



1000 sensitive substances and components.  
The safe solution:  
**SICCO Desiccators and Glove Boxes**



**SICCO Glove Box Air Stream with integrated HEPA filter for working in highly pure atmosphere**

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**Sterile working in the SICCO Glove Box Pure through disinfection with UV radiation**

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**Storing products, probes and retain samples dust-free and dry**

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

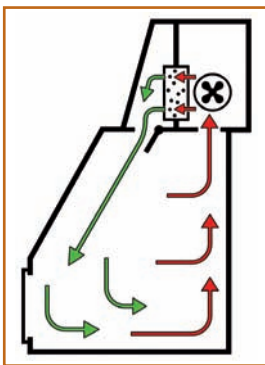
Glove Boxes are used whenever sensitive or hazardous materials or components have to be processed in an isolated environment. If a contamination with any kind of particles contained in ambient air has to be excluded, a highly pure atmosphere is needed. Using integrated HEPA filtration, a pure atmosphere 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.

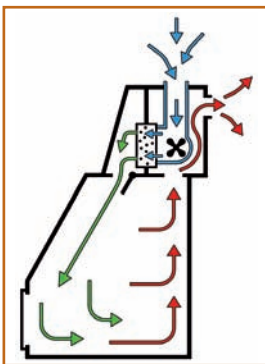
The fan is designed to convey normal, dry and not aggressive air, which contains only a small amount of dust. The motor and fan are maintenance-free and trouble-free.

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



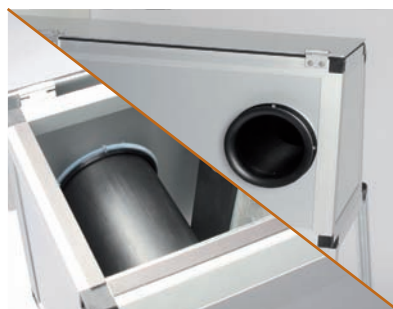
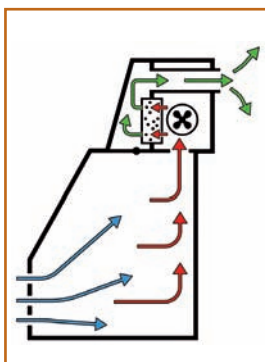
**Internal Air Circulation Mode**

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 inlet 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
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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 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.

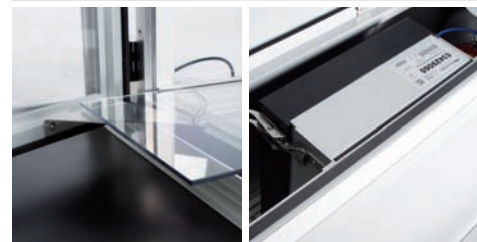
Pipe sockets made of PE are included in delivery for converting to the different operating modes: internal air circulation, fresh air supply and exhaust. The conversion can be made without any tooling. Exchangeable filter cartridge. Maintenance-free and trouble-free motor. Electrical power connection 230 V / 50 Hz is required.

**NEW**

<b>Cat. No.:</b> / * <b>recomm. price Euro</b>	<b>V 1745-08S / 9.065,54 Euro</b>
<b>Overall dimensions*</b> W x H x D in mm	1210 x 1015 x 660
<b>Usable interior space</b> W x H x D in mm	850 x 650 x 540
<b>Usable volume</b> litres	290
<b>Weight</b> kg, approx.	42
<b>Maximum all-over load</b> kg	40
<b>Opening for gloves</b> mm	ø 190
<b>Distance between openings for gloves</b> mm	390
<b>Hinged lid opening</b> B x H in mm	850 x 425
<b>Details transfer chamber:</b>	
<b>Overall dimensions*</b> W x H x D in mm	320 x 330 x 260
<b>Usable interior space</b> W x H x D in mm	220 x 275 x 320
<b>Usable volume</b> litres, approx.	24
<b>Maximum usable height</b> mm	275 » 1000 ml flask with thread GL 45
<b>Maximum usable width</b> mm	200
<b>Maximum all-over load</b> kg	3
<b>Details Filter:</b>	
<b>Operating modes</b>	internal air circulation, fresh air, exhaust
<b>Filter class as per EN 1822:2009</b>	H14
<b>Filter performance (MPPS-method)</b>	≥ 99,995 % of all particles > 0,1 µm are trapped
<b>Filter cartridge dimensions</b> W x H x D in mm	305 x 305 x 78
<b>Installation depth of filter cartridge</b> mm	78 - 83

### Applications:

For working in a highly pure atmosphere.





