

ESCO
PHARMA[®]

Streamline[®]

**Closed - Restricted Access
Barrier System (Recirculating)**

*Ensuring Sterility for High Quality
Compounding*



Streamline® Closed Restricted Access Barrier System



Main Features

- ULPA filters (as per IEST-RP-CC001.3 and HEPA (H14) filter as per EN 1822) with a typical efficiency of >99.995% at 0.1 to 0.3 microns, providing ISO Class 5 air cleanliness as per ISO 14644-1.
- Sentinel™ Gold Microprocessor controller supervises all functions and monitors airflow and pressures in real-time.
- For negatively pressured RABS, the work zone and pass-through chambers are under negative pressure to the room to maintain operator protection in the event of a breach in the system.
- Positively pressured configurations are under positive pressure to the room to ensure product protection.
- Robust dual-wall construction. The work zone is surrounded by negative pressure plenums at the sides and back. Unique Esco Dynamic Chamber™ plenum surrounds filter seals with negative pressure.
- Ergonomically angled front and oval gloveports improve reach and comfort.
- Safe-change cuff rings permit glove changing with zero risk of contaminating the work zone and/or pharmacy environment.
- Easy to clean one-piece work zone liner without any crevices.
- Esco **ISOCIDE™** antimicrobial coating on all painted surfaces to minimize contamination.
- Sharps disposal system and hydraulic heightadjustable stand are available as options.
- Utilizes energy-efficient light-emitting diode (LED), offering higher durability and enhanced lighting quality with an intensity >800 Lux.

Available in 1.2 and 1.8 meters models (4' and 6'). Esco Streamline® Closed Restricted Access Barrier System (Recirculating), Model SLC-RABS-4N is shown with optional sharps disposal system and optional hydraulic height adjustable stand.

Streamline® Closed - Restricted Access Barrier System

SLC-RABS-4N3-S

Unit	Model	Nominal Width		Pressure Scheme		Electrical Code		Sharps Provision	
Streamline® Closed - Restricted Access Barrier System	SLC-RABS	4	4 ft (1.2 m)	N	Negative	1	220-240 V, AC, 50 Hz, 1Ø	0	No
		6	6 ft (1.8 m)	P		2	110-120 V, AC, 50 Hz, 1Ø	S	Yes
				3	220-240 V, AC, 60 Hz, 1Ø				

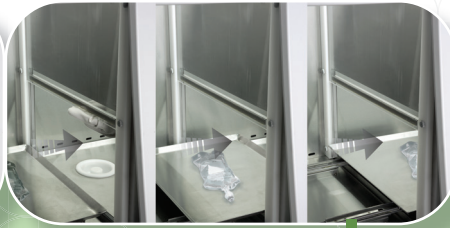
Vertical Pass-through Door

The vertical pass-through door prevents ingress of contamination into the work zone during transfer procedures. The built-in electrical interlock prevents both doors from being opened at the same time.



Horizontal Tray

The horizontal tray prevents operator fatigue during transfer procedures.



Optional Sharps Disposal System

The sharps disposal system enables smoother work flow and minimizes transfers via disposal of waste through the work surface into the bins below; thus, minimizing contamination of the work zone.



Airlock Pass-through

The airlock pass-through ensures work zone remains sterile during material ingress and egress.



Adjustable Hydraulic Support Stand

The motorized hydraulic stand option, is adjustable to accommodate user preference for a sitting or standing work position.

Criteria	RABS	ISOLATOR
Decontamination	Manually disinfected	Quantifiable and high reproducible method by an automated system
Assurance of Separation	No complete physical separation	Quantifiable hourly leak rate (closed) and continuously controlled differential pressure
Surrounding Environment	Passive: ISO 5 Active: ISO 7	US cGMP: ISO 8 EU cGMP: Grade D
Containment Applications	Low capability	Quantifiable leakage tightness (ISO 10648-2)
Glove Leak Test	Not applicable	Mandatory; Quantifiable glove integrity
Capital Costs	Higher than conventional cleanroom (CCR); reduced with renovation and retrofit application	High equipment costs
Operating Costs	Higher than CCR	Cost saving in energy consumption (HVAC) and clothing
Toxic Containment	Low capability	Good reliability

Closed Restricted Access Barrier Systems (cRABS)

As per USP <797> a restricted access barrier system (RABS) is an enclosure providing a HEPA-filtered ISO Class 5 unidirectional air that allows for the ingress and/or egress of materials through defined openings that have been designed and validated to prevent the risk for cross-contamination.

A closed RABS provide superior sterility as compared to open front clean air devices (laminar flow clean benches and Class II biological safety cabinets). A pharmaceutical isolator on the other-hand is defined

by USP <797> as an enclosure that provides HEPA-filtered ISO Class 5 unidirectional air operated at a continuously higher pressure than the surrounding environment.

