

Optimized Solution for Aseptic/Potent Applications



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По вопросам продаж и поддержки обращайтесь:

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Isoclean® Healthcare Platform Isolator (HPI-G3) with no filter below workstation

Inbuilt **dampers** to allow pressure testing without having to use cover plates, tape & silicone

Centrifugal, direct-drive **blowers** designed for maximum energy efficiency and minimal maintenance

Sentinel™ Gold Microprocessor Control

System supervises all functions and monitors airflow and pressures in real-time.

Airlock **Pass Chamber** ensures work zone remains sterile during placement and removal of items.

Horizontal **sliding tray** prevents operator fatigue during transfer procedures.

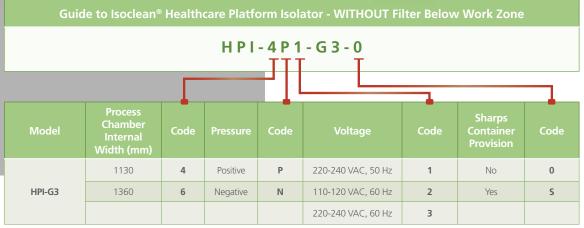
Electromagnetic Interlocking Doors with time delay effect ensures safety and containment between the Pass Chamber and

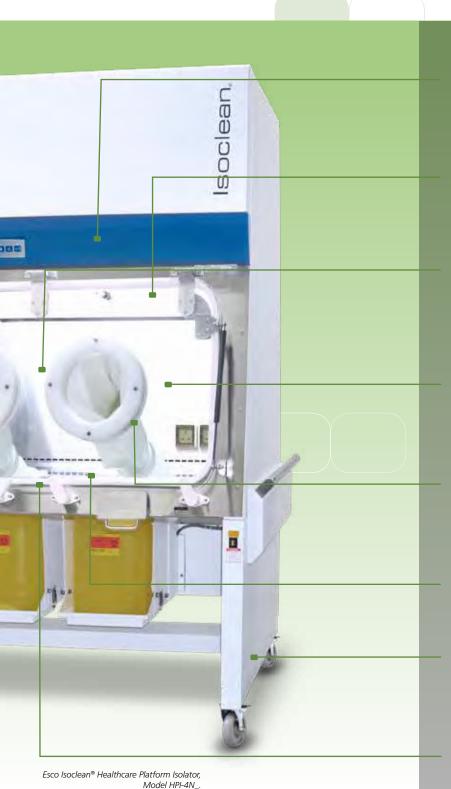
the Process Chamber.

Optional **sharps disposal system** enables smoother work flow and minimizes transfers in order to enhance patient protection and sterility

Foot switch provides hands-free access to opening of the magnetic interlock minimizing operator fatigue during transfer procedures.







HEPA (H14) filters with a typical efficiency of >99.999% at 0.3 microns provide superior ISO Class 5 air cleanliness, 100 times better than competing products.

Fluorescent lamps (optional LED) deliver >800 Lux to the work surface for superior overall illumination.

The **Process Chamber** facilitates aseptic processing in an ISO Class 5 environment/EU GMP Grade A.

Frameless **front visor panel** with rounded edges to minimize crevices and maximize door vision panel

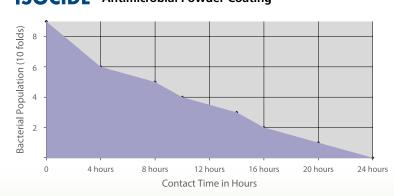
Circular **glove ports** with minimal crevices, no exposed bolts and nuts

Single-piece stainless steel **work surface** with raised with raised edges on all sides to contain spills.

Optional **hydraulic stand** with caster wheels, adjustable to accommodate user height preference for sitting or standing position.

Angled drain pan for easy cleaning

ISOCIDE™ Antimicrobial Powder-Coating



All exterior painted surfaces are powder-coated with Esco ISOCIDETM, an antimicrobial inhibitor to minimize contamination. IsocideTM is integrated into the coating substrate and cannot be washed out or diminished by repeated cleaning.

Performance results are available upon request. Contact Esco or your Esco Sales Representative for details.



Isoclean® Healthcare Platform Isolator (HPI-G3) with filter below work zone

Inbuilt **dampers** (option for manual or automated) to allow pressure testing without having to use cover plates, tape & silicone

Centrifugal, direct-drive **blowers** designed for maximum energy efficiency and minimal maintenance

Sentinel™ Gold Microprocessor Control System supervises all functions and monitors airflow and pressures in real-time.

Type D **Pass Chamber** with interlocked doors, adjustable purged duration, and time-delayed ingress/egress control allowing sufficient time for surface decontamination to minimize transfer of contamination

Removable **sliding tray** (option for perforated or non-perforated) prevents operator fatigue during transfer procedures

Electromagnetic Interlocking Doors

with time delay effect ensures safety and containment between the Pass Chamber and the Process Chamber.

Return Filter (option to upgrade to safe change BIBO) below work zone filters the contaminated air immediately to minimize possibility of airborne contamination

Foot switch provides hands-free access to opening of the pass chamber inner door minimizing operator fatigue during transfer procedures



HPI-4G8-PS2-0 Pass-Through Chamber No. of Internal Width (mm) 1215 2G 220-240 VAC, 50/60 Hz 8 Positive Р Single Pass S None HPI-G3 1520 110-120 VAC, 50/60 Hz Recirculating Left of Right 3G 9 Negative N R Both Sides 1825 4G

^{*} For standard units with filter below, sharps container is placed inside the work chamber.



HEPA (H14) filters with a typical efficiency of >99.995 at 0.3 microns provide superior ISO Class 5 air cleanliness, 100 times better than competing products.

Fluorescent lamps (optional LED) deliver >800 Lux to the work surface for superior overall illumination.

The **Process Chamber** facilitates aseptic processing in an ISO Class 5 environment/EL GMP Grade A.

Circular **glove ports** with minimal crevices, no exposed bolts and nuts

Frameless **front visor panel** with rounded edges to minimize crevices and maximize door vision panel

Single or multiple, removable work trays for easy surface cleaning and decontamination.

Optional **hydraulic stand** with caster wheels, adjustable to accommodate user height preference for sitting or standing position.

1		
Code	Sharps Container Provision	Code
0	No	0
L or R	Yes	S
2		

HPI-G3 SC+
Safe change BIBO filters
Esco HMI / PLC controller
Standard Integration of BioVap™
Sliding vertical inner pass chamber door
Larger pass chamber (single or dual)







Introduction

The Isoclean® Healthcare Platform Isolator (HPI-G3) facilitates the isolation of a product or process while providing the required sterile/ aseptic environment. It is factory-configured to operate at positive or negative pressure in single or recirculating airflow. This equipment provides a comprehensive range of personnel and product protection in addition to the surrounding work areas and the environment.

