

SICCO Mini-Desiccators Basic, Cat.-No.: V 1840-06, V 1842-06, V 1843-06, V 1847-06, V 1848-06, V 1849-06, V 1850-01, V 1850-02 and V 1850-03.

OPERATING INSTRUCTIONS

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SICCO Mini-Desiccator Basic
1 compartment
Cat.-No.: V 1850-01



SICCO Mini-Desiccator Basic
2 compartments
Cat.-No.: V 1850-02



SICCO Mini-Exsikkatoren Basic
3 compartments
Cat.-No.: V 1850-03



Mini-Desiccator
Protect Basic
Cat.-No.: V 1842-06



Mini- Desiccator
Black Basic
Cat.-No.: V 1840-06



SICCO Mini-Desiccator
For Gas Filling Basic
Cat.-No.: V 1849-06



SICCO Mini-Desiccator
Secure Box Basic
Cat.-No.: V 1847-06



SICCO Mini-Desiccator
Antistatic Basic
Cat.-No.: V 1843-06



SICCO Mini-Desiccator
Mobile Basic
Cat.-No.: V 1848-06



Please read the information listed below thoroughly. We urgently ask you to observe the instructions about security, use and maintenance.

SICCO Mini-Desiccators are made of high-quality plastic material. They are made for safe and secure storage of humidity-sensitive products as well as of optical and microelectronic parts in a dust-free atmosphere.

This happens by adding Silica gel which considerably reduces the air humidity by its absorbing effect.

1. Supplied with

1 Mini-Desiccator Basic

1 Jar with Silica gel (23 g)

2 Jars with Silica gel (only Mini-Desiccator Basic with 2 compartments)

3 Jars of Silica gel (only Mini-Desiccator Basic with 3 compartments)

2 Connections for gas filling with quick couplings and hose (5 m) (SICCO Mini Desiccator Basic for Gas Filling only)

2 Keys (Mini Desiccator Secure Box Basic only)

1 Operating Instructions

2. Security instructions

- » Do not take a damaged desiccator into operation.
- » Do not store any solvents or acids in the desiccator.
- » Do not put any explosive or inflammable products into the desiccator.
- » SICCO Desiccators are not suitable for overpressure or vacuum.
- » Provide a safe stand for the desiccator.
- » Place the desiccator in a reachable working height.
- » The ambient temperature range of -35 °C to + 70 °C shall not be exceeded.
- » Do not expose the desiccator to direct sunlight.
- » The jar in which the Silica gel is delivered cannot be used to regenerate the gel.

Further security advice for SICCO Mini Desiccator Basic for Gas Filling:

- » SICCO Mini Desiccators Basic for Gas Filling shall be taken into operation only in rooms with sufficient ventilation.
- » For gas filling a connection has to be made to both connectors.
- » Connect the outlet tube at first, then the inlet tube. Disconnection has to be made in reverse order.
- » Avoid unanticipated reactions which might be caused by gas residues upon opening the door when storing further components in the desiccator.
- » Do not put the filling tubes under tensile or compressive stress.

Further security advice for SICCO Mini Desiccator Antistatic Basic:

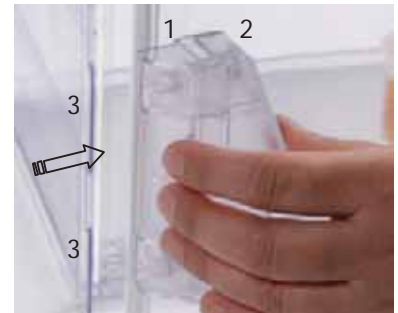
- » Connect your ground cable to the bore on the backside of the desiccator.
- » SICCO Mini Desiccators Antistatic Basic can discharge electrostatic charges by means of grounding cable. The surface resistance is 10^5 Ohm

3. Taking into operation

The desiccator can be used immediately after having unpacked it. Open the jar with silica gel and place it inside the desiccator.

- » Opening of the hinge door: Push the locking bar (1) into the handle (2).
- » Closing: Push the door onto the frame. You will hear when the locking bar (1) snaps into the frame (3).

Attention: Risk of crushing to fingers between locking bar and handle!



The following functions are only available with SICCO Mini Desiccators Basic for Gas Filling Cat.-No. V 1849-06:

Swapping with Gas

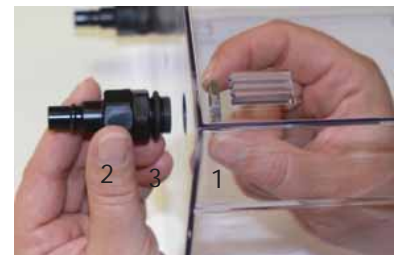
The substances and components which are stored in the desiccator can be swapped with gas. The corresponding bores to lead in the gas are located on the side walls and factory-made. For technical reasons (packing and transport), the tubing and the connecting pieces are enclosed in delivery but not yet mounted. The assembly is quite easy:

- » Remove the nut (1) from the connecting piece (2) by turning it counter clockwise. The o-ring (3) remains on the thread.