USP <800> states that a Compounding Aseptic Containment Isolator (CACI) is intended for the compounding of sterile Hazardous Drugs and is designed to provide operator, product, and environment protection. For facilities that do not need to comply with the United States Pharmacopoeia (USP), then the system can still be called an isolator, however, it will not be in line with international cGMP guidelines.

Streamline® Closed Restricted Access Barrier System



Product, Operator and Environment Protection

Esco Streamline® Closed - Restricted Access Barrier System (Recirculating) Models, provide a safe and clean environment for sterile drug compounding in compliance with USP <797> criteria.

SLC-RABS: A Safe and Efficient Solution

SLC-RABS is a safe and efficient solution for the production of low-volume pharmaceuticals as well as with practices concerning:

- Operator aseptic technique training
- Expiration settings
- Product quality maintenance (once CSP leaves the pharmacy)

Furthermore, RABS can reduce operating and renovation costs by taking up less space than a traditional cleanroom facility.

Negatively pressured, recirculating SLC-RABS model is suitable for work involving non-volatile hazardous materials,

antineoplastic, or cytotoxic compounding applications. The work zone and pass-through interchange are under negative pressure to the room to maintain operator protection in case of a breach in the system.

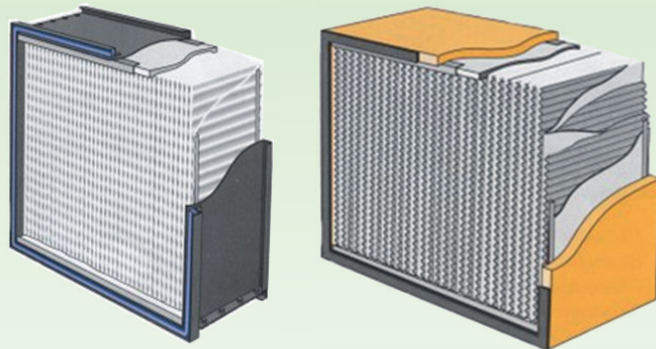
Product Sterility and Integrity

- SLC-RABS combination of downflow and exhaust H14 filters envelopes the main process chamber with ISO Class 5 air; providing operator and/or product protection in all configurations.
- Advanced mini-pleated supply H14 filters are tested to >99.995% at Most Penetrating Particle Size (MPPS) 0.1-0.3 µm, significantly better than conventional filters.
- An improved mini-pleat separation technique maximizes filter surface area, improves efficiency, and extends filter.

- The supply filter provides clean air to the work surface in a gentle vertical laminar flow.
- Laminar airflow within the work zone and pass-through enables recovery of chamber atmosphere to ISO Class 5 conditions within 3 minutes following a worse-case contamination event.
- The entire work zone air is changed 20-30 times per minute.
- Laminar (unidirectional) airflow within work zone and pass-through enables recovery of chamber atmosphere to
- Airlock pass-through ensures work zone sterility during material ingress and egress.



Mini-pleat Separatorless Filter (left) vs. Conventional Aluminum Separator Filter (right)

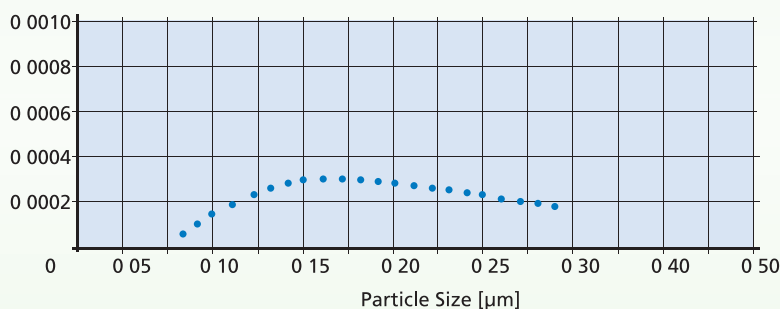


Esco cabinets use Swedish Camfil Farr® mini-pleat filters without aluminum separators to increase filter efficiency, minimize the chance of leakage, and prolong filter life. Filters include a lightweight aluminum frame for structural stability and elimination of swelling common to conventional wood frames.

* United States Pharmacopoeia (USP), Chapter 797(1), presents the first enforceable standards for aseptic compounding. Following years of patient safety recommendations and professional guidelines, the intent of USP 797 is to set forth the procedural and practical requirements for safe compounding of aseptic preparations. The Chapter's requirements are applicable in all practice settings where aseptic preparations are compounded.

