

# INSTRUCTIONS



## Secador® Mini Desiccator Cabinet and Mini Desiccator with Gas Ports Catalog Nos. F42075-1000 and F42075-1002



Secador Mini Desiccator Cabinet is made from durable, clear SAN plastic which allows for long-life and easy observation of contents. The door swings open from right to left and is fitted with a dial hygrometer calibrated from 0 to 100% Relative Humidity\*. A single positive latch on the door furnishes a secure seal and a lock-loop on the door permits a padlock or a tamper evident tag to be used to prevent unauthorized opening. Dry-storage conditions can be generated with single-use or reusable desiccant (Scienceware® Cat. No. F42048-0065 or F42048-0100, F42046-0000, or F42045-0200). An optional under shelf mounting kit (Scienceware® Cat. No. F42075-0201) is available to conserve desktop area.

The Secador Mini Desiccator Cabinet is factory assembled and no attempt should be made to loosen or tighten the hardware on this unit. The user should be aware that if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. Please see the next page for instructions regarding the Secador Mini Desiccator with Gas Ports.

Secador Mini Desiccator Cabinets (except the Mini with Gas Ports) can be stacked atop one another by interlocking the ridges located on top of one unit with ridges located on bottom of another. Up to a total of four (4) units can be vertically stacked in this fashion.

To clean the product we recommend the use of Bel-Art Products Aquet™ Detergent, Cat. No. F17094-0030 and a soft, clean cloth. Do not use abrasive cleansers which will leave scratches.

### CAUTIONS for Secador Mini Desiccator and Mini Desiccator with Gas Ports:

- Do not place in front of a heating or air-conditioning duct
- Do not place near a heating device
- Do not place in direct sunlight
- Do not place in areas with smoke or steam
- Do not attempt to introduce pressure or vacuum inside the cabinet
- Do not place any explosive or hazardous chemicals in the cabinets
- Do not autoclave
- Indoor use only
- Use only within ambient temperature range of 5° C to 40°C

\*The analog hygrometer supplied with this desiccator cabinet is a reliable and accurate instrument. The hygrometer is factory calibrated. Do not attempt to adjust the settings.



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## Assembly Instructions for Secador® Mini Desiccator Cabinet with Gas Ports

Catalog No. F42075-1002

**IMPORTANT NOTE:** Gas ports are used to maintain a gas environment other than air inside the desiccator cabinet. The cabinet is not designed to withstand negative (vacuum) pressure within and there is a real danger of implosion if a vacuum line is connected to the gas ports on this cabinet. Similarly, high pressure gas entry is not advised as this may cause the cabinet to explode.

**The Gas Port Kit includes:**

- (2) Stopcock
- (2) Nipples
- (2) Bulkhead fitting (main body, 2 washers and one nut)
- (2) Barb fittings

**Required tools**

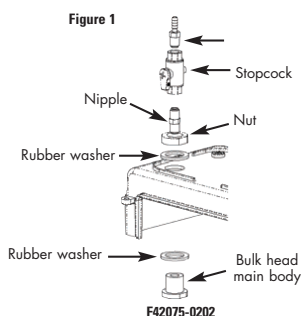
- \* Channel lock pliers
- \* Large adjustable wrench

**Assembly** (Refer to Figure 1 Below):

1. Place the cabinet on a flat horizontal surface with the two predrilled holes facing up.
2. Referring to the illustration, disassemble the bulkhead fitting, leaving one washer on the main body. From the inside of the cabinet, insert the main body of the bulkhead fitting and a rubber washer through one of the holes. Secure it in place with a rubber washer and one nut.
3. Screw one nipple to each of the stopcocks.
4. Screw one barb fitting to each of the stopcocks.
5. Screw one stopcock assembly to each of the bulkhead fittings.
6. Attach gas supply and evacuation lines.

**Operation:**

Be sure that both stopcocks are open before purging the cabinet with any gas. The gas should enter at a pressure of one to two psi to sweep out the air through the other stopcock. When sufficient purging has been done, close the entry stopcock first, and then close the exit stopcock. This will avoid pressure build-up in the cabinet.



## Assembly Instructions for Under-shelf Mounting Kit for Mini Secador® Desiccator Cabinet

Catalog No. F42075-0201

**NOTE:** The cabinet should be attached only to a wooden shelf with a minimum thickness of 3/4". Metal shelves with drop front edges will obstruct the door opening.

**The Undershelf Mounting Kit (F42075-0201) includes:**

- (2) 1/4" x 1 1/4" bolts
- (2) Hex nuts
- (2) Rubber washers
- (1) Drill bit, 3/8", for drilling holes in the cabinet and shelf
- (2) Steel washer

**Required tools**

- Electric drill
- Straight Blade Screw driver
- Wrench 3/4"

**Assembly** (Refer to Figure 2 Below):

1. Place the cabinet on a stable work surface with the top side up. The top side is easily determined based on the orientation of the hygrometer in the door. Using the 3/8" drill bit included in the Undershelf Mounting Kit, slowly drill two holes in the center of the rings located on TOP of the cabinet. It is very important to use the included drill bit to drill holes in the cabinet as this style of bit performs best when drilling through the plastic cabinet wall.
2. Position the cabinet under the shelf where it is to be mounted. Position the cabinet with the holes drilled in Step 1 facing up. We recommend positioning so that the cabinet door will protrude slightly ahead of the front face of the mounting shelf. Mark the holes to be drilled into the underside of the shelf using the holes drilled in step 1 as a template.
3. Drill the two holes in the wooden shelf.
4. Place one rubber washer on each bolt against the bolt head.
5. From the inside of the cabinet, push the bolts and rubber washer through the drilled holes.
6. Align the cabinet and protruding bolts with the holes in the shelf and push the bolts through the shelf holes.
7. Place a steel washer onto each bolt and screw one nut onto each bolt.
8. Tighten the nuts only enough to provide a secure attachment. Do not over tighten.