- » Two bores are located on the back side. Put the thread of the connecting piece (2) with the o-ring from the outside through the bore. Fix the connecting piece from the inside by screwing manually the nut (1) on it.

Do not use any tooling for the assembly!



- » Cut the inlet and outlet tubing with a knife to the requested length. 5 m are included in delivery.



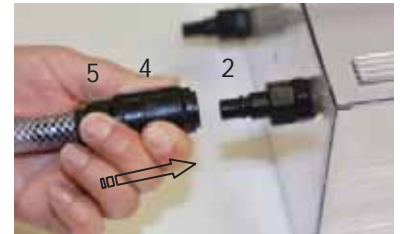
- » Press the tubing on the coupling.

Tip: Wet the hose connector with some water.



- » Pull the slide closure (4) of the coupling (5) in the direction of the tubing and put it on the already mounted connecting piece (2).

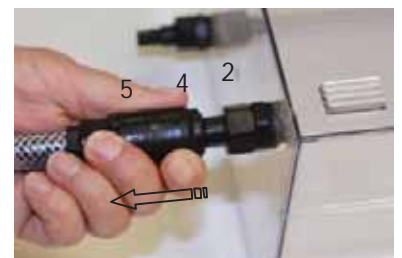
Tip: Put some drops of silicone oil onto the sealing surface.



- » For disconnection just hold the coupling (5) and move the slide closure (4) in direction of the coupling.

Attention:

The passage on the connecting piece (2) will only be opened after the connection with the coupling (5) has been closed tight. During disconnection, both passages are blocked by an integrated non-return valve.



The following functions are only available with SICCO Mini Desiccators Secure Box Basic Cat.-No. V 1847-06:

- » Key (6) in vertical position: The door can be opened. Please note that the key (6) cannot be removed in this position.



- » To close the lock, turn the key (6) a quarter turn to the left. The key (6) can now be removed from the lock.



The following functions are only available with SICCO Mini Desiccators Antistatic Basic Cat.-No. V 1843-06:

- » Connect your grounding cable to the back of the desiccator. We recommend using a screw with a diameter of 4 mm with nut and plate.



4. Mode of function

- » The regulation of the air humidity inside the desiccator is made by adding different quantities of silica gel.
The silica gel contains a colour indicator. Dry silica gel is orange-coloured, being saturated the silica gel changes its colour to dark brown or black. For regeneration, the silica gel has to be put into an open, heat-resistant vessel. On this vessel, the silica gel can be regenerated in an oven at approx. 90 to 110 °C for around 60 minutes. Do not regenerate the silica gel in the supplied jar!
- » To prevent a rise of air humidity when putting in or taking out parts, the door should be opened only for a very short period of time.

5. Service / Maintenance

- » Only use soft clothes and no detergents which contain solvents or which scrub.
- » Only use the desiccator in clean and dust-free conditions. Never expose it to direct insulation or other sources of heat.

6. Disturbances / Repairs

The following information shall help you to recognize and, if possible, to eliminate possible reasons for disturbances by yourself. If you are not able to handle the disturbance, please give us a call. We will then try to help you this way. If then a solution to your problem cannot be found, we will ask you to return the cleaned desiccator in the original packing to us. Then we will check whether a cost-effective repair is possible.

Objection

- » Humidity inside the desiccator does not fall.

Reason and help

- » The door is not closed tightly.
Close the door.
- » The silica gel is saturated. Regenerate the silica gel as described under point 2.4.
- » You possibly have not added enough silica gel.
Add further silica gel.
- » Air circulation is constrained by mounted shelves. Place the desiccant right next to your components.

7. Waste disposal

The desiccators as well as their packing are made of recyclable materials. Please take further information about the materials used from the following specifications.

8. Specifications

Cat.-No.	Temperature resistance	Material	Usable interior space B x H x T in mm	Usable volume litres, approx.	Weight in kg approx.	Outer dimensions B x H x T in mm	
V 1840-06	- 35 °C bis + 70 °C	Poly- carbonate	212 x 162 x 180 per compartment	6,2 per compartment	0,9	221 x 183 x 214	
V 1842-06					0,9	221 x 183 x 214	
V 1847-06					1,0	221 x 183 x 214 additional height for handle: 35	
V 1848-06					0,9	221 x 183 x 214 additionally 110 on the backside for coupling	
V 1849-06					0,9	221 x 183 x 214	
V 1850-01					0,9	221 x 183 x 214	
V 1850-02					1,8	221 x 362 x 214	
V 1850-03					2,7	221 x 540 x 214	
V 1843-06					Con- ductive Poly- carbonate	0,9	221 x 183 x 214

- » The maximum all-over load is 3 kg for all Mini Desiccators Basic.
- » A hose with a length of 5 meter is included in the delivery of SICCO Mini Desiccators Basic for Gas Filling. The passage of the quick couplings has a bore with 6 mm.
- » SICCO Mini Desiccator Antistatic Basic is conductive and its surface has a resistance of 10^5 Ohm

9. Spare parts / accessories

- » see page 18