Esco Filter Efficiency

(%) Typical Penetration



● Typical Penetration

Esco uses ULPA filters (as per IEST-RP-CC001.3 and HEPA (H14) filter as per EN 1822) with a typical efficiency of >99.995% at 0.3 microns, providing ISO Class 5 air cleanliness as per ISO 14644-1

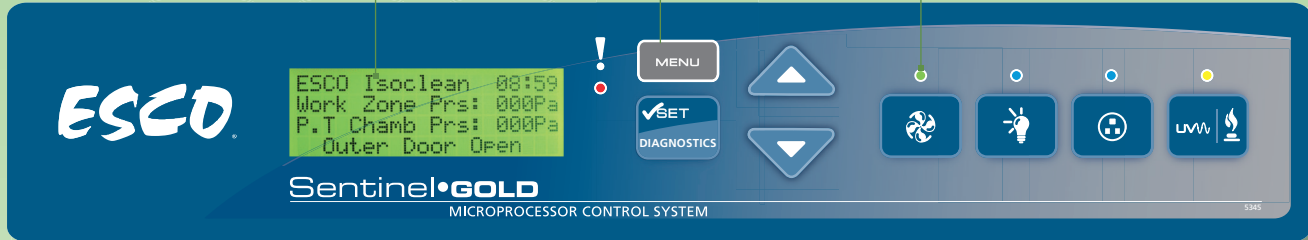
Enlarged, multi-line digital read-out with alpha-numeric display indicates all input, status and alarm functions.

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 LED 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.

- Vertical sliding door between the pass-through and work zone chambers minimizes ingress of particulates during transfer operations as compared with conventional swing door designs.
- Optional sharps disposal system enables smoother work flow and minimizes transfers to enhance patient protection and product sterility. Sharps disposal may be done in the work surface via the disposal bins, thus; minimizing work zone contamination.
- Safe-change cuff rings enable glove change.



The front visor opens up fully for maintenance access into the work zone.

Cabinet Construction Designed for Easy Cleaning

- Robust construction and enhanced safety features qualify the unit for the most demanding laboratory applications. SLC-RABS is fully assembled and ready to install and operate when shipped.
- The cabinet interior is constructed of durable and pharmaceutical-grade 304 stainless steel.
- Single-piece stainless steel work tray is easy to clean. Raised edges on all sides contain spillages.
- Stainless steel drain pan below the work surface contains spills.
- Tray components lift and remove to provide easy access and encourage surface decontamination.
- The cabinet exterior structure is constructed of industrial-grade electro-galvanized steel.
- The downflow HEPA filter is protected by a diffuser which may be cleaned.
- Hinged window may be opened for thorough access into the work zone.

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

Sentinel™ Microprocessor Control, Monitoring System

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

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

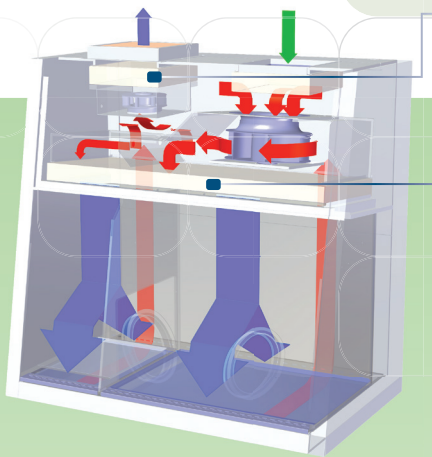
Fan Efficiency

The unit's 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.

Streamline® Closed Restricted Access Barrier System

Streamline® Closed - Restricted Access Barrier System (Recirculating)



Exhaust H14 filter
Supply H14 filter

- HEPA-filtered air
- Unfiltered / potentially contaminated air
- Room air / Inflow air

- Ambient air is pulled through the inlet pre-filter located on top of the SLC-RABS, which traps larger particles and extends the life of the supply HEPA filter. The prefilter traps larger particles and extends 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 and thus, downflow.
- The work zone and pass-through interchange are under negative pressure to the room.
- The HEPA downflow filter creates a laminar and particle-free ISO Class 5 environment to protect the work material inside the main and pass-through.
- Air from the work zone and passthrough is quickly purged by the fans to keep the area clean. The main fan pulls approximately 80% of the purged air back to the plenum and after passing through the HEPA downflow filter again, it is recirculated back to the two chambers. The high rate of airflow recirculation helps to prolong filter life.
- Approximately 20% of the recirculated air is exhausted through a HEPA filter to prevent heat build-up inside the RABS.

	Cabinet Performance	Air Quality	Filtration	Electrical Safety
Standards Compliance	CETA CAG-001-2005, USA CETA CAG-002-2006, USA	Class 5, EU GMP Grade A, Worldwide JIS B9920, Class 5, Japan	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

Safety and Certification

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

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

Warranty

Esco's Streamline® Closed - Restricted Access Barrier System (SLC-RABS) comes with a 1-year warranty excluding consumable parts and accessories. Contact your local sales representative for specific details.