Application

- Pharmacy Compounding (Chemotherapy/TPN)
- Small-scale Potent Material Handling
- Aseptic Processing
- Research and Development
- Cell Processing

Isolation Technology

Isolation containment systems provide inherently superior sterility compared to open front clean air devices such as laminar flow clean benches and Class II biological safety cabinets. USP <797> guidelines specify that isolators may be situated in an area subject to less severe environmental controls compared with open front clean air devices.

When used as part of a system that includes operator aseptic technique training, process validation, expiration setting and product quality maintenance after the CSP leaves the pharmacy, isolators are an effective solution especially for lower-volume pharmacies. They reduce operating and renovation costs, take up less space, and are easier to maintain.

The positive pressure HPI-G3 model is suitable for work involving non-hazardous materials, while the negative pressure isolator is suitable for work involving hazardous materials eg, cytotoxic compounding applications.

The work zone and pass chamber interchange are either under positive or negative pressure to the room in order to maintain sterility or operator protection, respectively, in case of a breach in the barrier isolation system.

When hazardous drugs compounded have the potential to volatilize, the negative pressure, single pass isolator should be selected. Optional carbon filter may be added.

Maximum Protection and Sterility

- An improved mini-pleat separation technique maximizes filter surface area, improves efficiency and extends filter life over conventional separation.
- The HEPA (H14) supply filters provide clean air to the work surface in a gentle vertical laminar flow.
- Superior air cleanliness of ISO Class 5, 100 times better than

competing products.

- Laminar (unidrectional) airflow within work zone and pass chamber enables recovery of chamber atmosphere to ISO Class
 5 conditions within 3 minutes following a worst-case contamination event. The entire work zone air is changed 20-30 times per minute.
- Airlock pass chamber ensures work zone remains sterile during ingress and egress of items.
- The electromagnetic interlocking door mechanism with timedelayed ingress/egress control allows sufficient time for air purging to minimize transfer of contamination.
- Optional sharps disposal system enables smoother work flow and minimizes transfers in order to enhance patient protection and sterility. Sharps may be disposed through the work surface into disposal bins while minimizing contamination of the work zone.
- Improved safe-change cuff rings enable glove change with zero risk of contamination.

Ergonomic Enhancements

Ergonomic enhancements minimize stress associated with long periods of operation.

- Ergonomically styled sloped front reduces glare and allows easier reach into the work area. Rounded edges minimize crevices and maximize door vision panel.
- Sliding tray facilitates material transfer without the operator having to reach into the pass chamber interchange area.
- Circular glove ports with minimal crevices, no exposed bolts and nuts
- Optional hydraulic stand allows the operator to adjust the work surface height to preference, for both sitting and standing operation.
- Adaptable glove system allows all common surgical gloves to attach to the cuff ring.
- Lamps deliver > 800 Lux to the work surface for superior overall illumination.
- Foot switch provides hands-free access to opening of the magnetic interlock minimizing operator fatigue during transfer procedures.

Cabinet Construction

Robust construction and enhanced safety features qualify the HPI-G3 for the most demanding laboratory applications. The isolator is fully assembled and ready to install and operate when shipped.

 The cabinet exterior structure is constructed of industrial-grade electrogalvanized steel.

- External surfaces are coated with ISOCIDE™ antimicrobial coating to protect against surface contamination and inhibit bacterial growth. ISOCIDE™ eliminates 99.9% of surface bacteria within 24 hours of exposure.
- The cabinet interior is constructed of durable and pharmaceutical-grade 316L stainless steel with large radius corners to simplify cleaning.
- Removable tray components to provide easy access and encourage surface decontamination.
- Single or multiple, removable work trays for easy surface cleaning and decontamination.
- Hinged window may be opened for thorough access into the work zone.

Enlarged, multi-line digital read-out with alpha-numeric display indicates all input, status and alarm functions.

Work zone, interchange pressures and downflow velocity are continuously measured and displayed. Integrated true airflow sensor is temperature compensated for improved accuracy.

Password-protected administration can be set to restrict access to main menu.

Color coded indicator lamps display green for fan operation; blue for fluorescent lights and electrical outlet; and orange for AUX function ON.

Optional audible and visual alarms warn of unsafe conditions such as low chamber pressure.



Sentinel Microprocessor Control System, Programmable

- When programmed ON the start-up sequence confirms status with Air Safe and local time display.
 - the Personal Identification Number (PIN) access restricts unauthorized adjustments.

Control System

The Esco SentinelTM Gold microprocessor-based control system supervises operation of all cabinet functions. Controls are configurable to meet user requirements. Features of the main control panel include:

- Work zone and pass chamber pressures are monitored and displayed on the LCD screen.
- Continuous monitoring and display of isolator laminar (downflow) airflow on large, easy-to-read LCD display.
- An optional alarm package is available for users with more sophisticated requirements.

Fan Efficiency

The HPI-G3 fan system is designed for maximum energy efficiency and minimal maintenance.

- Centrifugal, direct-drive, external rotor motors reduce operating costs.
- Unique Esco motor/fan orientations minimize noise and vibration.
- Built-in solid-state variable speed controllers are infinitely adjustable from Off to Maximum.

Safety and Certification

All components used in Esco products meet or exceed all applicable safety requirements.

- Each isolator is individually factory tested for electrical safety.
- Documentation specific to the cabinet serial number is maintained on file.

Warranty

One year warranty (excluding consumables). Consumables are ballast, fluorescent, and filters. The warranty will cover all other parts including the blower, fan switch, and electrical main board. During the period of warranty, any repair, modification, testing and commissioning performed by any unauthorized party other than Esco Service Team will void the warranty of the unit.

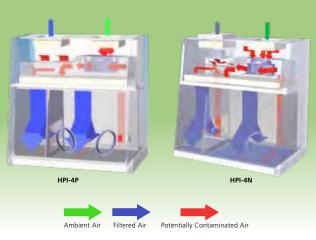
Accessories and Options

HPI-G3 is available as a standard bench top unit (for HPI-G3 without filter below models). Additional accessories are available for further enhancement.

Support Stands

- Fixed height, available 711 mm (28") or 864 mm (34")
 - With leveling feet, ±38.1 mm (1.5") (SPL-__0)
 - With casters (SPC- 0)
- Telescoping height stand for leveling feet (STL-__0), nominal range 660 mm to 960 mm (26" to 37.8") Adjustable in 25.4 mm (1") increments
- Adjustable hydraulic stand, with casters, elevates to accommodate user preference for sitting or standing work surface height (SHM-_-G3)



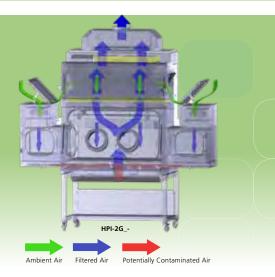


Ambient air is pulled through the inlet pre-filter (80% efficiency for positive pressure model) located on top of the isolator. The pre-filter traps large size particles to extend the life of the supply HEPA (H14) filter.

