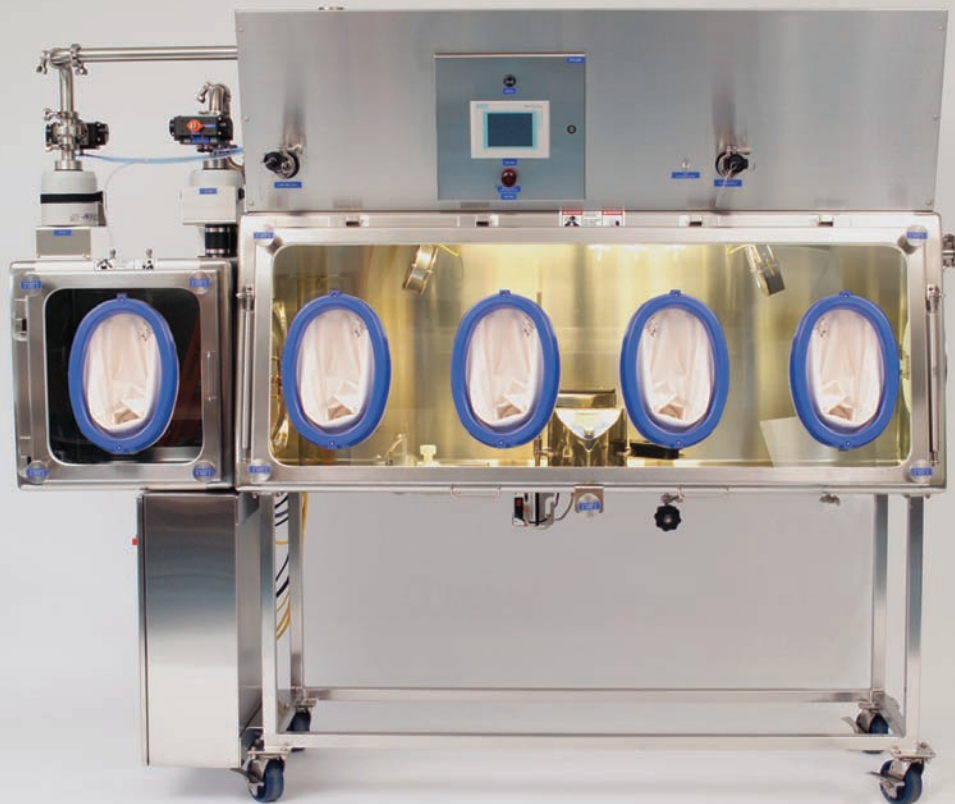




**BARRIER SYSTEMS**

*Single Source Isolation Technologies*

# STERILITY TESTING ISOLATOR



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The Walker Barrier Systems Sterility Testing Isolator is designed to allow operators to perform sterility testing in an aseptic environment providing assurance of material integrity. This system provides a cost-effective alternative to the "multi-isolator" approach to sterility testing and is ideal for those customers with limited laboratory space whilst benefiting from the ability to provide rapid decontamination.

## Process Description:

Samples to be tested and all associated supplies and equipment required for testing are loaded into the Isolator via a "hatchback window". When loading is completed, the Isolator is decontaminated with vaporised hydrogen peroxide. The decontamination process is conducted by a hydrogen peroxide generator (supplied separately), which communicates with the Isolator PLC. By communicating with the generator when the decontamination cycle is complete, the Isolator will automatically switch to a "rapid aeration" mode to purge the Isolator of the hydrogen peroxide vapours. When aeration is complete, the Isolator switches to run mode and is ready for sterility testing.

The samples can then be membrane filtration tested by using the optional Millipore 316L Integral Steritest system integrated into the floor of the isolator. Once testing is completed, the exposed media samples and refuse will exit the isolator through the "hatchback" window.

## Design Advantages:

- Fully welded 7 gauge 316L stainless steel construction, with laminated safety glass, and 5/8 inch corner radiuses.
- Positive pressure and turbulent flow, with high/low set points and audible and visual alarms.
- PLC with password protection to automatically control all functions and phases of the Isolator operation and decontamination process.
- Large diameter stainless steel piping increases the airflow and minimizes problems with "out gassing".
- Automatically actuated inlet and outlet valves eliminate the need for operators to manually adjust valves during the decontamination cycle.
- Easy lift "hatch-back" window for loading and unloading the Isolator.
- An in-line heater in the ventilation pathway heats the purge airflow during the aeration cycle, assisting in the decomposition of hydrogen peroxide.

- The "oversized" blower is capable of increasing the air changes to 100+ per hour.
- VHP integration package which may be controlled through the included PLC functions.

## Options:

- Electro-mechanical lift platform allows the Isolator chamber to be automatically raised by up to 4" to better accommodate operators.
- Ammonia leak test pressure control system.
- Integrated Millipore Steritest floor mounting testing equipment.
- 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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