Electrical Outlets and Support Stands

Esco's Streamline® Closed - Restricted Access Barrier System (SLC-RABS) is available as a standard bench top unit. Additional accessories are available for further enhancement.

Electrical Outlets and Utility Fittings:

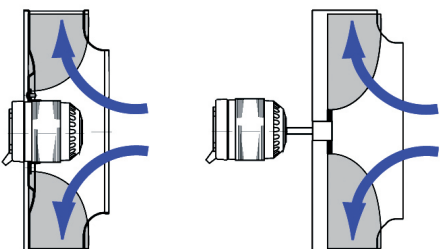
- Electrical outlet, ground fault, North America
- Electrical outlet, Euro/Worldwide

Support Stands:

- Fixed height, available 711 mm (28") or 864 mm (34")
 - With leveling feet, ±38.1 mm (1.5") (SAL-__0)
 - With casters (SPC-__0)

- Telescoping height stand for leveling feet (STL-__0), nominal range 660 mm to 960 mm (26" to 37.8")
- Telescoping height stand for casters (STC-__0), nominal range 660 mm to 880 mm (26" to 34.6")
 - Adjustable in 25.4 mm (1") increments
- Infinitely adjustable hydraulic stand, with casters, elevates to accommodate user preference for sitting or standing work surface height (SHM-_A0)

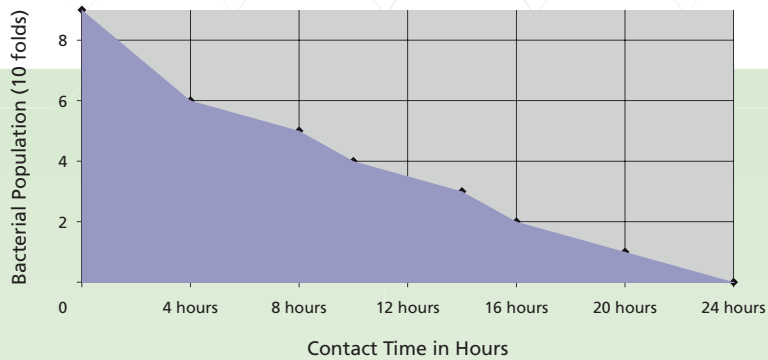
Esco Centrifugal Fan with External Rotor Motor (left) vs. Conventional Fan with Standard Motor (right)



- Esco cabinets use German made **ebm-papst**® permanently lubricated, centrifugal motor/fans with external rotor designs.
- Integrated blades narrow the profile and eliminate need for a motor shaft.
- Motors are selected for energy efficiency, compact design, and flat profile. The completely integrated assembly optimizes motor cooling.
- All rotating parts are unitized and balanced for smooth, quiet, vibration-free operation.



ISOCIDE™ Antimicrobial Powder-Coating



All exterior painted surfaces are powder-coated with Esco Isocide™, an antimicrobial inhibitor to minimize contamination. Isocide™ is integrated into the coating substrate and cannot wash out or diminish by repeated cleaning. Performance results are available upon request. Contact Esco or your Esco Sales Representative for details.

Other Options and Accessories

- Electrical outlets
- UV lamp
- IV bar, with hooks
- Sharps disposal system
- Alarm package
- Exhaust carbon filter
- Exhaust collar
- Perforated shelf to increase work zonespace
- Solenoid valve
- Manual volumetric damper
- Service fixture
 - European style
 - American style

Validated Performance

- A factory testing report is conducted on the Esco Streamline® Closed-Restricted Access Barrier System for top-notch performance and reliability.
- Filter Leak Tests verify the integrity of the HEPA filters as-installed.
- Downflow Velocity Tests verify adequate laminar air flow velocities and air change rates in the two chambers.
- Dynamic Pressure Test determines if main and pass-through chambers pressures are adequate to aid in providing separation between the work zone and the ambient environment. Glove-pulls are simulated to ensure