Air from the top inlet and from work zone is pulled by the fan which creates a positive pressure on the plenum that creates downflow. In positive pressure model, the proprietary plenum design forces more air into the work zone, increasing its pressure relative to the pass-thru. In negative pressure model, the work zone and pass-thru interchange are under negative pressure to the room, thereby preventing contaminants from leaving the work zone in case of a breach. The HEPA downflow filter creates a laminar and particle-free ISO Class 5 air cleanliness as per ISO 14644-1 (equivalent to Class 1 as per US Fed Std 209E) inside the isolator to protect the work material inside the main chamber and pass-thru.

Air from the work zone and pass-thru is quickly purged out by the fan to keep the area clean. The fan pulls approximately 90% of the purged air back to the plenum and after passing through the HEPA downflow filter again, it is recirculated back to the work one and pass chamber. The high rate of airflow recirculation helps to prolong filter life and reduces the chances of ambient contaminants entering the work zone.

Approximately 10% of the purged air is exhausted through an HEPA-filter to prevent heat build-up inside the isolator that can be detrimental to drug compounding. This exhausted air is replenished by ambient air coming from the top inlet pre-filter and a filter with 80% efficiency for positive pressure model.



Ambient air is pulled through the inlet pre-filter located on top of the isolator. The pre-filter traps large size particles to extend the life of the supply HEPA filter.

Air from the top inlet and from work zone is pulled by the main fan, which creates positive pressure on the plenum that creates downflow. Work zone pressure is always higher than the pass-through, to prevent contaminants from entering the work zone through the pass-through.

The downflow filter creates a full unidirectional airflow and particle-free ISO Class 5 environment inside the isolator to protect the work material inside the main chamber and pass-through. Air from the work zone and pass-through is quickly purged by the fans to keep the area clean.

	Design	Cabinet Performance	Air Quality	Filtration	Electrical Safety
Standards Compliance	USP 797, USA FDA cGMP, USA AS 4273, AUS PIC/S EU GMP TGA GMP JIS	CETA CAG 001-2005, USA CETA CAG 002-2006, USA AS 4273, AUS ISO 10648-2, Class 2 at Manual Testing DIN 12980:2015-08*	ISO 14644.1, ISO Class 5, Worldwide JIS B9920, Class 5, Japan EU GMP, Grade A	EN-1822, Europe IEST-RP-CC001.3, USA IEST-RP-CC007, USA IEST-RP-CC034.1, USA	IEC 61010-1, Worldwide EN 61010-1, Europe UL 61010-1, USA CAN/CSA -22.2, No 61010-1

^{*}Cabinet performance of Isoclean® Healthcare Platform Isolator (HPI-G3) complies to the proposed guidelines in the DIN 12980:2015-08 draft standard.

Other Options and Accessories

- Electrical outlets
- UV lamp
- IV bars with hooks
- Carbon VOC with filter housing*
- Exhaust Collar+
- Hard Ducting with Anti-blow back valve*
- * for HPI-2G/HPI-3G/HPI-4G models only
- + for negative isolator only

- Glove leak tester
- CCTV and rear view adaptation
- $\bullet \quad \mathsf{BioVap}^{\mathsf{TM}} \ \mathsf{biodecontamination} \ \mathsf{system}$
- Sharps container
- Continuous Liner for Bag In or Bag Out
- Bag welder for continuous liner system

Glove Leak Tester

Features:

- Quantitative pinhole measurement
- Simple operation
- Positive pressure testing
- Single glove test
- Table-top design
- Pneumatic Tubing Connections



BioVap[™] | Biodecontamination System

Esco BioVap™ is an effective hydrogen peroxide-based biodecontamination system capable of achieving a 6-log reduction in bioburden. This system can be integrated into the HPI-G3 as our approach to a cost-effective biodecontamination.

SCIENCE BEHIND THE PROCESS

The Esco BioVap™ system employs a process of atomizing the hydrogen peroxide sterilant creating a dry fog after it is injected into the space. This unique system (patent pending) creates a charge on the atomized droplets as it pass through the nozzle.

Each droplet of the sterilant contains billions of reactive antimicrobials to effect a microbial kill. Through a mutual repulsion, the charged droplets repel each other and distribute through the space and are attracted to the negative charged surfaces. This causes the droplets to crash and burst on to the surfaces instead of gently settling.

This revolutionary biodecontamination system is not affected by temperature or relative humidity therefore there is no pre-conditioning requirement to the chamber before use leading to reduced cycle.

LEVELS OF BIODECONTAMINATION





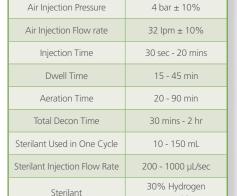
SANITIZATION

Two loa-10⁻²





DISINFECTION Five log-10⁻⁵



BIOVAP

* Specifications are highly dependent on the isolator unit specifications such as size, level of customization, Biovap design, etc.

peroxide

CONTROL SYSTEM

BioVap™ is controlled by PLC with operator interface via a touchscreen HMI terminal giving operator log on security and real-time display of cycle parameters.

Testing and Validation

- Filter Leak Tests verify the integrity of the ULPA and HEPA filters as installed.
- Downflow Velocity Tests verify adequate unidirectional airflow velocities
- Class 2 Containment Enclosure at Factory Test for process and pass chambers in accordance with ISO 10648-2.
- Particle Counts (Air Cleanliness Tests) verify air cleanliness in accordance with ISO 14644-1.
- Product Ingress and Egress Tests determines if the isolator work zone can maintain ISO Class 5 during transfer procedures.
- Recovery Time Test determines the amount of time it takes the main chamber to recover to ISO Class 4 in the event of a contamination event
- Breach Test verifies user protection in case of a glove failure.
 Unit will become negative pressure with inward velocity of 0.7 m/s.
- Operator Comfort Tests include noise, light and vibration.

Pressure Test

HPI-G3 is a class 2 containment enclosure on manual pressure leak test and Class 3 containment enclosure on automated pressure test as per ISO 10648-2.

Capable of carrying out a pressure test (Manual or Automated). Compressed air is injected to 280-290 Pa and count down starts when the pressure drops to 250 Pa. Measurements are taken every 10 mins for total of 30 mins. These measurements are recorded and computed as per ISO 10648-2 standard.





SAFE GLOVE CHANGE PROCEDURE: REPLACING DISPOSABLE GLOVES

Safe change design system allows glove change at the middle of a process or when the equipment is in operation.



1. Pull the Glove/Sleeve outside the isolator.



2. Fold the fingers of the glove inside the cuff ring.



3. Remove both inner and outer rings.



4. Carefully roll the gloves from the middle groove to the outer groove.



5. Take the new glove and ensure the thumb is at the top. Stretch the ring of the new glove over the port and over the old glove onto the middle groove.



