



1000 sensitive substances and components.
The safe solution:

SICCO Desiccators and Glove Boxes



SICCO Glove Boxes

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SICCO Desiccators Wall

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SICCO Desiccators for storing light - sensitive products

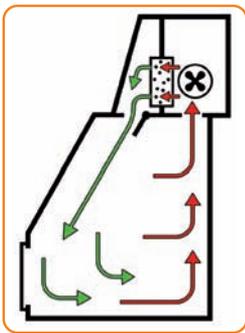
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How to work with: The SICCO Glove Box Air Stream with Transfer Chamber

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

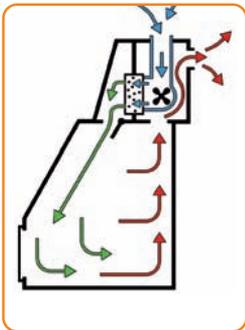
removable and can be exchanged against any filter with the built-in dimensions width 305 x height 305 x depth 78-83 mm. The saturation level of the filter is displayed by the integrated manometer on the front side. The fan is designed to convey normal, dry and not aggressive air, which contains only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



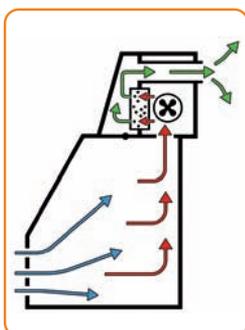
Internal Air Circulation Mode

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.

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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.

NEW

Cat. No.: / *recomm. price Euro	V 1745-08 / 10.891,98 Euro
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
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:

For working in a highly pure atmosphere.



SICCO Glove Boxes



SICCO Glove Boxes Pure with Transfer Chamber – worth knowing.



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.



Glove Boxes

The Glove Boxes Duo offer generous work surfaces. The openings are positioned so that all areas of the interior are accessible. Depending on the application, two persons can use the glove box at the same time.



Isolation

The integrated UV radiator does not emit any ozone. The acrylic glass panels completely isolate UV radiation so that no radiation is emitted into the environment. During operation, either UV resistant gloves (included in the scope of delivery) or a closing lid must be mounted.



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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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.

NEW

Cat. No.: / *recomm. price Euro	V 1740-08 / 7.725,05 Euro
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	approx. 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.



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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SICCO Glove Boxes



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.

**Graded exhaust connector**

By means of an exhaust connector, our Glove Box can be connected directly to an exhaust system. The graded exhaust connector allows connection of different tube diameters.

**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	5.379,10	4.058,63	3.874,51	1.755,73

SICCO INNOVATION



#1 Transfer chamber opens to front.

SICCO Super-Desiccators Wall

How to work with: Working with the SICCO Super-Desiccator Wall

The SICCO Super-Desiccator Wall enables an easy storage of your products in an inert and dry atmosphere with low oxygen by flushing the compartments, for example, with nitrogen. Please note that the desiccator wall is not suitable for an operation under pressure or vacuum as during gas purging the exhaust air connection always has to be open.

A number of clever features makes the SICCO Super-Desiccator Wall easy in operation and allows an efficient gas purging.



Safely locked

Six individual compartments, each with a door with magnetic catch and cylinder lock. Protect your samples and products from unauthorized access or unwanted air exchange. The interior space can be used optimally by ordering additional shelves.



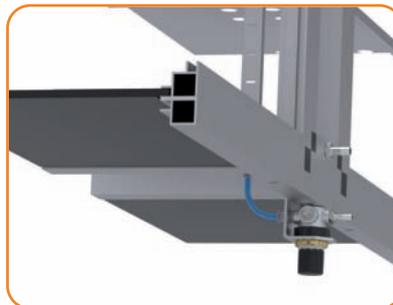
Flexible in use

Each compartment is equipped with a flow meter, which allows an easy control of the individual gas supply. If a compartment is not used, the gas supply can easily be stopped. Hygrometers at the doorframes with easy-to-read displays show the relative humidity in each compartment.



No tubing mess

The pipes for flushing each compartment with gas are placed inside the frame and are connected to a central gas supply. A pressure regulator ensures an even gas flow. The exhaust air pipes are also connected centrally and in this way, two pipelines are enough to supply all compartments with gas and discharge exhaust air.



Easy relocation

The desiccator wall is equipped with four casters so it can easily be moved and positioned. Two of them are with brakes to keep the desiccator in a safe position.



