

Flexible Containment Solutions Guide

Document Transfer Enclosure

» OVERVIEW

The Flexible Document Transfer Enclosure is designed to allow paperwork used in pharmaceutical processing to be handled in a contained way so that powders are not transferred onto the documents and to areas or individuals that are not protected.

The enclosure can be manufactured from a clear ArmorFlex® or polyurethane film that will allow for room light to illuminate the inside of the enclosure for easy viewing and writing on the documents.

» HOW DOES THE SYSTEM WORK?

Documents, writing implements, and baggies for enclosing the finished paperwork are preloaded into the enclosure.

A set of glove sleeves (left hand and right hand) are integral to the front of the enclosure at an approximate height of 48". Due to the flexibility of the enclosure, the operators will be able to work at heights approximately +/- 5" from the glove sleeve centerline. This flexibility is provided by the nature of the films employed and the use of bungee cords that allow the enclosure to move with the operator.

On the side opposite of the Glove Sleeves will be a zipper that is used as a pass-through for the documents.

A bag in/bag out (BIBO) canister can also be provided as an optional method for transfer (as shown in the photograph).

Space is also available to store plastic bags that can be used to contain the documents once all work is completed.

A stainless steel frame is used to support the enclosure which includes casters to make the unit portable. The frame will include a rigid plate to use for support during writing.

The top half of the frame can be provided as a table mounted system.

Frames are typically available in 304 or 316L Stainless Steel. Other materials can be provided as required.

The typical document transfer enclosure is sized for dimensions of 24" wide x 24" high x 24" deep. Custom sizes are also available.



Document Transfer Enclosure

» FEATURES

- Clear film allows use of existing light from the suite
- Passive system meets ATEX and Ex ratings
- Re-usable for extended campaigns
- Portable
- Small footprint does not take up a lot of floor space

» BENEFITS

- No cross contamination transfer to documents and then to other parts of the plant
- Ergonomics are maximized with flexible materials
- Reduced cleaning and cleaning validation
- Low capital and operating cost
- Speed of implementation
- Production and Lab processes supported

What containment level provided?

OEB 5 with results in the nanogram range. This is anticipated given third party test results from similar designs and the 100% inflation tests performed on the deliverable enclosures.

Why use this over other technologies?

The cost of ownership, ergonomic advantages, and speed of delivery benefits of this flexible solution far outweigh those of rigid isolation systems.

Other potential Applications

- Sampling
- Dispensing
- Product Analysis