6. At the last groove, install the first O-ring over the new glove.



7. Carefully loosen the old glove from the outer groove. Then, install the second O-ring at the first groove.



8. Put the glove/sleeve inside the isolator.



9. Working with one hand in the adjacent glove, carefully pull the old glove.



10. The procedure is now complete.

SAFE GLOVE CHANGE PROCEDURE: REPLACING THE SLEEVES



1. Remove the screws that secure the glove port cover



2. Remove the outer glove port cover



3. Remove the "O" ring



4. Carefully roll the ring of the sleeves/gloves from the inner groove to the outer groove of the port



5. Ensure that the old sleeves/gloves is inside the isolator



6. Take the new sleeves and ensure the thumb is at the top and stretch the "O" ring of the new sleeves over the port and over the old sleeves into the inner groove

П



7. Replace the "O" ring into the outer groove of the glove port



8. Working with one hand in the adjacent sleeves, carefully work from the outer ring and into the isolator. The old sleeves needs to be remove while under the new sleeves

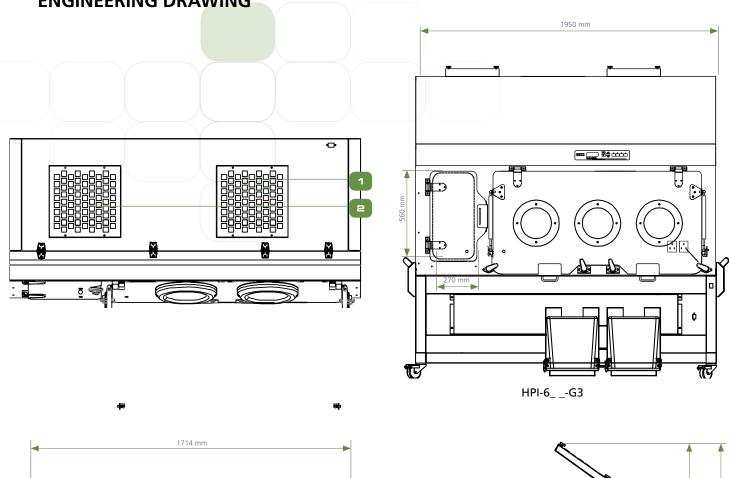


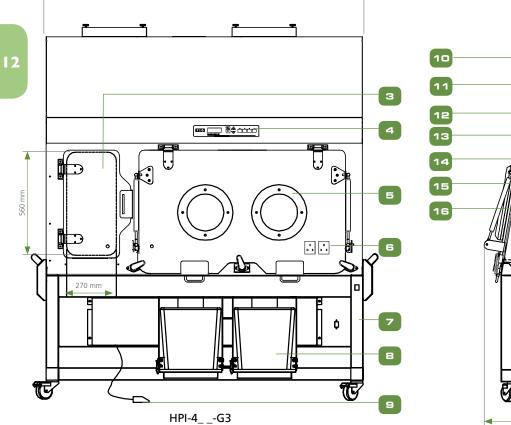
9. Return the glove port outer cover.

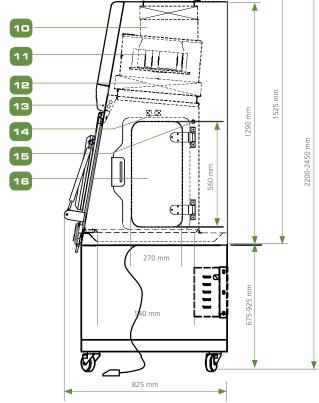


10. Secure the port cover with the screws. The procedure is now complete









- 1. Inlet Pre-filter 80% efficiency (HPI-N: Inlet H14 filter)
- 2. Exhaust H14 Filter
- 3. Pass-Thru, Hinged Outer Door
- 4. Esco Sentinel™ Gold Microprocessor Contol System
- 5. Round Glove Ports (200 mm)
- 6. Electrical Outlet (Optional)

- Hydraulic Height Adjustable Base Stand with Casters
- 8. Sharps disposal system (Optional)
- 9. Foot switch
- 10. Exhaust Fan
- 11. Supply Fan

- 12. Downflow H14 Filter
- 13. Fluorescent Lamp
- 14. IV Bar (Optional)
- 15. UV Lamp (Optional)
- 16. Pass-thru, Hinged Inner Door

