

Pharm-Assist Range

Eliminating contamination risks

The Pharm-Assist range of positive pressure isolators has been created to protect pharmaceutical products being handled in hospital pharmacies and laboratories involved in the drug discovery process and ensure patient safety.

The range is suitable for aseptic preparation, compounding and dispensing of non-hazardous drugs and therapies, such as TPN and CIVAS, as well as Quality Control activities. It provides total suppression of airborne contamination during material transfers in and out.

With a range of models to suit routine processes through to highly complex applications, our engineers put product protection, comfort and ease of use at the heart of our designs.



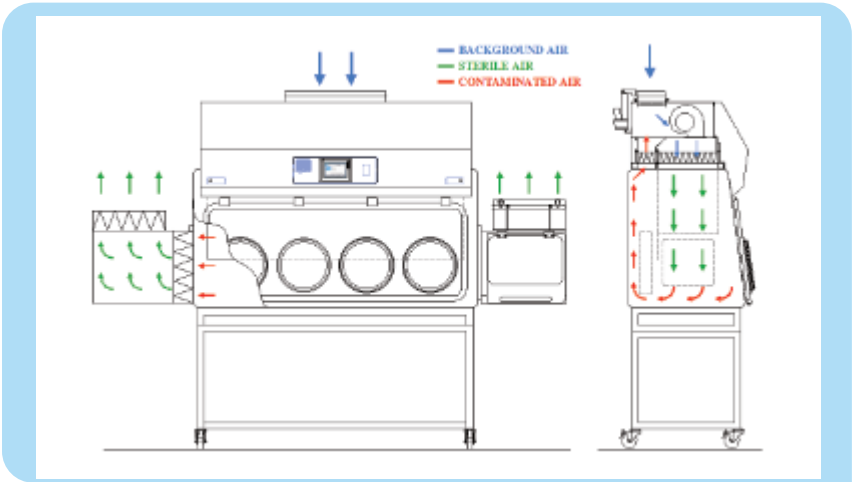
Pharm-Assist range of positive pressure isolators

