



DEC Isocharge

DEC Isotube

DEC Isodischarge

# Containment Solutions

## Powder Handling Excellence



# DEC Isocharge

For Rapid Powder Charging with Room Air



'Open Manway Charging' is no longer acceptable, but a new development being successfully used by Dec clients worldwide, is the 'DEC Isocharge'. Combining the open aspects of a Laminar Flow Booth with a Glovebox Isolator to enable the 'Rapid and Safe Charging' of powder products.



Multiple Vessels

Optional 'Drum Charge Adaptor', suitable for a range of drum sizes.

- Fast, Open Charging of Bags and/or Drums
- High Containment <math><1\mu\text{g}/\text{m}^3</math> with HEPA filtration, allows 'Shirt Sleeve' Operation
- Automated or Manual Airflow Control options available
- Full CIP capability
- Charging Hopper options available for all powders, lumpy, sticky or wet
- Integrates seamlessly with the PTS

# DEC Isotube

For Contained Powder Charging with Clean Air



The 'DEC Isotube' provides a high level of containment together with control over environmental conditions. This 'Clean Air Transfer System' is equipped with a drum sealing system ensuring contained drum loading and powder charging.

We are able to offer a number of drum sealing options for a wide range of drum diameters.

**INERTION OPTIONS FOR HAZARDOUS PRODUCT HANDLING OR STERILE APPLICATIONS**

- Closed charging of drummed powder in a Clean Air Environment
- High containment <math><1\mu\text{g}/\text{m}^3</math> with HEPA filtration, allows 'Shirt Sleeve' Operation
- Capable of supporting an inerted atmosphere for handling low MIE or degradable products
- Safe waste removal through Continuous Liner Port
- Gravity discharge or integration with PTS
- Operation under controlled atmospheric GMP conditions

# DEC Isodischarge

For Contained Product Emptying and Recovery



The single or multi chamber 'DEC Isodischarge' Containment Glovebox enables safe emptying, sampling and general handling of powder products. Suitable for integrating with filter dryers, ovens, centrifuges, etc. Options include: Glove Safety Barrier, Oxygen Monitors, RTP's, Continuous Liners and many more.



The 'DEC Isodischarge' in conjunction with Dec's PTS Feeder system provides accurate target weight filling of IBC/Drums in a contained manner.

- High containment <math><1\mu\text{g}/\text{m}^3</math> with HEPA filtration, allows 'Shirt Sleeve' Operation
- Venturi or Exhaust Fan options for venting the liner
- Full CIP capability
- Capable of supporting an inerted atmosphere for handling low MIE or Degradable Powder
- Suitable for a wide range of powder handling discharge arrangements
- Possible integration of supplier controls package (filter dryer as shown)

More simple Pack-off options include direct PTS transfer to a Continuous Liner with HEPA Filtration.





Internal view of the '**DEC Isocharge**' utilizing both Laminar Flow and Glovebox Technology to allow safe and rapid powder charging.

Our '**Clean Room Manufactured and Packed**' for optimum cleanliness, **Continuous Pack-Off Liner** is folded '**Top to Bottom**' to give a greatly increased capacity and high containment,  $<1\mu\text{g}/\text{m}^3$ .



Dec's own, purpose built, **SMEPAC** compliant facility for Containment Testing.

A twin chamber '**DEC Isodischarge**' facilitates both the contained emptying and pack-off of product from a vessel, such as a filter dryer.



The '**DEC Isotube**' for fully contained and clean transfer of products in drums, in combination with Dec's dense phase **Powder Transfer System PTS** or by gravity.

Be it for operator or product protection, the Dec Group has a solution for all your powder handling requirements.





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