SICCO Super-Desiccator Wall

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

Description:

Aluminium frame with panels made of acrylic glass, six compartments and six doors with cylinder lock, including six hygrometers, six trays and six shelves made of stainless steel, usable with up to 8 shelves per compartment, with four casters (two with brakes) and central connection for exhaust air and gas filling including pressure regulator at rear side. A pipe system leads the gas into the individual compartments; each compartment is equipped with a flow meter to control the gas supply, a non-return valve at the exhaust air connection of each compartment prevents gas from flowing back into the compartment. Tubes for gas filling are not included.



Cat. No.: / *recomm. price Euro	V 1996-08 / 13.764,91 Euro
Overall dimensions* W x H x D mm	1240 x 1866 x 583
Usable interior space W x H x D mm	502 x 502 x 502 per chamber
Interior volume liter	126 per chamber
Weight approx. kg	86
Maximum all-over load per shelf kg	30
Maximum all-over load kg	80 per chamber
Total all-over load kg	200
Ground clearance of lowest chamber in mm	258
Connection gas supply tubing I.D. mm	6
Connection exhaust air tubing I.D. mm	9



* Recommended prices valid until 31.12.2024



Visit us at **ACHEMA 2024 (Hall 12/D98)** from 10-14 June in Frankfurt am Main and experience us and our products up close.



SICCO Super-Desiccators for gas-filling



SICCO Desiccators for gas-filling – good to know.



Quick couplings for tubes

Adapted for the connection of the delivered tubes for gas-filling. Through an integrated valve, the couplings are sealed in case no tubing is connected.



Cylinder lock

Avoids unintended opening of the desiccator and thus escape of introduced gases. The cylinder lock is already delivered with the model Super-Star-Desiccator, all other sizes can be equipped with this modification on request.



Hygrometer

The Hygrometer is fixed at the door and does not handicap the user during loading or unloading of the desiccator.



Shelves

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



Panels

The desiccator offers a all-round visibility. You can either choose panels made of acrylic or borosilicate glass and in all dimensions.

SICCO Super Desiccators

Aluminium frame with transparent panels, including shelves, tray for desiccant, hygrometer and tubing (L=5m) with two quick couplings for gas-filling.

Type	Super-Star	Super-Star-Vitrum	Super-Big-Star	Super-Maxi 1	Super-Maxi 2	Mini for Gas-Filling Premium
						
SICCO Cat. No.:	V 1875-07	V 1825-07	V 1935-07	V 1932-01	V 1933-01	V 1949-06
Panels	acrylic glass	borosilicate glass	acrylic glass	acrylic glass	acrylic glass	polycarbonate
Specification	4 shelves made of Polycarbonate (max. 26 shelves)	4 shelves made of stainless steel (max. 26 shelves)	2 shelves made of stainless steel (max. 8 shelves)	one door; 4 shelves made of stainless steel (max. 17 shelves)	two doors; 4 shelves made of stainless steel (max. 16 shelves)	2 shelves made of acrylic glass
Use	normal pressure	normal pressure	normal pressure	normal pressure	normal pressure	normal pressure
Temperature resistance °C	-20 to +70	-20 to +150	-20 to +70	-20 to +70	-20 to +70	-35 to +70
Overall dimensions W x H x D mm	310 x 525 x 375	310 x 525 x 375	560 x 560 x 580	560 x 1150 x 580	560 x 1150 x 580	221 x 183 x 214
Usable interior space W x H x D mm	260 x 480 x 330	260 x 480 x 330	495 x 500 x 540	495 x 1030 x 540	495 x 500 x 540 per compartment	212 x 162 x 180
Usable volume Liter, approx.	51	51	156	311	156 per compartment	6,2
Weight kg, approx.	7	15	18	30	34	0,9
Total all-over load kg, approx.	30	30	80	160	80 per compartment	3
Stand	rubber feet, stackable	rubber feet, stackable	rubber feet, stackable	casters; two of them with brakes	casters; two of them with brakes	rubber feet, stackable
Silicagel included	yes	yes	no	no	no	yes
*recomm. price Euro	1.189,81	1.805,23	2.132,96	3.757,49	4.748,91	365,70

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SICCO Desiccators for drying and storage

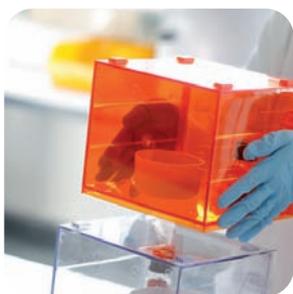


SICCO Desiccators Protect

Aluminium frame with panels made of orange acrylic glass panels for reduced light incidence. Mini-Desiccators made of polycarbonate. Including shelves made of polycarbonate / stainless steel.

