type of protection	IP 65
Electrical power W	36
Warm-up period Seconds	ca. 30
Irradiation period Seconds, without warm-up period	approx. 135 for e.g. Salmonellae, anthrax, diphtheria, coccus, TBC, tetanus. Approx. 625 for e.g. pneumococci

Applications:
Inactivation of microorganisms such as bacteria by means of shortwave ultraviolet UVC-rays with germicidal effect. Disinfection of the interior space without any chemical disinfectants or high temperatures.

*Overall dimensions are frame dimensions without add-on parts, measured in height from the base





SICCO Mini-Desiccators

Body made of transparent Polycarbonate. The chambers of Mini-2- and Mini-3-Desiccators are permanently fixed.

Type	Mini 1 Basic	Mini 2 Basic	Mini 3 Basic	Mini 1 Premium	Mini 2 Premium	Mini 3 Premium
						
SICCO Cat. No.:	V 1850-01	V 1850-02	V 1850-03	V 1950-01	V 1950-02	V 1950-03
Panels	transparent	transparent	transparent	transparent	transparent	transparent
Specification	one door; (max. 2 shelves)	two doors; (max. 2 shelves per chamber)	three doors; (max. 2 shelves per chamber)	one door; 2 shelves; hygrometer; non-slip rubber feet	two doors; 2 shelves per chamber; hygrometer; non-slip rubber feet	three doors; 2 shelves per chamber; hygrometer; non-slip rubber feet
Use	Normal pressure	Normal pressure	Normal pressure	Normal pressure	Normal pressure	Normal pressure
Temperature resistance °C	-35 to +70	-35 to +70	-35 to +70	-35 to +70	-35 to +70	-35 to +70
External dimensions W x H x D in mm	221 x 183 x 214	221 x 362 x 214	221 x 540 x 214	221 x 183 x 214	221 x 362 x 214	221 x 540 x 214
Usable interior space W x H x D in mm	212 x 162 x 180	212 x 162 x 180 per chamber	212 x 162 x 180 per chamber	212 x 162 x 180	212 x 162 x 180 per chamber	212 x 162 x 180 per chamber
Usable volume Liter, ca.	6,2	6,2 per chamber	6,2 per chamber	6,2	6,2 per chamber	6,2 per chamber
Weight kg, ca.	0,9	1,8	2,7	0,9	1,8	2,7
Total all-over load kg, ca.	3	3 per chamber	3 per chamber	3	3 per chamber	3 per chamber
Stand	stackable	stackable	stackable	rubber feet, stackable	rubber feet, stackable	rubber feet, stackable
Including Silicagel	yes	yes	yes	yes	yes	yes
*recomm. price Euro	150,33	320,64	489,56	156,95	304,67	453,61

SICCO Mini-Desiccators – good to know.



Handy shape

Their dimensions allow an installation on every laboratory desktop. Direct access to the stored products where they are needed.



Low weight

Samples can be transported within the laboratory directly in the Mini-Desiccator. Permanent protection of your products from environmental influences.



One version for every application

Large choice of different versions available from stock.

SICCO Mini-Desiccators

Body made of transparent polycarbonate.

Type	Mini Secure Box Basic	Mini Mobile Basic	Mini for Gas-Filling Basic	Mini Secure Box Premium	Mini Mobile Premium	Mini for Gas-Filling Premium
						
SICCO Cat. No.:	V 1847-06	V 1848-06	V 1849-06	V 1947-06	V 1948-06	V 1949-06
Panels	transparent	transparent	transparent	transparent	transparent	transparent
Specification	one door; (max. 2 shelves); cylinder lock	one door; (max. 2 shelves); practical handle;	one door; (max. 2 shelves); connectors for gas-filling	one door; 2 shelves; cylinder lock; Hygrometer; non-slip rubber feet	one door; 2 shelves; practical handle; Hygrometer; non-slip rubber feet	one door; 2 shelves; connectors for gas-filling; Hygrometer; non-slip rubber feet
Use	Normal pressure	Normal pressure	Normal pressure	Normal pressure	Normal pressure	Normal pressure
Temperature resistance °C	-35 to +70	-35 to +70	-35 to +70	-35 to +70	-35 to +70	-35 to +70
External dimensions W x H x D in mm	221 x 183 x 214	221 x 183 x 214	221 x 183 x 214	221 x 183 x 214	221 x 183 x 214	221 x 183 x 214
Usable interior space W x H x D in mm	212 x 162 x 180	212 x 162 x 180	212 x 162 x 180	212 x 162 x 180	212 x 162 x 180	212 x 162 x 180
Usable volume Liter, ca.	6,2	6,2	6,2	6,2	6,2	6,2
Weight kg, ca.	1,0	1,0	0,9	1,0	1,0	0,9
Total all-over load kg, ca.	3	3	3	3	3	3
Stand	stackable	stackable	stackable	rubber feet, stackable	rubber feet, stackable	rubber feet, stackable
Including Silicagel	yes	yes	yes	yes	yes	yes
*Recommended price Euro	219,46	174,18	344,47	258,85	190,91	365,70

SICCO

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www.sicco.de

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