



BARRIER SYSTEMS

Single Source Isolation Technologies

ASEPTIC FILLING MACHINE ISOLATOR



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The Walker Barrier Systems small scale Filling Machine Isolator is designed to enclose the filling, stoppering and capping operations of a Powder or Liquid Filling Machine while providing an Aseptic environment for the process. Featuring unidirectional airflow, hinged "easy-lift" window panels and special "mouse hole" for the exit of filled vials.

Process Description:

This isolator allows for the entry of pre-sterilized stoppers and caps through a Rapid Transfer Port (RTP). Powder is also presented into the Isolator via the RTP. Glassware is transferred to the isolator in separate transfer isolators. The Transfer Isolator "docks" to the filling isolator via a RTP and the trays of glassware are manually positioned on the accumulator of the filling machine. The vials are automatically moved by the filling machine through the filling, stoppering and capping stations and exit through a "mouse hole" in the end wall of the isolator. A conveyor carries the vials from the Isolator under an external unidirectional airflow module and into the adjoining packaging room.

Design Advantages:

- Ergonomically designed oval gloveports are specified as standard, with Hypalon gloves.
- Fully welded 7 gauge 316L stainless steel construction, with laminated safety glass, and 5/8 inch corner radiuses.
- The digital pressure controller allows the Isolator to maintain a constant pressure within high and low set points, with a visual alarm back-up.
- Positive pressure ventilation system with HEPA filtration and a self contained unidirectional airflow system.
- One RTP alpha port used for introduction of trayed empty vials.
- One RTP alpha port used for introduction of stoppers, caps and product.
- Several spooled sanitary fittings (various sizes) for vacuum, liquids, nitrogen, etc.
- Several compression fittings (various sizes) for electrical wire pass-through.
- Special "mouse hole" protected by unidirectional airflow for exit of filled vials.
- Cam-lock connections for inlet and outlet of gas sterilant.
- Temperature control to maintain the Isolator at ambient temperature with high/low set points.

Options:

- PLC based control systems with automated valves.
- RTP system for sterile liquid entry.
- Automatic negative pressure breach ventilation system (available for potent aseptic filling applications).
- Connection to an external vial washer (separate piece of equipment) on the exit of the isolator.
- Full validation services available including IQ/OQ protocols.

Our Sales and Engineering staff will work closely with you to design the optimum system to meet your needs. Walker Barrier Systems offers complete in-house design, mock-ups, engineering, fabrication, installation and onsite start up services.



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