Type	Star-Protect	Big-Star Protect	Maxi 1 Protect	Maxi 2 Protect	Mini Basic Protect	Mini Premium Protect
						
SICCO Cat. No.:	V 1879-07	V 1926-07	V 1927-07	V 1928-07	V 1842-06	V 1942-06
Panels	orange	orange	orange	orange	orange	orange
Specification	one door; 4 shelves (max. 26 shelves); Hygrometer; Tray for desiccant	one door; 2 shelves (max. 8 shelves); Hygrometer; Tray for desiccant	one door; 4 shelves (max. 17 shelves); Hygrometer; Tray for desiccant	two doors; 4 shelves (max. 8 shelves per chamber); Hygrometer; Tray for desiccant	one door; (max. 2 shelves)	one door; 2 shelves; Hygrometer; non-slip rubber feet
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	-35 to +70	-35 to +70
External dimensions W x H x D in mm	310 x 525 x 375	560 x 560 x 580	560 x 1150 x 580	560 x 1150 x 580	221 x 183 x 21	221 x 183 x 21
Usable interior space W x H x D in mm	260 x 480 x 330	495 x 500 x 540	495 x 1030 x 540	495 x 500 x 540 per chamber	212 x 162 x 180	212 x 162 x 180
Usable volume Liter, approx.	51	156	311	156 per chamber	6,2	6,2
Weight kg, approx.	7	18	30	34	0,9	0,9
Total all-over load kg, approx.	30	80	160	80 per chamber	3	3
Stand	rubber feet, stackable	rubber feet, stackable	casters; 2 of them with brakes	casters; 2 of them with brakes	stackable	rubber feet, stackable
Including Silicagel	yes	no	no	no	yes	yes
*Recommended price Euro	1.226,27 €	2.213,90 €	3.958,60 €	5.064,49 €	183,62 €	206,60 €

SICCO light-protected Desiccators – good to know.



- 
Orange panels
 Reduced light incidence and transparent panels for monitoring the stored products.
- 
Black panels
 Black panels prevent light incidence and protect against ultraviolet radiation. For storage of light-sensitive substances and products.
- 
Different standard sizes
 Adapted for the quantity and size of the stored products, these desiccators are available in different sizes and versions from stock.

SICCO Desiccators Black

Aluminium frames with panels made of black acrylic glass prevent light incidence and protection against ultraviolet radiation, Mini-Desiccators made of polycarbonate. Including shelves made of polycarbonate / stainless steel.

Type	Star-Black	Big-Star-Black	Maxi 1 Black	Maxi 2 Black	Mini Black Basic	Mini Black Premium
						
SICCO Cat. No.:	V 1891-07	V 1939-07	V 1936-07	V 1937-07	V 1840-06	V 1940-06
Panels	black	black	black	black	black	black
Specification	one door; 4 shelves (max. 26 shelves); Hygrometer; Tray for desiccant	one door; 2 shelves (max. 8 shelves); Hygrometer; Tray for desiccant	one door; 4 shelves (max. 17 shelves); Hygrometer; Tray for desiccant	two doors; 4 shelves (max. 8 shelves per chamber); Hygrometer; Tray for desiccant	one door; (max. 2 shelves)	one door; 2 shelves; Hygrometer; non-slip rubber feet
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	-35 to +70	-35 to +70
External dimensions W x H x D in mm	310 x 525 x 375	560 x 560 x 580	560 x 1150 x 580	560 x 1150 x 580	221 x 183 x 21	221 x 183 x 21
Usable interior space W x H x D in mm	260 x 480 x 330	495 x 500 x 540	495 x 1030 x 540	495 x 500 x 540 per chamber	212 x 162 x 180	212 x 162 x 180
Usable volume Liter, approx.	51	156	311	156 per chamber	6,2	6,2
Weight kg, approx.	7	18	30	34	0,9	0,9
Total all-over load kg, approx.	30	80	160	80 per chamber	3	3
Stand	rubber feet, stackable	rubber feet, stackable	casters; 2 of them with brakes	casters; 2 of them with brakes	stackable	rubber feet, stackable
Including Silicagel	yes	no	no	no	yes	yes
*Recommended price Euro	1.152,90 €	2.217,41 €	3.924,33 €	4.981,22 €	199,67 €	211,22 €