## 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.



### Lifetime monitoring of the illuminant

To ensure constantly effective disinfection, the illuminant lifetime is permanently monitored. If an exchange is necessary, a control lamps shines.



### 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**

<b>Cat. No.:</b> / *recomm. price Euro	<b>V 1740-08S</b> / 6.271,45 Euro
<b>Overall dimensions*</b> W x H x D in mm	1210 x 700 x 600
<b>Usable interior space</b> W x H x D in mm	850 x 650 x 540
<b>Usable volume</b> litres	290
<b>Weight</b> kg, approx.	22
<b>Maximum all-over load</b> kg	40
<b>Opening for gloves</b> in mm	ø 190
<b>Distance between glove ports</b> mm	390
<b>Hinged lid opening</b> W x H in mm	850 x 425
<b>Details transfer chamber:</b>	
<b>Overall dimensions*</b> W x H x D in mm	320 x 330 x 260
<b>Usable interior space</b> W x H x D in mm	220 x 275 x 320
<b>Usable volume</b> litres	24
<b>Maximum usable width</b> in mm	275 » 1000 ml flask with thread GL 45
<b>Maximum usable width</b> mm	200
<b>Maximum all-over load</b> kg	3
<b>Details Ultraviolet Lamp:</b>	
<b>Radiation width</b> mm	660
<b>Life time of lamp</b> hours	10.000
<b>Number of lamps</b>	1
<b>Temperature max.</b> °C	40
<b>Housing's type of protection</b>	IP 65
<b>Electrical power</b> W	36
<b>Warm-up period</b> Seconds	approx. 30
<b>Irradiation period</b> Seconds, without warm-up period	approx. 135 for e.g. Salmonellae, an-thrax, 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.





## 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.







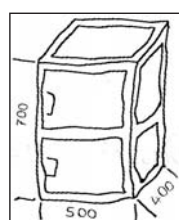
### Suitable model for all requirements

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 Vitrum with Transfer Chamber	Glove Box	Glove Box for Exhaustion
				
SICCO Cat. No.:	V 1982-08S	V 1986-08S	V 1984-08S	V 1988-08S
Panels	acrylic glass	borosilicate glass	acrylic glass	acrylic glass
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 stainless steel, 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.
Use	normal pressure	normal pressure	normal pressure	normal pressure
Temperature resistance °C	-20 to +70	-20 to +120	-20 to +70	-20 to +70
Overall dimensions W x H x D mm	1210 x 700 x 600	1210 x 700 x 600	850 x 650 x 540	890 x 700 x 600
Usable interior space W x H x D mm	850 x 650 x 540	850 x 650 x 540	850 x 650 x 540	850 x 650 x 540
Usable volume Liter, approx.	290	290	290	290
Weight kg, approx.	20	36	14	16
Total all-over load kg, approx.	40	40	40	40
Stand	rubber feet	rubber feet	rubber feet	rubber feet
Glove ports	Natural rubber gloves size 9	Natural rubber gloves size 9	Natural rubber gloves size 9	Iris-Port openings
Transfer chamber	yes	yes	no	no
*recomm. price Euro	4.209,69 €	6.811,22 €	3.092,95 €	2.899,85 €



## SICCO offers custom manufacture.

You are looking for an individual solution for your application?

As a manufacturer we offer custom manufactures as per your individual needs. Just discuss your ideas with our experts – we look forward to advise and assist you from construction to production of your product exactly as per your specification.

Just give us a call: **+49 (0) 93 46-92 86-0**.

We look forward to discuss all details and give you free, non obligation quote.

\* Recommended prices valid until 31.12.2021

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### SICCO Mini Glove Box

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

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).

<b>Cat. No. / *recomm. price Euro</b>	<b>V 1705-08S / 1.496,86 Euro</b>
<b>Overall dimensions *</b> W x H x D mm	300 x 400 x 400
<b>Usable interior space</b> W x H x D mm	290 x 390 x 390
<b>Usable volume</b> litres	34
<b>Weight</b> kg, approx.	5,7
<b>Maximum all-over load</b> kg	10
<b>Opening for gloves</b> mm	ø 190

**Applications:**

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.



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## Standard plus: our modifications...

The SICCO range already offers many options and a wide range of accessories for different applications. Moreover, we offer you to adapt our standard products according to your requirements. Sometimes it is only a small detail that has to be modified or added such as a modified door stop or additional entry ports.

