

BulkSeal™ Freeze Drying Tray

Aseptic and Anaerobic for Bulk Lyophilization Applications

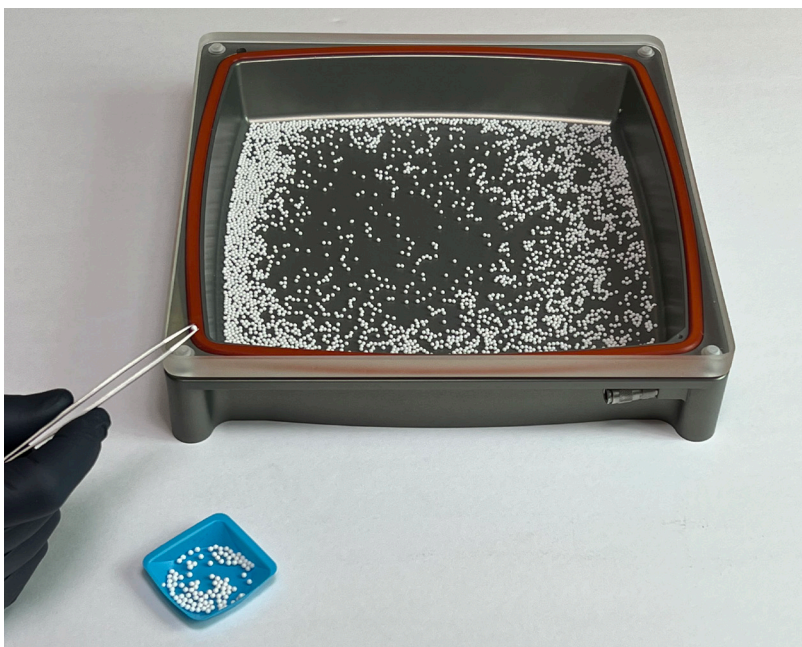
The BulkSeal Tray is a sealable bulk tray system for anaerobic, sterile, or aseptic applications. It is impermeable and can handle liquids, solids, and devices. The tray eliminates the risk of particle generation, enables transport and storage, and protects its operators.

Compared to a single-use enclosed freeze drying tray, the BulkSeal Tray is reusable, providing a sustainable option for your application. Our tray can also be fitted with a transparent lid enabling visual inspection and can seal other devices under vacuum, such as well plates, diagnostic beads, tissue and other custom container types not suitable for single-use enclosed freeze drying trays.

Applications for the BulkSeal Tray

The perfect solution for bulk products requiring aseptic handling, transport, or storage under vacuum.

- Highly potent and dangerous products
- Microbiome materials
- Collagen and scaffold materials
- Medical devices
- Materials that require aseptic or anaerobic handling
- Contained and controlled atmosphere pre/post freeze drying
- Operator protection from exposure such as cytotoxic materials
- Long term storage pre and post to freeze drying



BulkSeal Tray Features

Choice of materials

Tray

- Anodized aluminum

Lid

- Acrylic
- Anodized Aluminum

Lid hermetically sealable

- Mechanical or
- Vacuum sealable

Liquid fill method

- Pump
- Draw by vacuum
- The tray can also be filled manually

Sterilization options

- Steam
- Vaporized hydrogen peroxide
- ETO
- Other methods may be compatible, please inquire

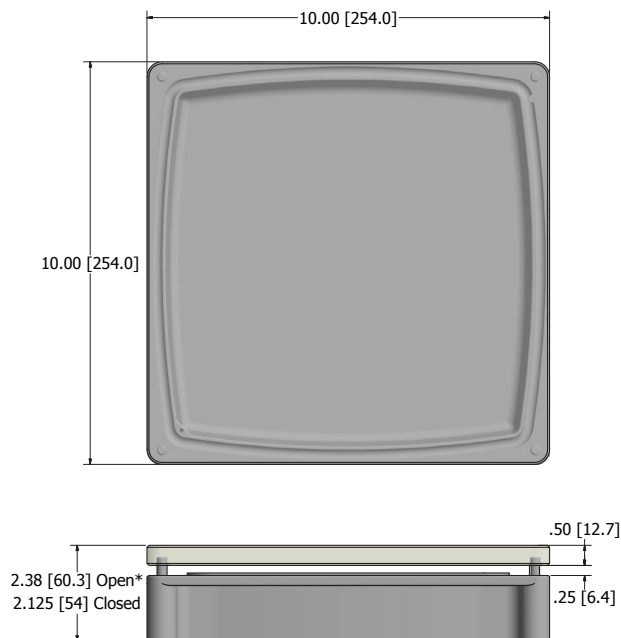
Additional information

- Automatically opens inside freeze dryer
- Hermetically seals inside freeze dryer (requires stoppering)
- Available in two sizes: 10" x 10" and 12" x 12"
- Custom sizes available

Examples of use

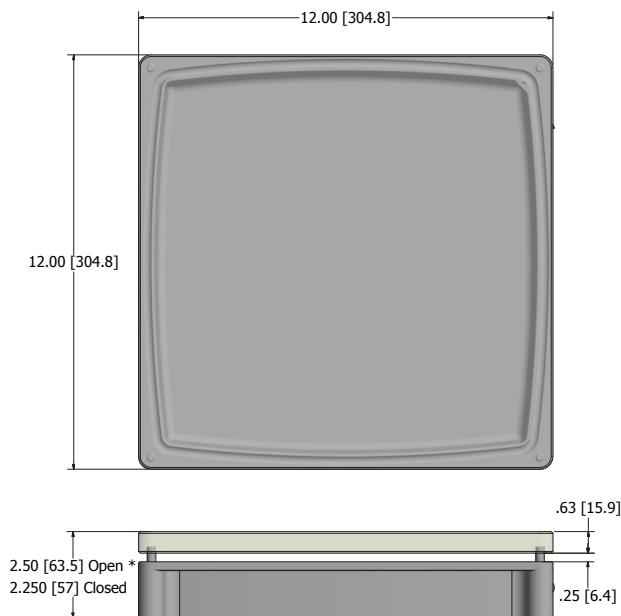
- Fill in laminar hood
- Seal via vacuum
- Store and transport
- During freeze drying the lid automatically opens for processing
- End of freeze drying the lid is sealed with a slight vacuum
- Transport and store

10" x 10" BulkSeal



* Open height with aluminum lid: 2.125[54]

12" x 12" BulkSeal



* Open height with aluminum lid: 2.25[57]