KEY FEATURES

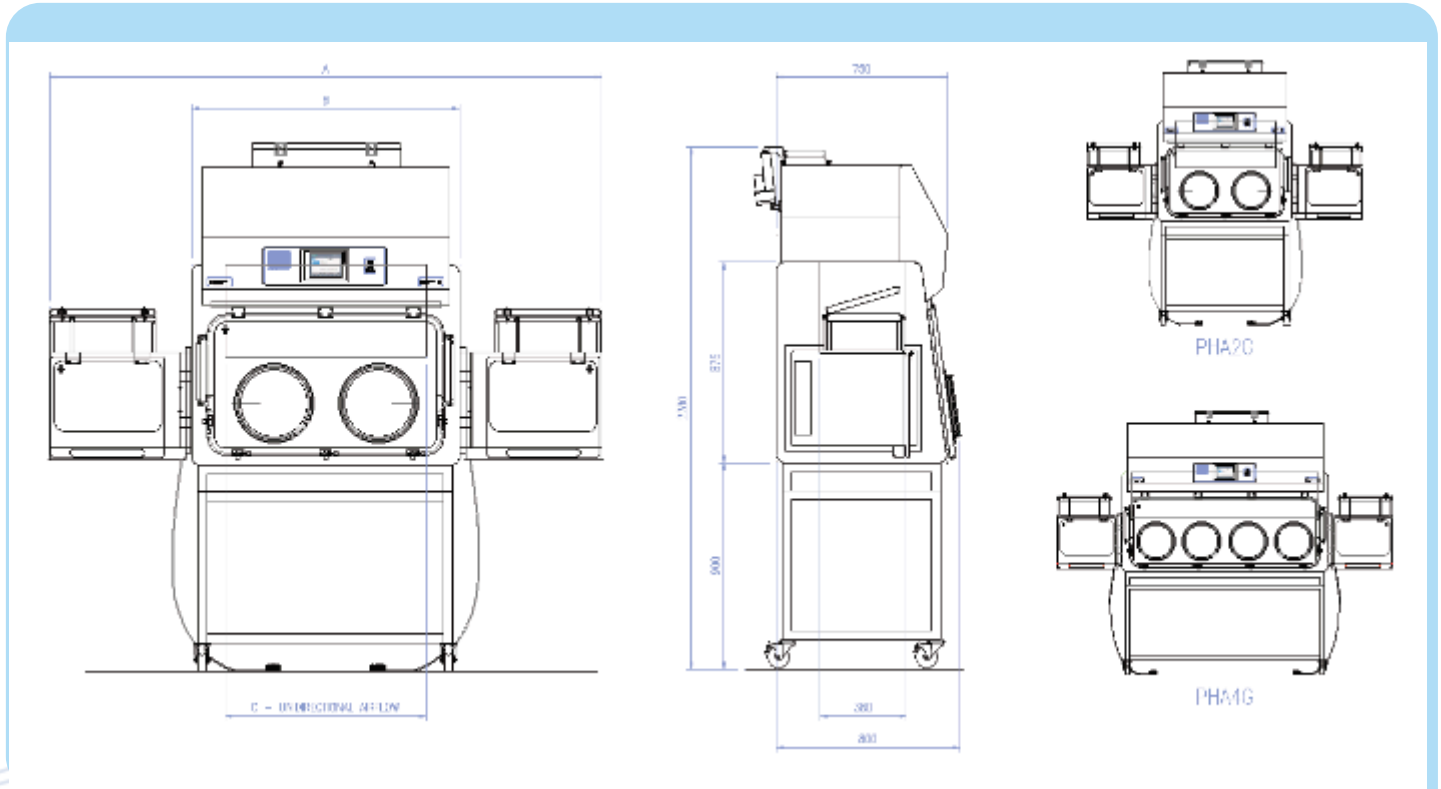
- ~~Unidirectional airflow in defined critical zone provides EU-~~
GMP Grade A air quality
- PLC controls for easy set-up, operation and maintenance
- High air change rate D type transfer chambers with electromagnetic timed interlocks
- User friendly automatic pressure decay leak test
- Two-glove and four-glove models available in rigid coated stainless steel or flexible PVC
- Stainless steel base allows users to house equipment such as automatic compounders or sterility testers

123/03_04/24

Airflow diagram



Model designations and dimensions



MODEL	MODEL DESCRIPTION	Pharm-Assist R (Rigid)				Pharm-Assist F (Flexible)			All
		A (mm)	B (mm)	C (mm)	Wt (kg)	A (mm)	B (mm)	Wt (kg)	
2G2 1.2m	Two glove ports, two transfer chambers, full width defined unidirectional airflow zone	2420	1170	880	320	2290	1050	220	500 (2.2A)
2G2 1.5m	Two glove ports, two transfer chambers, full width defined unidirectional airflow zone	2745	1500	1330	320	2290	1050	220	500 (2.2A)
4G2 FLF 1.8m	Four glove ports, two transfer chambers, full width defined unidirectional airflow zone	2925	1800	1630	395	2920	1800	265	630 (6.3A)