Your benefit is an individual product as well as fast availability due to short-term realization of the modification. And what is your special request? We will be pleased to assist you: Just give us a call **+49 (0) 9346 9286-0** or send your enquiry to [info@sicco.de](mailto:info@sicco.de)

Standard

Modification



A big flap instead of the split door for the supreme chamber.



Open-minded for your plans: A closing device with gas-pressure spring instead of a traditional hinge-joint.



Open for new possibilities - for example a desiccator wall with additional ports for one pair of gloves per compartment.



Flexible: additional cable lead-ins can be placed freely, whether for further electronic devices or the insertion of probes and tubes.



Thought out in every detail: Additional, mechanical door opener especially for large-format desiccators with double door.

# Fields of application of Desiccators.

## Appropriate solutions for any requirements

SICCO Desiccators and drying cabinets are used in different sectors. Available in different sizes as well as with a maximum of flexibility and functionality, they are covering the full spectrum of protected drying and storage.

Discover the large choice by means of some real life examples...



**Tobacco industry:**  
**Product-friendly long-term storage of tobacco and paper.**

For example the SICCO Auto-Star-Desiccator for automatic drying at constant humidity between 20 and 30%.



**Metallography:**  
**Stable storage of minerals and stones.**

For example the SICCO Maxi 1-Desiccator as robust depository with a frame made of aluminium profiles and shelves made of stainless steel for a total overload up to 160 kilos.



**Industry/Laboratory:**  
**Safe storage of retained samples.**

For example the SICCO Super-Star-Desiccator that is usable with up to 26 acrylic glass shelves, circular rubber seal and cylinder lock.



**Laboratory:**  
**Non-hazardous storage of bottles with toxic substances.**

For example with the SICCO Maxi 2-Desiccator Vitrum that has two separate compartments with door, tray and hygrometer as well as borosilicate glass panels.



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## 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

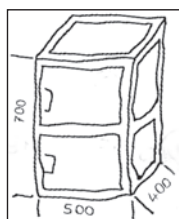
For reducing the humidity inside the desiccator, we supply the desiccant silicagel. SICCO's silicagel has a colour indicator, which allows controlling its grade of saturation. The included tray in PBTP is a perfect match and can be used also for the regeneration of the silicagel in an oven. Further trays 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 1871-07S	V 1899-07S	V 1896-07S	V 1938-07S	V 1852-01S	V 1853-01S
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
*Recommended price Euro	766,56 €	928,59 €	1.661,76 €	1.076,06 €	2.698,25 €	3.269,57 €



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## SICCO Automatic Desiccators – good to know.



### Automatic Drying

Integrated drying units withdraw the inside relative humidity in the desiccator by means of Silicagel.



### Aluminium frame

The Aluminium frame allows a modular set-up and thus easy adaption to customized dimensions.



### 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.



### Hygrometer

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






### Rubber seal and magnetic catch

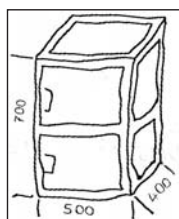
A circular rubber seal is on glued on the door frame to avoid damages during loading and unloading of the desiccator. Additionally, the seal is pressed onto the frame by the magnetic catch and closes the interior tightly.

## SICCO Automatic Desiccators

Aluminium frame with panels made of acrylic glass / borosilicate glass, rear panels made of aluminium/ acrylic glass, including shelves made of polycarbonate / stainless steel, hygrometer and premounted drying unit. Electrical power connection 230 V / 50 Hz is required.

Type	Auto-Star	Auto-Star-Vitrum	Auto-Big-Star	Auto-Maxi 1	Auto-Maxi 2
					
SICCO Cat. No.:	V 1877-07S	V 1823-07S	V 1894-07S	V 1914-01S	V 1916-01S
Panels	acrylic glass	borosilicate glass	acrylic glass	acrylic glass	acrylic glass
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. 8 shelves per compartment)
Use	normal pressure	normal pressure	normal pressure	normal pressure	normal pressure
Temperature resistance °C	-20 to +70	-20 to +120	-20 to +70	-20 to +70	-20 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
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
Usable volume Liter, approx.	51	51	156	311	156 per compartment
Weight kg, approx.	7,3	13,5	22	31	35
Total all-over load kg, approx.	30	30	80	160	80 per compartment
Stand	rubber feet, stackable	rubber feet, stackable	rubber feet, stackable	casters; two of them with brakes	casters; two of them with brakes
Silicagel included	no	no	no	no	no
*recomm. price Euro	1.453,58 €	1.790,81 €	2.269,25 €	4.519,24 €	5.076,63 €

« »  
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