

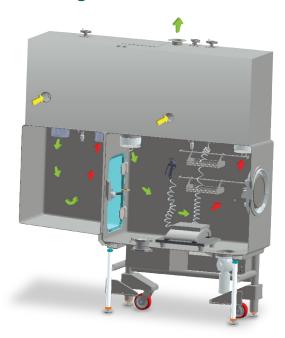
Weighing and Dispensing Containment Isolators

Weighing and Dispensing Containment Isolators (WDCI) are

advanced containment systems providing controlled negative pressure environments to maximize personnel protection during weighing and dispensing of potent compounds.

Esco WDCIs provide standard configurable designs able to adapt to various weighing and dispensing quantities and accuracies.

Airflow Regimes









Filtered air

Contaminated air

Basic principles

- Turbulent airflow allowing maximum containment with low airflow and therefore improved energy efficiency.
- Low negative pressure to reduce operator fatigue whilst providing maximum containment.
- Stable weighing accuracy as a result of low chamber pressure and flow in conjunction with Anti-Vibration platform.
- Contained Pass In / Pass Out systems to allow safe material transfer

Standard Features

- Fully welded single piece SS316L internal chambers with rounded coved corners.
- Pressure tested to ISO 14644-7.
- Inflatable Anti-Bacterial, USP Class VI Compliant and Food grade FDA approved gaskets provides both proactive and reactive sealing.
- Safe change glove system allowing change of gloves whilst maintaining a contained system.
- Integrated Anti-Vibration granite platform for weigh scale placement.
- Integrated automated pressure decay testing.
- Clean interior and exterior finishing.
- Safe change filters to allow in-process filter replacement.
- Lighting external to isolator chamber for ease of servicing and process chamber cleanliness.
- Integrated automated height adjustment providing 280mm of motion for ergonomic comfort.

GENIFRAI

| SPECIFICATIONS WEIGHING & DISPENSING CONTAINMENT ISOLATOR (WDCI) | | WDCI-2G_ | WDCI-3G_ | WDCI-4G_ | WDCI-5G_ |
|--|---|---|---|---|---|
| Nominal Size Process Ch | amber | 1.2m | 1.6m | 2.0m | 2.4m |
| External Dimensions (W x D x H) | Without Base Stand | 1.2m x 0.65m x 1.73m | 1.6m x 0.65m x 1.73m | 2.0m x 0.65m x 1.73m | 2.4m x 0.65m x 1.73m |
| | With Adjustable Base Stand (Min) | 1.2m x 0.65m x 2.08m | 1.6m x 0.65m x 2.08m | 2.0m x 0.65m x 2.08m | 2.4m x 0.65m x 2.08m |
| | With Adjustable Base Stand (Max) | 1.2m x 0.65m x 2.36m | 1.6m x 0.65m x 2.36m | 2.0m x 0.65m x 2.36m | 2.4m x 0.65m x 2.36m |
| Glove Port Height Min | | 1015 | 950 | 950 | 950 |
| Glove Port Height Max | | 1300 | 1300 | 1300 | 1300 |
| Chamber Pressure | | Negative Pressure | Negative Pressure | Negative Pressure | Negative Pressure |
| Airflow Type | | Turbulent Flow | Turbulent Flow | Turbulent Flow | Turbulent Flow |
| Airflow Volume - Maximum (Intake & Exhaust) - Normal operation | | 21m³/hr | 21m³/hr | 21m³/hr | 21m³/hr |
| Airflow Volume - Maximum (Intake & Exhaust) - Glove Breach Protection | | 75m³/hr | 75m³/hr | 75m³/hr | 75m³/hr |
| Filter Type - Inlet | | H14 Cartridge Filter with PVC Shroud |
| Filter Efficiency - Inlet - Safe Change | | 99.999% | 99.999% | 99.999% | 99.999% |
| Filter Type - Exhaust - Safe Change | | H14 Push Push Filter with 316L St. St. Housing | H14 Push Push Filter with 316L St. St. Housing | H14 Push Push Filter with 316L St. St. Housing | H14 Push Push Filter with 316L St. St. Housing |
| Filter Efficiency - Exhaust | | 99.999% | 99.999% | 99.999% | 99.999% |
| Lighting Level | | ≥650Lux | ≥650Lux | ≥650Lux | ≥650Lux |
| Sound Level | | ≤68dBA | ≤68dBA | ≤68dBA | ≤68dBA |
| Isolator Construction | Chamber | 316L | 316L | 316L | 316L |
| | Service Housing | 316L | 316L | 316L | 316L |
| Anti-Vibration | Support Frame Black Granite for Analytical | 316L ✓ | 316L ✓ | 316L ✓ | 316L ✓ |
| Weighing Mount | Weigh Scale | | | | |
| Isolator Finish | Chamber Internal | ≤0.4Ra | ≤0.4Ra | ≤0.4Ra | ≤0.4Ra |
| | Chamber External | ≤0.6Ra 0.6Ra | ≤0.6Ra 0.6Ra | ≤0.6Ra 0.6Ra | ≤0.6Ra 0.6Ra |
| | Service Housing External Support Frame | 1.0Ra | 0.6Ka | 1.0Ra | 1.0Ra |
| Controls | Color 6" HMI - Siemens - CE | | | | |
| | Marked Operator Specific Login sets | ✓ | ✓ | ✓ | ✓ |
| | Isolator Working Height for Ergo- nomic Comfort (Selectable) | ✓ | ✓ | ✓ | ✓ |
| Electrical Requirements (By Client) | 110-120V, AC, 50Hz/60Hz, 1Ø | ✓ | ✓ | ✓ | ✓ |
| | 220-240V, AC, 50Hz/60Hz, 1Ø | ✓ | ✓ | ✓ | ✓ |
| | 480V, AC, 50Hz/60Hz, 3Ø | ✓ | ✓ | ✓ | ✓ |
| Compressed Air require- ments (By Client) | 6 Barg Pressure at 5ltr/sec | ✓ | ✓ | ✓ | ✓ |
| Exhaust Duct requirement Thimble Connection Requ | | (101.6mm) 4" | (101.6mm) 4" | (101.6mm) 4" | (101.6mm) 4" |
| Options | Pass Chamber | ✓ | ✓ | ✓ | ✓ |
| | Temperature & Humidity Monitoring | ✓ | ✓ | ✓ | ✓ |
| | Process Chamber Drain | √ | ✓ | ✓ | ✓ |
| | WIP - Spray Gun - Process Chamber | ✓ | ✓ | ✓ | ✓ |
| | CIP - Spray Balls - Process Chamber | ✓ | ✓ | ✓ | ✓ |
| | CIP - Spray Balls - Pass Chamber | ✓ | ✓ | ✓ | ✓ |
| | Split Butterfly Valve - 4" | ✓ | ✓ | ✓ | ✓ |
| | RTP Alpha - Ø190, Ø270, Ø350, Ø460 | ✓ | ✓ | ✓ | ✓ |
| | RTP Beta Canister - Ø190, Ø270, Ø350, Ø460 | ✓ | ✓ | ✓ | ✓ |
| | RTP Beta Liner - Ø190, Ø270, Ø350, Ø460 | ✓ | ✓ | ✓ | ✓ |



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