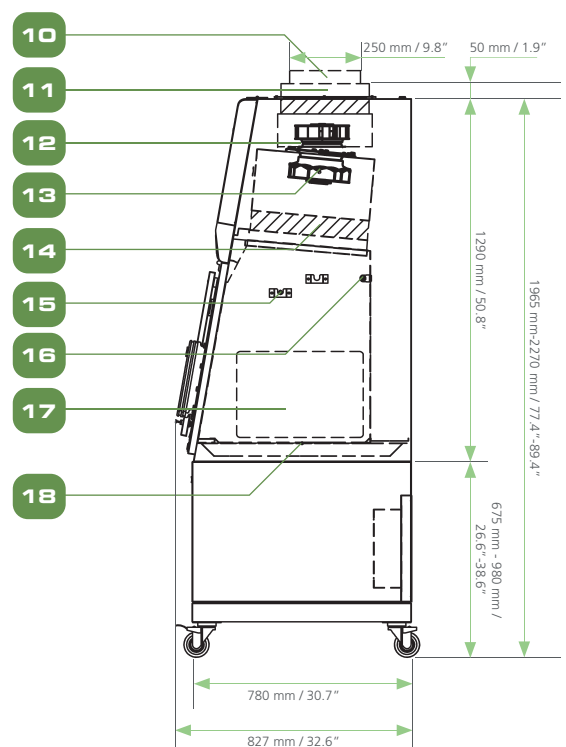
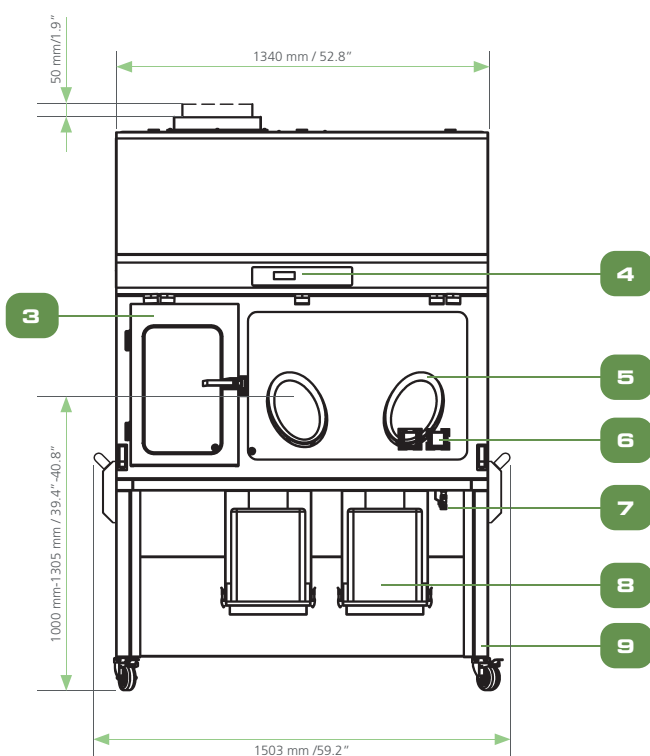
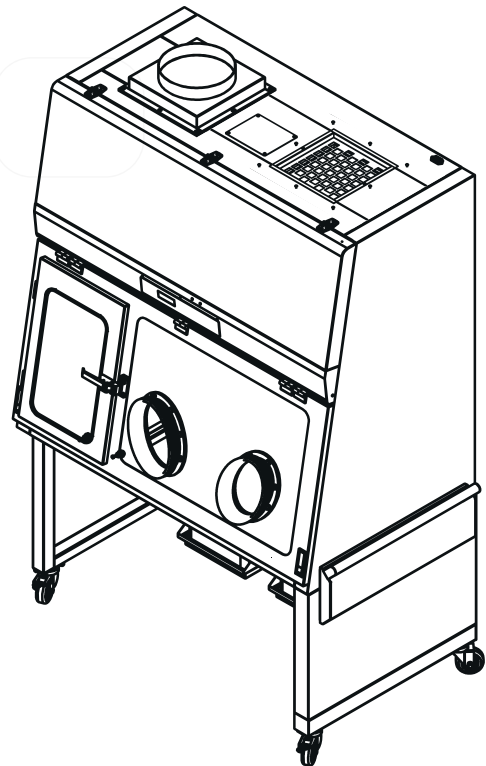
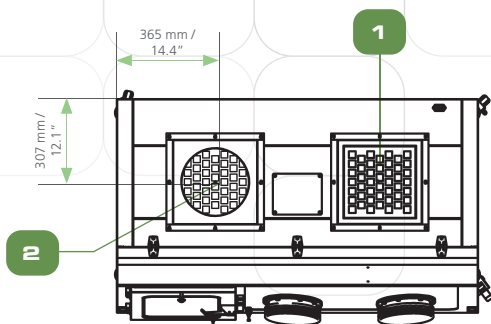
differential pressure is maintained during actual operation.

- Particle Counts (Air Cleanliness Tests) verify air cleanliness in accordance with ISO 14644-1 criteria for both the main chamber and pass-through.
- Product Ingress and Egress Tests determine if the work zone can maintain ISO Class 5, during material transfers without the need to wait for purging time during the transfer process, when used outside an ISO Class 7 cleanroom (USP <797>).