GENERAL SPECIFI soclean® Healthcare Platform Iso	lator (HPI-G3) (without filter below	HPI-4G3		HPI-6G3		
Main Chamber Nominal Size (Width)		1130	1130 mm		1360 mm	
	Without stand	1714 x 825 x 1290 mm (67.5" x 3.25" x 50.8")		1950 x 825 x 1290 mm (76.8" x 3.25" x 50.8		
External Dimensions (W x D x H)	With Adjustable Stand (min)	1714 x 825 x 1975** mm (67.5" x 32.5" x 77.8")		1950 x 825 x 1975** mm(76.8" x 32.5" x 77.8		
	With Adjustable Stand (max)	1714 x 825 x 2225** mn	n (67.5" x 32.5" x 87.6")	1950 x 825 x 2225** mn	n (76.8" x 32.5 x 87.6	
Process Chamber Internal Dimen	sion (W x D x H)	1130 x 540 x 650 (44	1.5" x 21.3" x 25.6")	1360 x 540 x 650 mm (54.5" x 21.3" x 25.6")	
Pass Chamber Internal Dimension			318 x 540 x 650 mm (12.5" x 21.3" x 25.6")			
Pass Chamber Dimension -	Inner Door		270 x 560 mm	(10.6" x 22.0")		
(W x D x H)	Outer Door	270 x 560 mm (10.6" x 22.0")				
Glove Port Diameter			200) mm		
Glove Port Quantity		2	2	3		
Chamber Environment			Iso Class 5 all Ch	ambers (Grade A)		
 Pre-filter				ester fiber media		
		HEE		Metal Guards and Filter Fra	ma	
Downflow and Exhaust Filter Typ		1121		t With EN 1822 (H14) and	TIC .	
				3 Requirements		
Filter Efficiency			>99.999% for particle size	between 0.1 to 0.3 micron		
Lighting Level				00 Lux		
Sound Level				BD		
	M: D I	1.2 mm (0.05") 18 gauge		with white oven-baked epox	v-polvester antimicroh	
	Main Body			pated finish	, ,,	
Isolator Construction	Work Tray	1.5 mr	m (0.06") 16 gauge stainle	ss steel, type 316L, with 4B	finish	
	Side Walls	1.2 mr	m (0.05") 18 gauge stainle	ss steel, type 316L, with 4B	finish	
	220-240V, AC, 50 Hz, 1Ø					
	Cabinet Full Load Amps (FLA)	2.5 A	2A	3A	TBD	
	Optional Outlets FLA	5 A	5 A	5A	5 A	
	Cabinet Nominal Power	450 W	355W	480W	TBD	
	Cabinet BTU	1535 BTU/hr	1211 BTU/hr	1638 BTU/hr	TBD	
	110-120V,AC, 60 Hz, 1Ø	HPI-4N2-G3	HPI-4P2-G3	HPI-6N2-G3	HPI-6P2-G3	
	Cabinet Full Load Amps (FLA)	8A	6.8A	TBD	TBD	
Electrical	Optional Outlets FLA	5 A	5 A	5 A	5 A	
	Cabinet Nominal Power	295W	525W	TBD	TBD	
		2030 BTU/hr				
	Cabinet BTU		1793 BTU/hr	TBD	TBD	
	220-240V, AC, 60 Hz, 1Ø	HPI-4N3-G3	HPI-4P3-G3	HPI-6N3-G3	HPI-6P3-G3	
	Cabinet Full Load Amps (FLA)	3 A	TBD	TBD	TBD	
	Optional Outlets FLA	5 A	5 A	5 A	5 A	
	Cabinet Nominal Power	520 W	TBD	TBD	TBD	
	Cabinet BTU	1774 BTU/hr	TBD	TBD	TBD	
Compressed Air Requirement (by Client)	2 Bar-g Pressure at 5 L/sec		2	Bar		
	Adjustable Hydraulic Stand		/	/		
	Carbon Filter		/	✓		
	CCTV		/	✓		
	Drain		/		/	
Options/Accessories	Electrical Outlet		/		√	
	Glove leak Tester			/		
	IV Bar with S hooks			√ ✓		
	UV Lamp			√ √		
	Rear View Screen Adaptation					
				/		
Work Surface Options	Single-piece Trays	•		✓		
	Multiple-piece Trays	V		✓ 		
	Sharps Disposal	V		✓		
Transfer Options	Continuous Liners for BIBO	·	/	/		
	Bag Welder for Continuous Liner System	✓		/		
		540) kg	900	kg	
Shipping Weight		580				
Shipping Dimensions, Maximum	(W x D x H)	1950 x 950		950 kg		
Shipping Volume, Maximum*		4.09 m³ (3200 x 1060 x 2250 mm		
				7.63 m³		
BUILDING EXHAUST REQUIREMENTS		HPI-4_		HPI-6G3		
		190 cmh	at 80 Pa ig, 20% exhaust)	286 cmh at 100 Pa (80% recirculating, 20% exhaust)		



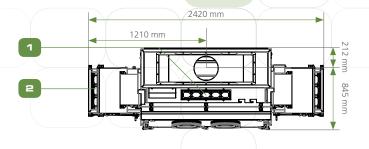
^{**} Total unit only with adjustable stand

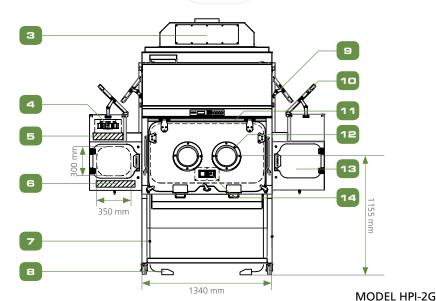
1. Add 150mm height, With Exhaust Collar or Carbon filter

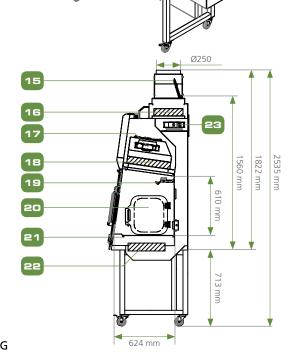
2. Add 90mm height, with cover for manual pressure test

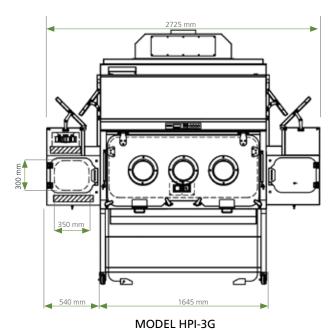
ENGINEERING DRAWING

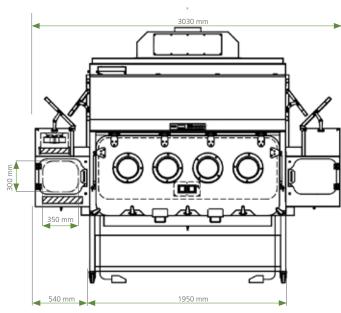
NOTE: FOR CARBON FILTER OPTION, ADD 80mm TO OVERALL HEIGHT











1. Exhaust Collar

- 2. Pass Chamber Inlet Pre-filter (G4 Pre-filter)
- 3. Process Chamber Inlet, Manual Damper
- 4. Pass Chamber Supply Fan
- 5. Pass Chamber Supply Filter, HEPA (H14) Filter
- 6. Pass Chamber Exhaust Filter, HEPA (H14) Filter
- 7. Support Stand
- 8. Foot Switch for Inner Door

9. Process Chamber Inlet Pre-filter (G4 Pre-filter)

- 10. Pass Chamber Inlet, Manual Damper
- 11. Esco Sentinel™ Gold Microprocessor Control System
- 12. Circular Glove Ports (200 mm)
- 13. Pass Chamber Outer Door
- 14. 2x Electrical Outlet Provision
- 15. Exhaust Collar, Manual Damper (for negative pressure isolator only)

MODEL HPI-4G

- 16. 2nd Exhaust Filter, HEPA (H14) Filter
- 17. Process Chamber Supply Fan
- 18. Process Chamber Supply Filter, HEPA (H14) Filter
- 19. IV Bar with 6 Hooks (Optional)
- 20. Pass Chamber Inner Door
- 21. Work Zone Tray
- 22. 1st Exhaust Filter HEPA (H114) Filter
- 23. Exhaust Fan