Pharm-Assist Range



a STANDARD SPECIFICATION		UPGRADES
Main chamber	• Rigid (R) models: white polyester coated stainless steel externally and polished internally • Flexible (F) models: high quality 0.5mm PVC canopy sealed to dished 316L stainless steel base-tray, all supported on tubular stainless steel framework • Stainless steel hanging rail with six hooks supplied as standard • Unidirectional airflow (vertically downwards) in defined zone - 0.4 m/s +/- 20% • Internal air change rate indicative 750 air changes per hour	• Optional external polished stainless finish (R models) • Optional waste port or continuous liner or double bag out to clients specification
Transfer devices	• Two D type double HEPA filtered transfer chambers with electromagnetic interlocks on adjustable timers, footswitches for inner doors, and sliding trays • High air change rate - 1350 air changes per hour • Sealing lids for automatic pressure decay leak test • White polyester coated stainless steel externally and internally	• Optional arrangement with one transfer chamber only
Stand	• Polyester coated mild steel table frame with lockable castors	• Optional adjustable levelling feet • Optional 'Vari-Height' electrically operated support frame
Access	• Large opening acrylic visor, supported by gas springs in the open position, and complete with bonded 300 mm diameter sleeve ports (R models) • Optical quality vision panel with welded 300 mm diameter sleeve ports (F models) • Fabric lined polyurethane sleeves, universal cuff-rings and all associated O-rings for aseptic glove changes when used with sterile-wrapped, beaded, powder-free gloves	• Optional elliptical ports or other port diameters upon request • Optional airtight zipped access port or large simple port for large equipment (F models)
Controls and electrics	• PLC control system with full colour touchscreen HMI operator interface with password access • All critical operating parameters, internal pressure, HEPA filter pressure drop and air change rate permanently monitored and displayed • Automated pressure decay test • Latched audible and visible alarm for internal pressure and downflow air change rate failure and for transfer chamber door not closed. Alarm mute. Battery back-up for alarms • Sealed LED Light tubes giving 500 lux minimum at the work surface • Electrics designed for 230v/50Hz1Ph supply	• Optional digital display of transfer chamber pressure • Optional fully automated pressure decay test, includes actuated sealing lids for transfer chambers and supply air inlet • Optional alternative electrical supplies – to be specified by purchaser
Airflow and filtration	• Air is supplied into the main chamber by the downflow fan and HEPA filter. This air is guided by acrylic downflow screens which define the unidirectional airflow zone. A proportion of the air returns to the downflow fan via a duct at the top rear of the main chamber to mix with the pre-filtered supply air from the room before returning to the downflow fan and HEPA filter. The rest of the air leaves via the two double HEPA-filtered transfer chambers. • All HEPA filters H14 (BS EN 1822-1:2019)	
Testing and maintenance	• DOP/particle counter test ports in visor of main chamber and in outer doors of transfer chambers • All maintenance from front of unit with lockable front panel for control hardware and downflow system	

OPTIONAL EXTRAS

- 316L stainless steel polished internally and externally (R models)
- 13 amp single splashproof socket
- Service taps
- Cable gland for computer connection
- Sealed computer screen in rear wall of main chamber
- Integration with paperless electronic dispensing systems
- CCTV monitoring and recording system
- Vapour phase hydrogen peroxide biodecontamination system pipework and valves only
- Vapour phase hydrogen peroxide biodecontamination system
- Glove sleeve leak test disc with digital manometer
- Validation with documentation for IQ/OQ including FAT and SAT, or to full GAMP

Pharm-Assist Range

Clean Air & Containment



Vari-height floor stand with castors



Integrated touch screen monitor & BD CATO integration



Viable air sampling



Sliding hatch tray & magnetic door catches



Human Machine Interface (HMI)

STANDARDS COMPLIANCE

BS EN ISO 14644, EU GMP, BS EN 1822 (HEPA FILTERS), IEC 61010-1:2001 (ELECTRIC WIRING), 'PHARMACEUTICAL ISOLATORS' PHARMACEUTICAL, PRESS 2004

QUALITY STATEMENT

Envair Technology provides world class design and manufacturing expertise for a full portfolio of clean room and containment solutions. We work with healthcare, pharmaceutical and laboratory facilities around the world, to protect the safety of teams handling hazardous compounds and maintain product integrity. Our engineers and production team are committed to the highest standards of excellence, meeting the requirements of ISO 9001:2015. We provide a comprehensive maintenance, testing and parts service for all our products, to ensure a lifetime of trouble-free use.

123/03_04/24