- Recovery Time Test determines the amount of time the main chamber takes to recover to ISO Class 5 after an event such as a full window opening or large scale contamination.
- Gauntlet Breach Test determines product protection in case of a glove failure.
- Operator Comfort Tests include noise, light, and vibration.

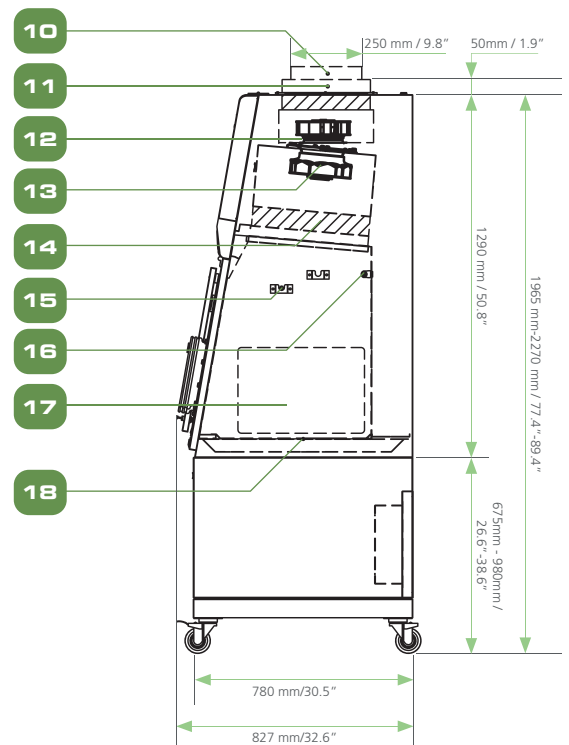
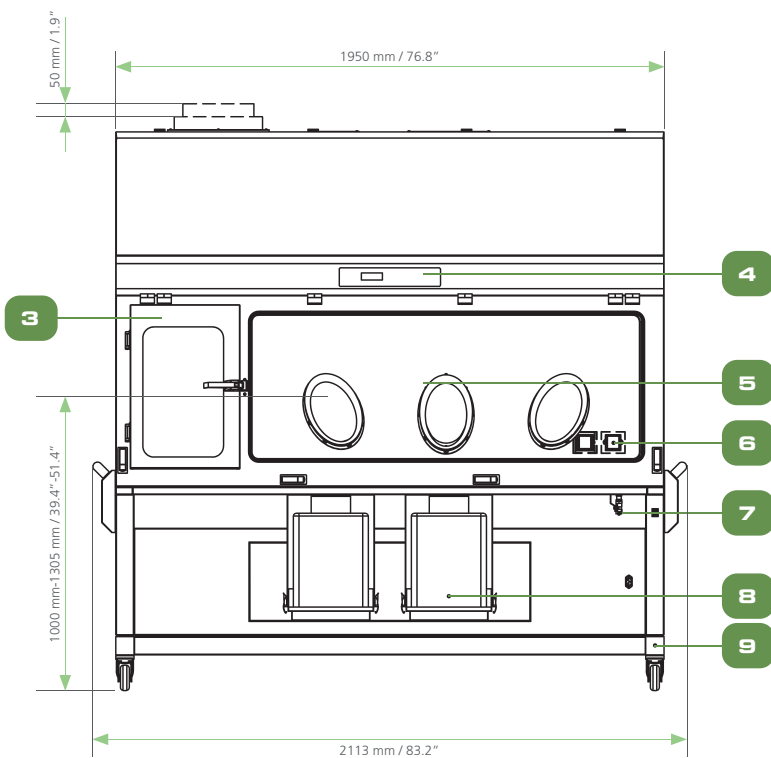
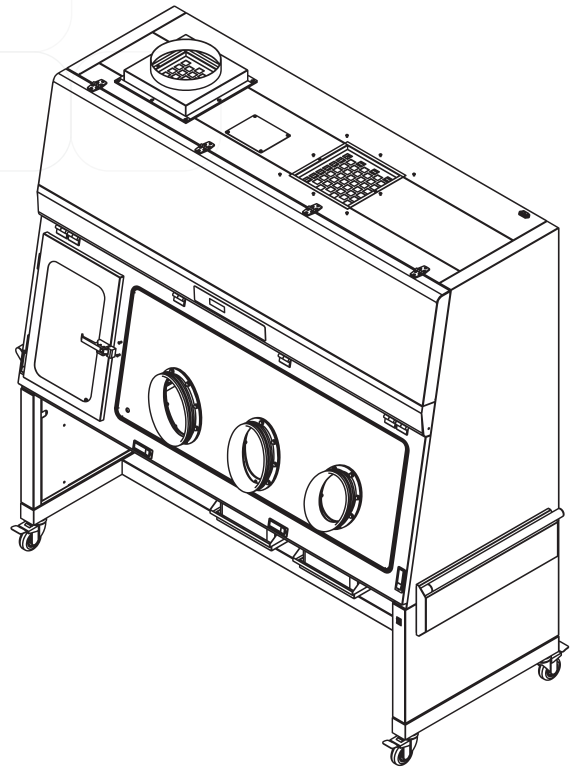
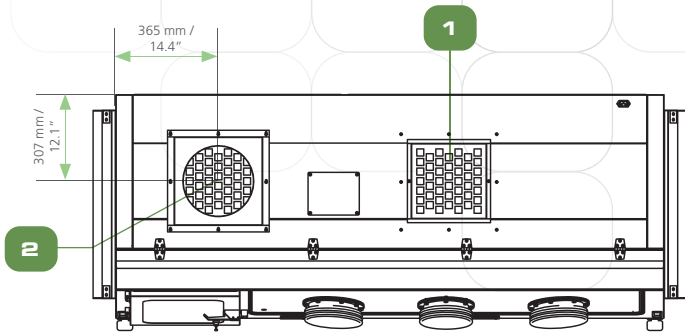


