



Flexible Containment Solutions Guide

Weigh and Dispense System

A NEW era in dispensing technology

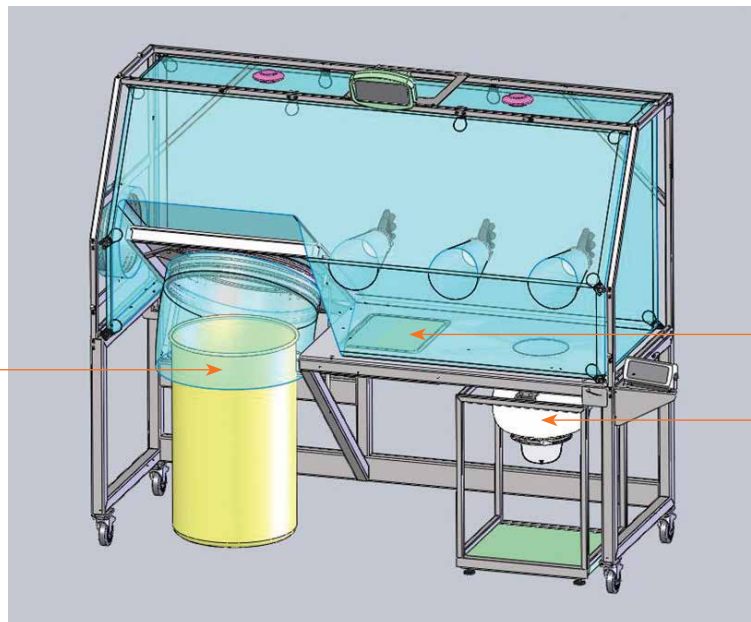
OVERVIEW

This modular design is developed to allow weighing or subdividing materials in a highly contained way while maintaining weighing accuracy. The system can be used for weighing and then directly charging into a process vessel or other equipment.

BENEFITS

- Modular design to meet specific process demands using proven containment and weighing technology
- Improved ergonomics over hard wall isolators by utilizing the comfort of the flexible wall system
- Low capital cost to purchase and install
- Accurate weighing system designed for the application and process typically to +/- 5 grams depending on scale capacity (higher accuracy available with custom design and scale selection)
- Proven containment using the static or dynamic Flexible Isolator System to less than 1.0 $\mu\text{g}/\text{m}^3$

The unique drum attachment method provides high containment and ease for the operator to dock a drum



The scale can be located outside of the containment area so cleaning is not required

The System can discharge to a continuous liner system, DoverPac, or other packaging. This frame can include load cells or use a floor scale to assure accurate net weights.

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Weighing Capability

- Versatile design to use balance, load cell system or floor scale systems
- Accurate weighing along with tare removal of packaging for net weight accuracy
- Weighing accuracy is determined by the scale capability and the weights being handled



Static Flexible Isolator

- This passive system is proven for high containment
- Using our robust ArmorFlex® 113 flexible film, the integrity of the system is secure
- Testing results consistently report an OEL below 1.0 µg/m³ TWA
- Systems have been provided up to 200" long with no limit on size capacity

Dynamic Flexible Isolator

- Designed with a fan and HEPA filter system to provide an additional level of containment protection while reducing the risk of any breach
- Pressure control is maintained and monitored by PLC System
- Breach control to sense and indicate a pressure drop while changing the operating parameters to maintain a negative pressure



Drum Dispensing

- The system is primarily designed to dispense from drums
- Easily attach drums using the ILC Dover drum attachment ring technology
- Standard design for drum diameters up to 23"
- Drums can be completely or partially discharged and then removed from the system maintaining containment for subsequent discharging
- ILC Dover Crimping System completes the safe and secure process

Process Examples

- Dispense to DoverPac's for charging
- Dispense to Continuous Liner
- Subdivide drums of potent materials
- Sampling from drums
- Weigh and dispense directly to the process
- Design Options
- N₂ inerting of the system
- Low humidity control
- Alternate transfer options including RTP units and transfer valves
- Wash-in-place cleaning
- Adjustable height base
- Collapsible frame for storage

ArmorFlex®

- The ArmorFlex® family of films has been developed for the specific needs of the pharmaceutical industry including FDA approval for product contact
- The flexible isolator is manufactured from ArmorFlex® 113 film and is typically 8 mil thick. This robust material will resist against damage from typical use and is more functional than a hard wall type design
- ArmorFlex® is developed to be resistant to most solvents, environmentally friendly for incineration with no chlorides, and has a 5-year shelf life



ILC Dover LP
One Moonwalker Road
Frederica, DE 19946 USA
+1.302.335.3911
+1.800.631.9567

customer_service@ilcdover.com

www.ilcdover.com