GENERAL SPECION SPECION SPECIAL SPECIA		HPI-2G	HPI-3G	HPI-4G		
with filter below)		4222 (41)	4505 (5)	4020 (5)		
Main Chamber Nominal Size (Wid		1220 mm (4') 2420 x 845 x 1822 mm	1525 mm (5') 2725 x 845 x 1822 mm	1830 mm (6') 3030 x 845 x 1822 mm		
	Without Base Stand	(95.3" x 32.7" x 71.7")	(107.3" x 32.7" x 71.7")	(119.3" x 32.7" x 71.7")		
External Dimension (with two Pass Chamber) (L x W x H)	With Base Stand (Min)	2420 x 845 x 2507 mm (95.3" x 32.7" x 98.7")	2725 x 845 x 2507 mm (107.3" x 32.7" x 98.7")	3030 x 845 x 2507 mm (119.3" x 32.7" x 98.7")		
	With Base Stand (Max)	2420 x 845 x 2757 mm (95.3" x 32.7" 108.5")	2725 x 845 x 2757 (107.3" x 32.7" x 108.5")	3030 x 845 x 2757 mm (119.3" x 32.7" x 108.5")		
Process Chamber Work Zone (W x	D x H)	1215 x 624 x 610 mm (47.8" x 24.6" x 24.0")	1520 x 624 x 610 mm (59.8" x 24.6" x 24.0")	1825x 624 x 610 mm (71.9" x 24.6" x 24.0")		
		(1112 112 112 112 112 11	577 x 410 x 320 mm			
Work Zone and Interchange Chan	nber Performance	(22.7" x 16.1" x 12.6") ISO Class 5 all Chamber (Grade A)				
Pre-filter			G4, panel, polyester fiber media	/		
Inlet Filter Type			80% efficiency pre-filter			
		11504 1144 121 1		P. 4 N. EN 4000		
Downflow and Exhaust Filter Type			al Mesh Guard and Gasket Seal, fully	•		
Typical Filter Efficiency		>99.99	9% for particle size between 0.1 to	U.3 micron		
			TBD			
			> 800 Lux			
	Main Body	1.5 mm (0.06") 18 gauge electr	o-galvanized steel with white oven-l powder-coated finish	paked epoxy-polyester antimicr		
	Work Tray	1.5 mm (0.06	5") 16 gauge stainless steel, type 316	5L, with 4B finish		
	Side Walls	1.5 mm (0.06	5") 16 gauge stainless steel, type 316	SL, with 4B finish		
	220-240V, AC, 50 Hz, 1Ø	HPI-2G8	HPI-3G8	HPI-4G8		
	Cabinet Full Load Amps (FLA)	12.1A	12.1A	12.1A		
	Optional Outlets FLA	10 A (5A per outlet)	10 A (5A per outlet)	10 A (5A per outlet)		
	Cabinet Nominal Power	284 W	377 W	600 W		
:lectrical	Cabinet BTU	970 BTU/hr	1,286 BTU/hr	2,047 BTU/hr		
	110-120V,AC, 60 Hz, 1Ø	HPI-2G9	HPI-3G9	HPI-4G9		
	Cabinet Full Load Amps (FLA)	20A	20A	20A		
	Optional Outlets FLA	10 A (5A per outlet)	10 A (5A per outlet)	10 A (5A per outlet)		
	Cabinet Nominal Power	346 W	TBD	700W		
	Cabinet BTU	1,181 BTU/hr	TBD	2,388 BTU/hr		
Compressed Air Requirement (by Client)	2 Bar-g Pressure at 5 L/sec		2 Bar			
	Adjustable Hydraulic Stand	✓	✓	✓		
	Carbon VOC Filter with Housing	✓	✓	✓		
	Carbon Filter	✓	✓	✓		
	CCTV	✓	✓	✓		
	Electrical Outlet	✓	✓	✓		
General Options/ Accessories	Hard Ducting with Antiblowback	✓	✓	/		
	IV Bars with hooks	/	√	/		
	Glove Leak Tester	✓	✓	✓		
				/		
	Rear View Screen Adaptation	✓	✓	v		
	Rear View Screen Adaptation UV Lamp	✓ ✓	/	√		
Nork Surface Options	UV Lamp	✓	/	✓		
Nork Surface Options	UV Lamp Single Piece Trays	<i>y</i>	/	<i>I</i>		
	UV Lamp Single Piece Trays Multiple Piece Trays	<i>J</i>	/	√ √ ✓		
	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal	/ / /	/ / /	<i>y y y y y y</i>		
Fransfer Options	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner	/ / / /	/ / / /	/ / / /		
Transfer Options	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner	/ / / /	/ / / /	7 7 7 7 7 7 7		
Fransfer Options Net Weight Shipping Weight	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner System	✓ ✓ ✓ ✓ ✓ ✓	/ / / / / / / 750 kg	✓ ✓ ✓ ✓ ✓ 903 kg 953 kg		
Transfer Options Net Weight Shipping Weight Shipping Dimensions, Maximum (UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner System	✓ ✓ ✓ ✓ ✓ 670 kg	/ / / / / / / / / / / / / / / 800 kg	✓ ✓ ✓ ✓ ✓ 903 kg 953 kg		
Transfer Options Net Weight Shipping Weight Shipping Dimensions, Maximum (Shipping Volume, Maximum*	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner System W x D x H)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 670 kg 745 kg 2400 x 1040 x 2260 mm	7 7 7 7 7 750 kg 800 kg 2700 x 1050 x 2230 mm	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 903 kg 953 kg 3200 x 1060 x 2250 mm		
Fransfer Options Net Weight Shipping Weight Shipping Dimensions, Maximum (Shipping Volume, Maximum* BUILDING EXHAUST REQUIREMEN	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner System W x D x H)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	7 7 7 7 7 7 7 7 7 7 7 7 800 kg 800 kg 2700 x 1050 x 2230 mm 6.32 m ³	✓ ✓ ✓ ✓ ✓ 903 kg 953 kg 3200 x 1060 x 2250 mm 7.63 m³		
Transfer Options Net Weight Shipping Weight Shipping Dimensions, Maximum (Shipping Volume, Maximum* BUILDING EXHAUST REQUIREMEN	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner System W x D x H)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 670 kg 745 kg 2400 x 1040 x 2260 mm 5.64 m³ HPI-2G	7 7 7 7 7 7 7 7 7 7 7 7 7	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 903 kg 953 kg 3200 x 1060 x 2250 mm 7.63 m³ HPI-4G		
Work Surface Options Transfer Options Net Weight Shipping Weight Shipping Dimensions, Maximum (Shipping Volume, Maximum* BUILDING EXHAUST REQUIREMEN Recirculating	UV Lamp Single Piece Trays Multiple Piece Trays Sharps Disposal Continuous Liners for BIBO Bag Welder for Continuous Liner System W x D x H)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	/ / / / / / / / / / / / / / / / / / /	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ 903 kg 953 kg 3200 x 1060 x 2250 mm 7.63 m³ HPI-4G 296 cmh @ 50 Pa		