Model SLC-RABS, Closed - Restricted Access Barrier System (Recirculating) Technical Specifications



Model SLC-RABS-4_ _ _ (2 Gloves)

- | | | |
|--|--------------------------------------|--|
| 1. Air Inlet Filter, HEPA H14 Filter | 7. Drain Valve | 13. Supply Fan |
| 2. Air Exhaust Filter, HEPA H14 Filter | 8. Sharp Disposal Container | 14. Supply Filter, HEPA H14 Filter |
| 3. Pass Thru, Hinged Outer Door | 9. Support Stand, SHM-4A1 (Optional) | 15. IV Bar Mounts |
| 4. Esco Sentinel Microprocessor Control System | 10. Exhaust Collar (Optional) | 16. UV Lamp (Optional) |
| 5. Oval Glove Ports | 11. Carbon Filter (Optional) | 17. Pass Thru Inner Door, Vertical Sliding |
| 6. Electrical Outlet Retrofit Provision | 12. Exhaust Fan | 18. Workzone Tray |



Model SLC-RABS-6_ _ _ (3 Gloves)

- | | | |
|--|--------------------------------------|--|
| 1. Air Inlet Filter, HEPA H14 Filter | 7. Drain Valve | 13. Supply Fan |
| 2. Air Exhaust Filter, HEPA H14 Filter | 8. Sharp Disposal Container | 14. Supply Filter, HEPA H14 Filter |
| 3. Pass Thru, Hinged Outer Door | 9. Support Stand, SHM-6A1 (Optional) | 15. IV Bar Mounts |
| 4. Esco Sentinel Microprocessor Control System | 10. Exhaust Collar (Optional) | 16. UV Lamp (Optional) |
| 5. Oval Glove Ports | 11. Carbon Filter (Optional) | 17. Pass Thru Inner Door, Vertical Sliding |
| 6. Electrical Outlet Retrofit Provision | 12. Exhaust Fan | 18. Workzone Tray |

Streamline® Closed Restricted Access Barrier System

GENERAL SPECIFICATIONS

Closed - Restricted Access Barrier System (Recirculating)

