

# GPPI

## GENERAL PROCESSING PLATFORM ISOLATOR

The Esco General Processing Platform Isolator (GPPI) is a highly adaptable, unidirectional laminar airflow isolator that can be used for sterility testing or other processes that require an ISO Class 5 (Grade A) aseptic environment. The GPPI's advanced control system allows the operator to select either positive or negative chamber pressure as well as single pass or recirculating airflow patterns. These features, along with the ability to perform safe change procedures on the supply and return ULPA filters, make the GPPI a highly versatile isolator that can be used for potent or non-potent aseptic materials.

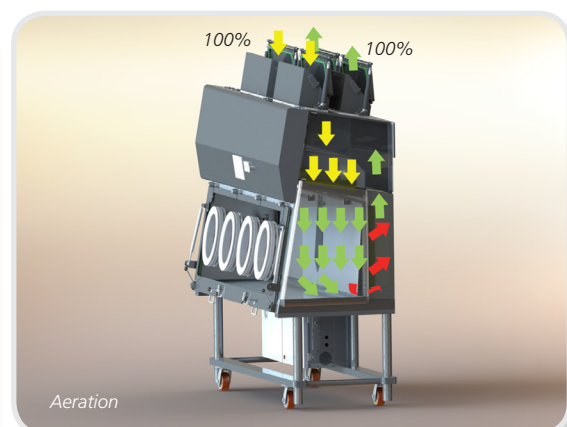
In addition, the Esco GPPI's design offers over 20 standard options and configurations ensuring that Esco can provide a standard solution to fit your specific process and facility requirements. Should a standard option not fit your requirements Esco can offer customized solutions as well.



General Processing Platform Isolator (GPPI)

### Basic Features

- Unidirectional laminar airflow
- User selectable positive or negative chamber pressures and single pass or recirculating airflow regimes
- Multiple standard VHP bio-decontamination options providing 6 log reduction in viable contaminants
- Low Contamination Change Filter design allows for the handling of potent and non-potent aseptic products



Clean Air    Air    Filtered Air

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## Standard Features

- Fully welded SS316L internal chambers with rounded coved corners
- Optional on-board exhaust catalytic convertor allows exhaust into the surrounding room without modifications to the facility and fitted with an interlocked external H<sub>2</sub>O<sub>2</sub> sensor for safety
- Optional on-board air compressor eliminates the requirement for a site supplied compressed air connection, which allows for the installation of a simple plug-in of electrical power.
- Product is designed with FDA-approved hydraulic liquid that not only allows the user to raise and lower for optimal ergonomics but also enables ease of transport through a variety of doorway and ceiling heights.
- Self-contained design of control system & electrics allow for simple, plug-in installation
- Integrated particle monitoring connections and optional inclusion of the viable and non-viable monitoring equipment
- Automated pressure hold test
- Pre-Programmed system to function with multiple H<sub>2</sub>O<sub>2</sub> system options
- Standard design incorporates cGMP compliant features; with the inclusion of an optional chart recorder or printer the GPPI will meet the data handling requirements for 21 CFR Part 11 requirements.
- Safe change glove system allows the changing of gloves while maintaining aseptic conditions inside of the chambers



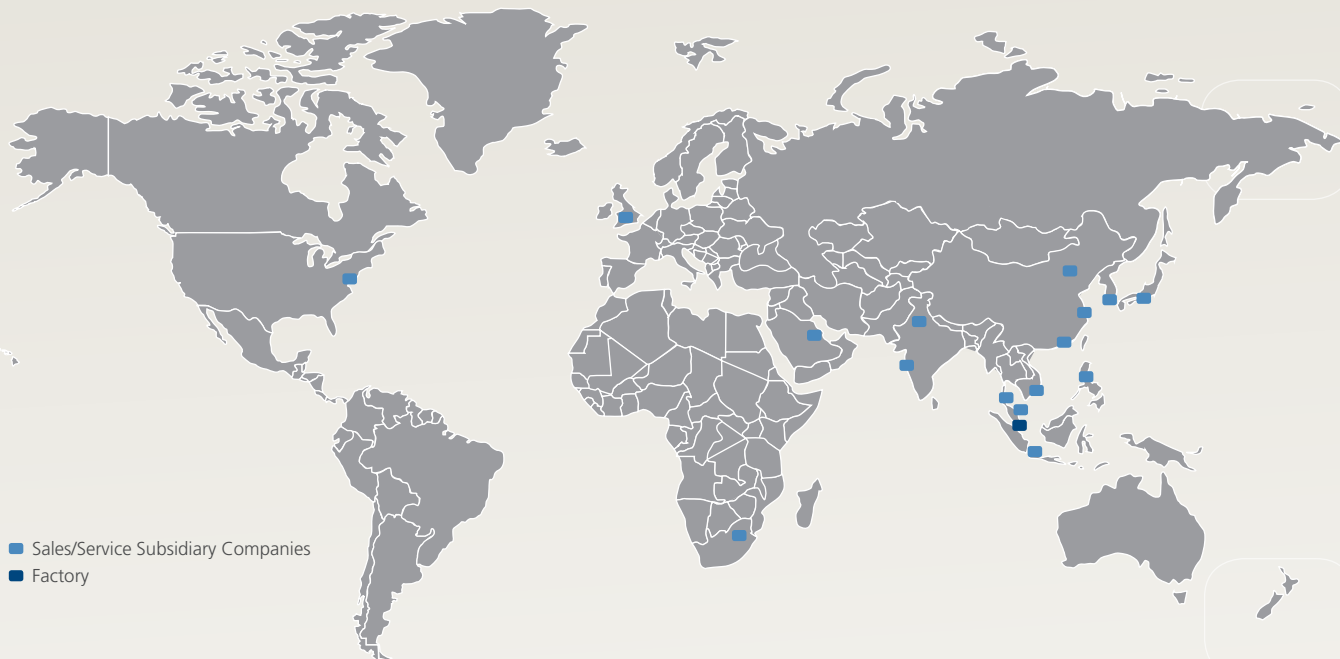
*Customized interchangeable racking for sterility test batches*

