



Secador® Techni-Dome® 360 Vacuum Desiccators

Catalog No. F42029-0000/F42029-0001



**CAUTION - For Safe Operation of the Techni-Dome Desiccator:
DO NOT AUTOCLAVE.**

Desiccator is designed to be used at room temperature.

DO NOT USE above a maximum temperature of 41°C (105°F).

DO NOT USE concentrated acids as desiccants.

DO NOT USE with organic solvents. Organic solvents and their vapors may attack the clear polycarbonate material and cause crazing (hairline cracking) of the surface. Crazing will weaken the desiccator walls, resulting in an implosion hazard.

This clear, spherical, polycarbonate vacuum desiccator has a 49.8 cm (19 7/8") inside diameter and a volume of 64,861 cubic cm (3,957 cubic inches). It is implosion-proof, has a neoprene gasket seal and two perforated, molded polypropylene shelves, one, 23 cm (9") diameter and the other, 38cm (15") diameter. The stopcock body is molded of polypropylene and the plug and washer are made of Teflon®.

Inspect the desiccator after unpacking. Identify the top and bottom halves; the bottom half has a neoprene gasket and top half has a small tapered male fitting to accept the stopcock. The F42029-0001 has a fitting to accept a stopcock in both top and bottom halves. The neoprene gasket in the base flange should be free of any dirt particles. Wipe the neoprene gasket clean with a damp cloth, if needed. The stopcock has a large diameter sleeve which mates with the tapered outlet of the dome. Press the stopcock in place and twist slightly to orient the handle for convenient operation.

Lifting handles molded into the flange should always be used to lift the dome.

Holes in the flange near the handles accept locks or tamper-evident seals.

Identify the small square posts molded under one of the handles on both the top and bottom halves of the dome. To close the desiccator, align the handles with small square posts on opposite sides of the desiccator. The desiccator will not close with posts aligned on the same side of the desiccator.

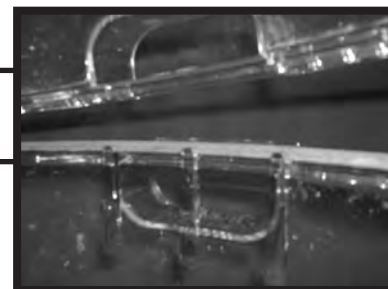
The barbed arm on the stopcock accepts vacuum tubing with inside diameter of 6 to 8 mm (1/4" to 3/8"). The arrows molded into the red stopcock cap indicate 3-way passageway orientation within the stopcock. Under normal conditions, no grease is needed to hold full vacuum; however, if the vacuum is to be held for over 24 hours, stopcock grease may be applied to the neoprene gasket, flanges and stopcock tapers. Under normal conditions, measured vacuum may decrease by 28mm (1.1") of Hg per 24 hours.

If the vacuum source is to be removed and a vacuum maintained in the desiccator, the third stopcock port must be closed with the supplied small red plug. Turn the stopcock handle to close off the entry port into the desiccator.

To release the vacuum, turn the stopcock handle **VERY SLOWLY** to open the desiccator to the atmosphere. Air should enter the desiccator very slowly to avoid disturbing contents.

Keyword: Technidome

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