		SLC-RABS-4_N_--	SLC-RABS-4_P_--	SLC-RABS-6_N_--	SLC-RABS-6_P_--
Nominal Size		1.2 meters (4')		1.8 meters (6')	
External Dimensions (W x D x H)	Without Base Stand*	1340 x 827 x 1290 mm (52.8" x 32.6" x 50.8")		1950 x 827 x 1290 mm (76.8" x 32.6" x 50.8")	
	With Base Stand (Min)	1503 x 827 x 1965 mm (59.2" x 32.6" x 77.4")		2113 x 827 x 1965 mm (83.2" x 32.6" x 77.4")	
	With Base Stand (Max)	1503 x 827 x 2270 mm (59.2" x 32.6" x 89.4")		2113 x 827 x 2270 mm (83.2" x 32.6" x 89.4")	
Main Chamber Work Zone (W x D x H)		840 x 610 x 670 mm (33.1" x 24.0" x 26.4")		1450 x 610 x 670 mm (57.1" x 24.0" x 26.4")	
Pass Through (W x D x H)		355 x 610 x 670 mm (13.9" x 24.0" x 26.4")		355 x 610 x 670 mm (13.9" x 24.0" x 26.4")	
Work Zone and Interchange Chamber Performance		ISO Class 5 (as per ISO 14644-1)			
Inlet Filter Type		80% efficient pre-filters			
Downflow and Exhaust Filter Type		ULPA filters (as per IEST-RP-CC001.3 and HEPA (H14) filter as per EN 1822)			
Typical Filter Efficiency		>99.995% for particle size between 0.1 to 0.2 micron			
LED Lamp Intensity		> 800 Lux (74.32 foot candles)			
RABS Construction	Main Body	1.2 mm (0.05") 18 gauge electro-galvanized steel with white oven-baked epoxy-polyester antimicrobial powder-coated finish			
	Work Tray	1.5 mm (0.06") 16 gauge stainless steel, type 304, with 4B finish			
Electrical**	240-220V, AC, 50Hz, 1Ø	SLC-RABS-4_N1_	SLC-RABS-4_P1_	SLC-RABS-6_N1_	SLC-RABS-6_P1_
	Cabinet Full Load Amps (FLA)	2.1 A	2 A	2.5 A	2 A
	Optional Outlets FLA	5 A	5 A	5 A	5 A
	Cabinet Nominal Power	295 W	301 W	440 W	345 W
	Cabinet BTU	1007	1027	1501	1177
	120-110V, AC, 60Hz, 1Ø	SLC-RABS-4_N2_	SLC-RABS-4_P2_	SLC-RABS-6_N2_	SLC-RABS-6_P2_
	Cabinet Full Load Amps (FLA)	6 A	4 A	8.2 A	7 A
	Optional Outlets FLA	5 A	5 A	5 A	5 A
	Cabinet Nominal Power	410 W	264 W	600 W	456 W
	Cabinet BTU	1399	901	2047	1556
	240-220V, AC, 60Hz, 1Ø	SLC-RABS-4_N3_	SLC-RABS-4_P3_	SLC-RABS-6_N3_	SLC-RABS-6_P3_
	Cabinet Full Load Amps (FLA)	2.1 A	2 A	2.5 A	2 A
	Optional Outlets FLA	5 A	5 A	5 A	5 A
	Cabinet Nominal Power	295 W	301 W	440 W	345 W
	Cabinet BTU	1007	1027	1501	1177
	Shipping Dimensions, Maximum (W x D x H)		1590 x 990 x 2210 mm (62.6" x 39.0" x 87.0")		2150 x 950 x 2210 mm (84.6" x 37.4" x 87.0")
Shipping Volume, Maximum*		3.48 m ³ (122.9 cu.ft)		4.51 m ³ (159.3 cu.ft)	

* SLC-RABS only; excludes optional stand.

** Cabinet and GFCI outlet operate on a single power cord.

Note: - If unit comes with exhaust collar, add 100mm height
- If unit comes with carbon filter, add 50mm height

Airflow Volume of Negative Pressure SLC-RABS (Recirculating)

	SLC-RABS-4_N_--	SLC-RABS-6_N_--
Required Exhaust with Optional Hard Ducting	190 m ³ /h (112 cfm)	286 m ³ /h (168 cfm)
Static Pressure for Optional Hard Ducting	27 Pa/0.10 in H ₂ O	30 Pa/0.12 in H ₂ O

** If ordering RABS with sharps provisions, order the following to complete the selection.
Only 2 sharps containers can be mounted per unit.

Sharps Disposal Containers

5170224	Sharps Disposal Container Complete With Mounting Base - 5.0qt (10.5" x 7.5" x 18")
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Contact Esco Sales Representative for more information.

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 the outer ring.



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. Install the ring up to the middle groove.



7. Carefully loosen the old glove from the outer 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.

ESCO LIFESCIENCES GROUP NETWORK

42 Locations in 21 Countries All Over the World



- Air Shower
- Aseptic Containment Isolator (ACTI)
- Ceiling Laminar Airflow Units
- Cleanroom Transfer Hatch
- Containment Barrier Isolator (CBI)
- Downflow Booth (DFB)
- Dynamic Floor Laminar Hatch
- Dynamic Pass Box
- Evidence Drying Cabinet
- Garment Storage Cabinet
- General Processing Platform Isolator (GPPI)
- Laminar Flow Horizontal Trolley
- Laminar Flow Straddle Units, Single and Double
- Laminar Flow Vertical Trolley
- Pass Box
- Soft Wall Cleanroom
- Sputum Booth
- Ventilated Balance Enclosure (VBE)
- Weighing and Dispensing Containment Isolator (WDCI)

Since 1978, Esco has emerged as a leader in the development of controlled environment, laboratory and pharmaceutical equipment solutions. Products sold in more than 100 countries include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow clean benches, animal containment workstations, cytotoxic cabinets, hospital pharmacy isolators, and PCR cabinets and instrumentation. With the most extensive product line in the industry, Esco has passed more tests, in more languages, for more certifications, throughout more countries than any biosafety cabinet manufacturer in the world. Esco remains dedicated to delivering innovative solutions for the clinical, life science, research and industrial laboratory community. www.escolifesciences.com

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