ORDERING INFORMATION

Isoclean® Healthcare Platform Isolator - WITHOUT Filter Below Work Zone			
Model Code	Item Code	Description	
HPI-4P1-G3-0	2060097	4' Positive Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-4P2-G3-0	2060098	4' Positive Pressure Isolator Only, No Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-4P3-G3-0	2060099	4' Positive Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 60 Hz	
HPI-6P1-G3-0	2060100	6' Positive Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-6P2-G3-0	2060101	6' Positive Pressure Isolator Only, No Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-6P3-G3-0	2060102	6' Positive Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 60 Hz	
HPI-4N1-G3-0	2060103	4' Negative Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-4N2-G3-0	2060104	4' Negative Pressure Isolator Only, No Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-4N3-G3-0	2060105	4' Negative Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 60 Hz	
HPI-6N1-G3-0	2060106	6' Negative Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-6N2-G3-0	2060107	6' Negative Pressure Isolator Only, No Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-6N3-G3-0	2060108	6' Negative Pressure Isolator Only, No Sharps Provisions, 220-240 VAC, 60 Hz	
HPI-4P1-G3-S	2060109	4' Positive Pressure Isolator With Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-4P2-G3-S	2060110	4' Positive Pressure Isolator With Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-4P3-G3-S	2060111	4' Positive Pressure Isolator With Sharps Provisions, 220-240 VAC, 60 Hz	
HPI-6P1-G3-S	2060112	6' Positive Pressure Isolator With Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-6P2-G3-S	2060113	6' Positive Pressure Isolator With Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-6P3-G3-S	2060114	6' Positive Pressure Isolator With Sharps Provisions, 220-240 VAC, 60 Hz	
HPI-4N1-G3-S	2060115	4' Negative Pressure Isolator With Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-4N2-G3-S	2060116	4' Negative Pressure Isolator With Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-4N3-G3-S	2060117	4' Negative Pressure Isolator With Sharps Provisions, 220-240 VAC, 60 Hz	
HPI-6N1-G3-S	2060118	6' Negative Pressure Isolator With Sharps Provisions, 220-240 VAC, 50 Hz	
HPI-6N2-G3-S	2060119	6' Negative Pressure Isolator With Sharps Provisions, 110-120 VAC, 60 Hz	
HPI-6N3-G3-S	2060120	6' Negative Pressure Isolator With Sharps Provisions, 220-240 VAC, 60 Hz	

	Isoclean® Healthcare Platform Isolator - WITH Filter Below Work Zone		
Model Code	Item Code	Description	
HPI-2G8-PS0-0	2060121	Positive Pressure Isolator Only, 2 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G8-PS0-S	2060122	Positive Pressure Isolator, 2 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G9-PS0-0	2060123	Positive Pressure Isolator Only, 2 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz	
HPI-2G9-PS0-S	2060124	Positive Pressure Isolator, 2 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz	
HPI-2G8-PSL-0	2060125	Positive Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G8-PSL-S	2060126	Positive Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G8-PSR-0	2060127	Positive Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G8-PSR-S	2060128	Positive Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G8-PS2-0	2060129	Positive Pressure Isolator Only, 2 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G8-PS2-S	2060130	Positive Pressure Isolator, 2 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz	
HPI-2G9-PSL-0	2060131	Positive Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz	
HPI-2G9-PSL-S	2060132	Positive Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 110-120 VAC, 50/60 Hz	
HPI-2G9-PSR-0	2060133	Positive Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz	

HPI-2G9-PSR-S	2060134	Positive Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-PS2-0	2060135	Positive Pressure Isolator Only, 2 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-PS2-S	2060136	Positive Pressure Isolator, 2 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G8-NS0-0	2060137	Negative Pressure Isolator Only, 2 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NS0-S	2060138	Negative Pressure Isolator, 2 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G9-NS0-0	2060139	Negative Pressure Isolator Only, 2 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NS0-S	2060140	Negative Pressure Isolator, 2 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G8-NSL-0	2060141	Negative Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NSL-S	2060142	Negative Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NSR-0	2060143	Negative Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NSR-S	2060144	Negative Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NS2-0	2060145	Negative Pressure Isolator Only, 2 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NS2-S	2060146	Negative Pressure Isolator, 2 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G9-NSL-0	2060147	Negative Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NSL-S	2060148	Negative Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NSR-0	2060149	Negative Pressure Isolator Only, 2 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NSR-S	2060150	Negative Pressure Isolator, 2 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NS2-0	2060151	Negative Pressure Isolator Only, 2 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NS2-S	2060152	Negative Pressure Isolator, 2 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G8-NR0-0	2060153	Negative Pressure Isolator Only, 2 gloves, Recirculating, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NR0-S	2060154	Negative Pressure Isolator, 2 gloves, Recirculating, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G9-NR0-0	2060155	Negative Pressure Isolator Only, 2 gloves, Recirculating, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NR0-S	2060156	Negative Pressure Isolator, 2 gloves, Recirculating, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G8-NRL-0	2060157	Negative Pressure Isolator Only, 2 gloves, Recirculating, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NRL-S	2060158	Negative Pressure Isolator, 2 gloves, Recirculating, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NRR-0	2060159	Negative Pressure Isolator Only, 2 gloves, Recirculating, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NRR-S	2060160	Negative Pressure Isolator, 2 gloves, Recirculating, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NR2-0	2060161	Negative Pressure Isolator Only, 2 gloves, Recirculating, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G8-NR2-S	2060162	Negative Pressure Isolator, 2 gloves, Recirculating, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-2G9-NRL-0	2060163	Negative Pressure Isolator Only, 2 gloves, Recirculating, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NRL-S	2060164	Negative Pressure Isolator, 2 gloves, Recirculating, 1 Pass Chamber (Left), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NRR-0	2060165	Negative Pressure Isolator Only, 2 gloves, Recirculating, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NRR-S	2060166	Negative Pressure Isolator, 2 gloves, Recirculating, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NR2-0	2060167	Negative Pressure Isolator Only, 2 gloves, Recirculating, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-2G9-NR2-S	2060168	Negative Pressure Isolator, 2 gloves, Recirculating, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G8-PS0-0	2060169	Positive Pressure Isolator Only, 3 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-PS0-S	2060170	Positive Pressure Isolator, 3 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G9-PS0-0	2060171	Positive Pressure Isolator Only, 3 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-PS0-S	2060172	Positive Pressure Isolator, 3 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G8-PSL-0	2060173	Positive Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-PSL-S	2060174	Positive Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-PSR-0	2060175	Positive Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-PSR-S	2060176	Positive Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-PS2-0	2060177	Positive Pressure Isolator Only, 3 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz



HPI-3G8-PS2-S	2060178	Positive Pressure Isolator, 3 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G9-PSL-0	2060179	Positive Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-PSL-S	2060180	Positive Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-PSR-0	2060181	Positive Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-PSR-S	2060182	Positive Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-PS2-0	2060183	Positive Pressure Isolator Only, 3 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-PS2-S	2060184	Positive Pressure Isolator, 3 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G8-NS0-0	2060185	Negative Pressure Isolator Only, 3 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NS0-S	2060186	Negative Pressure Isolator, 3 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G9-NS0-0	2060187	Negative Pressure Isolator Only, 3 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NS0-S	2060188	Negative Pressure Isolator, 3 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G8-NSL-0	2060189	Negative Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NSL-S	2060190	Negative Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NSR-0	2060191	Negative Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NSR-S	2060192	Negative Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NS2-0	2060193	Negative Pressure Isolator Only, 3 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NS2-S	2060194	Negative Pressure Isolator, 3 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G9-NSL-0	2060195	Negative Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NSL-S	2060196	Negative Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NSR-0	2060197	Negative Pressure Isolator Only, 3 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NSR-S	2060198	Negative Pressure Isolator, 3 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NS2-0	2060199	Negative Pressure Isolator Only, 3 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NS2-S	2060200	Negative Pressure Isolator, 3 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G8-NR0-0	2060201	Negative Pressure Isolator Only, 3 gloves, Recirculating, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NR0-S	2060202	Negative Pressure Isolator, 3 gloves, Recirculating, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G9-NR0-0	2060203	Negative Pressure Isolator Only, 3 gloves, Recirculating, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NR0-S	2060204	Negative Pressure Isolator, 3 gloves, Recirculating, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G8-NRL-0	2060205	Negative Pressure Isolator Only, 3 gloves, Recirculating, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NRL-S	2060206	Negative Pressure Isolator, 3 gloves, Recirculating, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NRR-0	2060207	Negative Pressure Isolator Only, 3 gloves, Recirculating, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NRR-S	2060208	Negative Pressure Isolator, 3 gloves, Recirculating, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NR2-0	2060209	Negative Pressure Isolator Only, 3 gloves, Recirculating, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G8-NR2-S	2060210	Negative Pressure Isolator, 3 gloves, Recirculating, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-3G9-NRL-0	2060211	Negative Pressure Isolator Only, 3 gloves, Recirculating, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NRL-S	2060212	Negative Pressure Isolator, 3 gloves, Recirculating, 1 Pass Chamber (Left), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NRR-0	2060213	Negative Pressure Isolator Only, 3 gloves, Recirculating, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NRR-S	2060214	Negative Pressure Isolator, 3 gloves, Recirculating, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NR2-0	2060215	Negative Pressure Isolator Only, 3 gloves, Recirculating, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-3G9-NR2-S	2060216	Negative Pressure Isolator, 3 gloves, Recirculating, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G8-PS0-0	2060217	Positive Pressure Isolator Only, 4 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 220-240VAC, 50/60 Hz
HPI-4G8-PS0-S	2060218	Positive Pressure Isolator, 4 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G9-PS0-0	2060219	Positive Pressure Isolator Only, 4 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-PS0-S	2060220	Positive Pressure Isolator, 4 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G8-PSL-0	2060221	Positive Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz

HPI-4G8-PSL-S	2060222	Positive Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-PSR-0	2060223	Positive Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-PSR-S	2060224	Positive Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-PS2-0	2060225	Positive Pressure Isolator Only, 4 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-PS2-S	2060226	Positive Pressure Isolator, 4 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G9-PSL-0	2060227	Positive Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-PSL-S	2060228	Positive Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-PSR-0	2060229	Positive Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-PSR-S	2060230	Positive Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-PS2-0	2060231	Positive Pressure Isolator Only, 4 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-PS2-S	2060232	Positive Pressure Isolator, 4 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G8-NS0-0	2060233	Negative Pressure Isolator Only, 4 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NS0-S	2060234	Negative Pressure Isolator, 4 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G9-NS0-0	2060235	Negative Pressure Isolator Only, 4 gloves, Single Pass, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NS0-S	2060236	Negative Pressure Isolator, 4 gloves, Single Pass, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G8-NSL-0	2060237	Negative Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NSL-S	2060238	Negative Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NSR-0	2060239	Negative Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NSR-S	2060240	Negative Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NS2-0	2060241	Negative Pressure Isolator Only, 4 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NS2-S	2060242	Negative Pressure Isolator, 4 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G9-NSL-0	2060243	Negative Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Left), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NSL-S	2060244	Negative Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Left), With Sharps Provision, 110-120VAC, 50/60 Hz
HPI-4G9-NSR-0	2060245	Negative Pressure Isolator Only, 4 gloves, Single Pass, 1 Pass Chamber (Right), No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NSR-S	2060246	Negative Pressure Isolator, 4 gloves, Single Pass, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NS2-0	2060247	Negative Pressure Isolator Only, 4 gloves, Single Pass, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NS2-S	2060248	Negative Pressure Isolator, 4 gloves, Single Pass, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G8-NR0-0	2060249	Negative Pressure Isolator Only, 4 gloves, Recirculating, No Pass Chamber, No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NR0-S	2060250	Negative Pressure Isolator, 4 gloves, Recirculating, No Pass Chamber, With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G9-NR0-0	2060251	Negative Pressure Isolator Only, 4 gloves, Recirculating, No Pass Chamber, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NR0-S	2060252	Negative Pressure Isolator, 4 gloves, Recirculating, No Pass Chamber, With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G8-NRL-0	2060253	Negative Pressure Isolator Only, 4 gloves, Recirculating, 1 Pass Chamber (Left), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NRL-S	2060254	Negative Pressure Isolator, 4 gloves, Recirculating, 1 Pass Chamber (Left), With Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NRR-0	2060255	Negative Pressure Isolator Only, 4 gloves, Recirculating, 1 Pass Chamber (Right), No Sharps Provision, 220-240 VAC, 50/60 Hz
HPI-4G8-NRR-S	2060256	Negative Pressure Isolator, 4 gloves, Recirculating, 1 Pass Chamber (Right), With Sharps Provision, 220-240VAC, 50/60Hz
HPI-4G8-NR2-0	2060257	Negative Pressure Isolator Only, 4 gloves, Recirculating, 2 Pass Chambers, No Sharps Provision, 220-240VAC, 50/60Hz
HPI-4G8-NR2-S	2060258	Negative Pressure Isolator, 4 gloves, Recirculating, 2 Pass Chambers, With Sharps Provision, 220-240VAC, 50/60Hz
HPI-4G9-NRL-0	2060259	Negative Pressure Isolator Only, 4 gloves, Recirculating, 1 Pass Chamber (Left), No Sharps Provision, 110-120VAC, 50/60Hz
HPI-4G9-NRL-S	2060260	Negative Pressure Isolator, 4 gloves, Recirculating, 1 Pass Chamber (Left), With Sharps Provision, 110-120VAC, 50/60Hz
HPI-4G9-NRR-0	2060261	Negative Pressure Isolator Only, 4 gloves, Recirculating, 1 Pass Chamber (Right), No Sharps Provision, 110-120VAC, 50/60Hz
HPI-4G9-NRR-S	2060262	Negative Pressure Isolator, 4 gloves, Recirculating, 1 Pass Chamber (Right), With Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NR2-0	2060263	Negative Pressure Isolator Only, 4 gloves, Recirculating, 2 Pass Chambers, No Sharps Provision, 110-120 VAC, 50/60 Hz
HPI-4G9-NR2-S	2060264	Negative Pressure Isolator, 4 gloves, Recirculating, 2 Pass Chambers, With Sharps Provision, 110-120 VAC, 50/60 Hz





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