

Containment / Drum Emptying DCS® Inverter



- Contained emptying of drums
- Ideal for lumpy products
- Operator, product and environment protection
- Safe handling of toxic or explosive powders
- High containment < 1g/m³
- Primary and secondary containment
- Mobile
- Fast and complete discharge
- Ergonomic

ATEX

CIP

Easy
Cleaning



User
Friendly

cGMP

OEB5



High
Containment



Contamination
Free



Operator
Safety

Unique technologies powered
by advanced engineering

DecTrue
end-to-end®

Containment / Drum Emptying DCS® Inverter



DCS® Inverter is ideal for emptying lumpy and agglomerated products requiring a contained environment, eliminating the need for downflow booths. Working in combination with the PTS Powder Transfer System® or the PFL Powderflex for slow and accurate addition, the system enables operation under high containment ($< 1\mu\text{g}/\text{m}^3$) conditions.

Working with drums of various sizes, DCS® Inverter ensures that the above-mentioned products can be easily discharged by using a lump breaker which is integrated in a suction hopper. With this application drum handling is simplified while improving safety and ergonomics.

The drum is positioned under the glove box, sealed and connected with the system and then inverted by motor. Powder is extracted and introduced into the reactor or any other receiving system by means of the PTS, maintaining high levels of containment at all times.

In order to guarantee proper functioning of the system, it is primordial that the liner has an adequate length to ensure its correct connection. A special vacuum

ring located in the liner docking system prevents the collapsing of the liner when the drum is inverted.

With safety always a priority, DCS® Inverter guarantees both primary and secondary containment, with a glove box enabling the operator to connect the drum liners within a sealed environment.

The fully cleanable DCS® system features a Push-Push HEPA filter which is connected to an extraction system. The system is available in various materials (SS, HC22, Halar coated, etc.) and on load cells. Inertisation is possible. Appropriate for use in ATEX zone 1/21.

Features

- Empties drums with double liners of various sizes
- Works with lumpy and agglomerated products
- No requirement of extra drum lifting or tipping
- No need to contain the drum during operation
- High containment level ($< 1\mu\text{g}/\text{m}^3$)
- Primary and secondary containment
- Low height requirement
- Operational under inert conditions

- GMP compliant, ISO 6 class internal
- Mobile system
- Easy to clean

Design

- AISI type 316L stainless steel, electropolished
- Other materials available (HC22, internal coating, etc.)
- HEPA H14 filter
- ATEX zone 2/21

Options

- Load cells for accurate dosing
- Inert operation
- Various suction hoppers

