

Esco Airflow Cabinet Selection Guide



Application	Classification and Feature	A Allergen	B Biohazard	rotection Again: C Chemical Vapor	D Drugs (Hazardous)	E Environmental Contaminants	Model	lmage	Description
A Animal Handling Animal procedure, Anesthesia, Cage transfer, Bedding disposal, Necropsy. Can accommodate trace amount of non-corrosive, non- flammable chemicals with exhaust collar, heating is NOT allowed.	Single-Sided Animal Procedure, Class II A2 Biosafety	✓	✓	Add Exhaust Collar	Add Exhaust Collar	1	VA2 G4		If using Isoflurane gas, add exhaust collar and gas scavenger unit. Use SLC stand to move under 80" doors. Necropsy variant with sink is available.
	2 Double-Sided Animal Transfer	✓				✓	VDA		Comes with auto-lift to slide under 80" doors at min height. Quietest dual-sided animal workstation in the market. ELISA- tested allergen containment.
	3 Bedding Disposal	✓				✓	VBD		Comes with removable 40 gal waste disposal bin and auto-lift to slide under 80" doors at min height. ELISA-tested allergen containment.
B Biological Samples Handling COVID-19, Gene and Cell therapy, Mammalian cell culture, Cancer and Pharma research Can accommodate trace amount of non-corrosive, non- flammable chemicals with exhaust collar, heating is NOT allowed.	1 Compact-sized, Class II A2		✓	Add Exhaust Collar	Add Exhaust Collar	✓	AC2-NS G4	and the second s	Energy and space-efficient. Lowest BSC in the market at 55" height. Add exhaust collar when working with naturally evaporating chemicals.
	Full-sized, Class II A2		✓	Add Exhaust Collar	Add Exhaust Collar	✓	LA2 G4		Ultimate safety and comfort. Add exhaust collar when working with naturally evaporating chemicals.
	Machine Enclosure, Class II A2		✓	Add Exhaust Collar	Add Exhaust Collar	✓	AC2 - Large		25" usable depth and 36" interior height. Add exhaust collar for naturally evaporating chemicals. Use folding window for > 20" larger front opening.
	Room-sized 4 Enclosure, Class II A2		✓	Add Exhaust Collar	Add Exhaust Collar	✓	BioBooth		58" W x 34" D x 62" H workzone. Customizable to larger size. Add exhaust collar when working with naturally evaporating chemicals.
	Total Exhaust, for Continuous Chemical Injection, Class II B2		✓	1	√	1	LB2 G4		Has built-in exhaust collar. Can be used for small amount of non- corrosive, flammable chemicals because vapor won't touch internal fan.
Chemical Handling (Ducted) General chemistry, Acid digestion chemistry, Radioisotope chemistry Can accommodate wide-range of chemicals that include corrosive and flammable chemicals, heating is allowed.	1 General Purpose Fume Hood			✓			EFA		Fiberglass-Reinforced Plastic Interior and Epoxy Resin Table. Suitable for a wide range of chemicals in larger amounts.
	Acid Digestion Fume Hood			√			EFQ	000	Polypropylene or u-PVC liner and work zone, ideal for acid digestion and handling wide range of chemicals in large volumes.
	Radioisotope Fume Hood			✓			EFI		Stainless Steel 304 or 316 interior and table. Can be customized to accommodate lead-shields for radioisotope handling.

IN THE LOOP **Esco Airflow Cabinet Selection Guide**



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C Chemical Handling (Ductless) General chemistry, Portable chemical hood, Clean room chemical hood For limited-range of chemicals per selected carbon filter, heating is NOT allowed.	Single-Layer Carbon Filter (Limited range of chemicals)			✓			ADC-B		Choose 1 from 8 different types of carbon filter. Suitable only for limited range of chemicals per selected carbon filter.	
	Double-Layer Carbon Filter (Wide range of chemicals)			1			ADC-C		Choose 2 from 8 different types of carbon filter. Suitable only for limited range of chemicals per selected carbon filter.	
	Single-Layer Carbon + HEPA Filter (Chemical vapor and particulates)			1			ADC-E		Choose 1 from 8 carbon filters. Limited range of chemicals per selected filter. Suitable for clean room, as HEPA filter captures the carbon particles.	
Compounding Pharmacy Chemo drugs compounding, Epidural anesthetic injection Can accommodate trace amount of non-corrosive, non-flammable chemicals with exhaust collar, heating is NOT allowed.	Non-Hazardous, Sterile, USP <797>					✓	LHG, LHS		LHG: Glass side walls, to put camera outside the cabinet LHS: Stainless steel side walls, easier to clean Use STC stand with casters	
	2 Hazardous, Non-Sterile				√		PW1, ADC-F		PW1: single HEPA + collar ADC-F: double HEPA	
	Hazardous, Sterile, USP <800>		√	Add Exhaust Collar	Add Exhaust Collar	✓	AC2-NS G4		Add exhaust collar to comply with USP <800>. Only for naturally evaporating chemicals. Short 55" height for cleanrooms & mobile labs.	
D DNA Amplification COVID-19 (Master Mix Preparation), Reverse Transcript Using PCR method	1 PCR Cabinet					V	PCR		Comes with UV lamp, foldable front cover, blower, and HEPA filter. Has lower airflow at 60 fpm instead of 90 fpm for Laminar Flow Cabinets.	
E Electronics / Plant Tissue Culture Electronics assembly, Plant tissue culture and research, Optic lens inspection. Provides product protection, no operator protection	Small Electronics, Plant Tissue Culture: use Horizontal Laminar Flow Cabinet					1	LHG, LHS		LHG: Glass side walls, to put camera outside the cabinet LHS: Stainless steel side walls, easier to clean Use STC stand with casters	
	Larger Electronics, Agar Plate Preparation: use Vertical Laminar Flow Cabinet					✓	LVG, LVS		LVG: Glass side walls, more comfortable from claustrophobia LVS: Stainless steel side walls, easier to clean, better for ESD Add Ion Bar for ESD application	
	Optics Inspection: use Vertical Laminar Flow Cabinet with Black Interior					✓	LVS - Black		Black interior walls and work surface for optical instrument inspection.	