# GENERAL SPECIFICATIONS

GENERAL PROCESSING PLATFORM ISOLATOR (GPPI)

		GPPI-2G	GPPI-3G	GPPI-4G
Nominal Size Main Chamber (Width)		1.2m	1.6m	2.0m
Working Chamber Dimensions (L x W x H)	1.2m x .061m x 0.72m	✓	✓	✓
	1.2m x .072m x 0.72m	✓	✓	✓
External Dimensions (L x W x H)	With Adjustable Base Stand (Min)	1.92m x 1.03m x 2.2m	2.32m x 0.92m x 2.2m	2.72m x 0.92m x 2.2m
	With Adjustable Base Stand (Min)	1.92m x 1.03m x 2.2m	2.32m x 0.92m x 2.5m	2.72m x 0.92m x 2.5m
Glove Port Height Min (mm)		1055	1055	1055
Glove Port Height Max (mm)		1355	1355	1355
Chamber Environment		ISO Class 5 all Chambers (Grade A)		
Filter Type -Chamber Inlet		ULPA U15 with Integral Mesh Guard and Knife Edge Gel Seal		
Filter Efficiency - Chamber Inlet		99.9998%	99.9998%	99.9998%
Filter Type -Chamber Exhaust		ULPA U15 with Integral Mesh Guard and Knife Edge Gel Seal		
Filter Efficiency - Chamber Exhaust		99.9998%	99.9998%	99.9998%
Lighting Level		≥ 600 Lux		
Sound Level		68 dBA		
Isolator Construction	Chamber	SS316L		
	Service Housing	SS304L		
	Support Frame	SS304L		
Isolator Finish	Chamber Internal	≤ 0.4Ra		
	Chamber External	≤ 0.6Ra		
	Service Housing External	≤ 0.6Ra		
	Support Frame	≤ 1.0Ra		
Electrical Requirements (By Client)	220-240V, AC, 50Hz, 1Ø	✓	✓	✓
	110-120V, AC, 60Hz, 1Ø	✓	✓	✓
	220-240V, AC, 60Hz, 1Ø	✓	✓	✓
Compressed Air Requirement (By Client) (If no on-board compressor)	2 Bar-g Pressure at 5Ltr/sec	✓	✓	✓
Exhaust Duct Requirements (By Client) (Unless Integral Catalytic Convertor is Included)		10" Duct from Isolator to Outside		
Options	Pass Chamber	✓	✓	✓
	Bio-Decontamination Steris	✓	✓	✓
	Bio-Decontamination Bioquell	✓	✓	✓
	Non-Viable Air Sampler	✓	✓	✓
	Viable Air Sampler	✓	✓	✓
	Sterility Test Pump	✓	✓	✓
	Glove Tester	✓	✓	✓
	Waste Bag Grommet	✓	✓	✓
	Sterile Continuous Liner	✓	✓	✓
	Bag Welder with Table	✓	✓	✓
	RTPØ105, 190, 270, 350, 460 - Alpha	✓	✓	✓
	RTPØ105, 190, 270, 350, 460 - Beta Canister	✓	✓	✓
	RTPØ105, 190, 270, 350, 460 - Beta Liner	✓	✓	✓
	Weigh Scale	✓	✓	✓
	Spray Gun	✓	✓	✓
	Temperature and RH Monitoring	✓	✓	✓
	H <sub>2</sub> O <sub>2</sub> Monitoring	✓	✓	✓
	Product Waste Entry / Exit Ports	✓	✓	✓
	Liquid Water Entry / Exit Ports	✓	✓	✓
	Integral Catalytic Convertor	✓	✓	✓
	On-board Air Compressor	✓	✓	✓

## ESCO GLOBAL NETWORK



- Sales/Service Subsidiary Companies
- Factory



### Pharma Equipment Product Range

Downflow Booths  
General Processing Platform Isolators  
Aseptic Containment Isolators  
Weighing & Dispensing Containment Isolators  
Laminar Flow Trolleys (Horizontal & Vertical)  
Dynamic & Static Pass Boxes  
Ceiling Laminar Airflow Units

*Esco Pharma dedicated R&D engineers have a combined 30 years of experience in systems design of a variety of containment and aseptic process equipment. Compared to industry averages, Esco invests a significant percentage of annual revenues in research and development. As a result of our investment, and with continuous feedback and idea evaluation among our research, global sales, marketing, purchasing and manufacturing teams, Esco products reflect the best contemporary designs in performance, ergonomics and customer satisfaction. [escolifesciences.us](http://escolifesciences.us).*

# ESCO

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