

Frontier•EDUSAFE®



Esco Frontier Edusafe Fume Hood,
Model EFU-4A_

Frontier Edusafe Fume Hoods

Introduction

The Esco Frontier Edusafe Fume Hood offers a solution for schools and training/educational institutions - providing superior containment of noxious chemical fumes at a broad range of face velocities while allowing 360° visibility with 4 transparent sides. Students and trainees no longer have to crowd in front of conventional fume hoods to observe demonstrations.

Superstructure

- Partial dual-wall construction allows service fixture remote controls and electrical outlets to be mounted outside the work zone within easy reach.
- Main body fabricated of electrogalvanized steel (zinc coated to prevent rusting even if the powder coat is abraded, and phosphated for better adhesion of the powder coating).
- Epoxy-polyester hybrid Isocide™ antimicrobial powder coating provides long term chemical, abrasion and weathering resistance.
- Unique design incorporates tempered safety glass panels mounted on all 4 sides (including the front sash), making this product tailor-made for conducting demonstrations. It also facilitates total visibility of entire laboratory from any location.
- State-of-the-art baffle system constructed of tempered safety glass enables full visibility as well as delivers maximum containment by ensuring airflow uniformity throughout the main chamber.
- Corrosion-resistant epoxy powder coated electrogalvanized steel airfoil safely ventilates fumes generated towards the front of the hood for superior operator protection.
- Standard vertical rising fail safe counterbalanced sash constructed of tempered safety glass enables full access to the hood.

- Dished work top provides spill retention and is constructed of phenolic resin, a highly corrosion-resistant material.
- 1 remote-control gas fixture and 1 remote-control water fixture (with high quality PP drip cup) are provided with every hood. Additional services can be ordered separately.
- 2 electrical outlets are provided with every hood (total rating 5A). Additional outlets can be ordered separately (specify amps required).



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Aesthetics and Ergonomics Design

- Perfect Pitch Profile - The gentle 5° pitch of the hood enhances visibility and enables users to work further into the hood without strain.
- The angled front is also an aesthetic feature that positions your laboratory for the 21st century.
- Neutral color scheme (white with blue accents) blends the hood with any casework, metal or wood.
- Hood lighting is pre-wired. Lighting is electronically ballasted, energy efficient, instant start. Typical light intensity at work surface is >780 lux (>72 foot candles) in zero ambient conditions.
- Color temperature is tuned to provide a gentle, bright (but not harsh) and comfortable work environment for the user.

Serviceability

- Removable front panel enables easy access to lighting and other electrical components mounted above the hood work chamber.

Safety Certified and Tested

All Esco fume hoods are manufactured for the most demanding laboratory applications.

- Factory-tested in Esco's world-class fume hood test facility to meet the requirements of the ANS/ASHRAE 110-1995 and EN14175-3 Standards.
- Hoods are ASHRAE tested on the production line on a sampling basis (industry exclusive).
- Sash is clearly labeled with all operating instructions and illustrations.

Accessories and Options

- Esco offers a variety of options and accessories to meet application requirements.
- Additional services and electrical outlets.
- Base cabinetry is available for worktop requirements and additional storage area in the laboratory.

Warranty

All Esco Frontier Edusafe Fume Hoods (EFU) come with an extended 1 year warranty, excluding consumable parts and accessories. Contact your local representative for specific warranty details.



Side-mounted service fixture outlets are conveniently positioned for easy access.

General Specifications, Frontier Edusafe Fume Hoods

Note to customer: Insert electrical voltage number into last model number digit _ when ordering.

Model	EFU-4A_	EFU-5A_	EFU-6A_	
External Dimensions (W x D x H)	1220 x 790 x 1516 mm 48.0" x 31.1" x 59.7"	1525 x 790 x 1516 mm 60.0" x 31.1" x 59.7"	1830 x 790 x 1516 mm 72.0" x 31.1" x 59.7"	
Internal Dimensions (W x D x H)	1019 x 556 x 1346 mm 40.1" x 21.9" x 53.0"	1324 x 556 x 1346 mm 52.0" x 21.9" x 53.0"	1629 x 556 x 1346 mm 64.0" x 21.9" x 53.0"	
Maximum Sash Opening	600 mm (23.6")			
Exhaust Volume/ Static Pressure Required Face Velocity of 0.5m/s (100 fpm) at Full Open Sash	1096 cmh @ 63 Pa 645 cfm @ 0.25" WG	1425 cmh @ 78 Pa 839 cfm @ 0.31" WG	1755 cmh @ 90 Pa 1033 cfm @ 0.36" WG	
Exhaust Outlet Diameter	250 mm (9.8")			
Number of Exhaust Collars	1			
Fluorescent Lamp Intensity	780 Lux (72 foot candles)			
Construction	Main Body	Oven-baked epoxy powder-coated EG steel		
	Internal Liner and Baffle System	Esco Resinate phenolic resin laminates		
	Front Window/ Side Wall	Tempered glass		
Electrical	220-240V, AC, 50HZ, 1Ø	EFU-4A1	EFU-5A1	EFU-6A1
	Cabinet Full Load Amps (FLA)	10 A	10 A	10 A
	Cabinet BTU*	205	341	341
	110-120V, AC, 60HZ, 1Ø	EFU-4A2	EFU-5A2	EFU-6A2
	Cabinet Full Load Amps (FLA)	10 A	10 A	10 A
	Cabinet BTU*	205	341	341
	220-240V, AC, 60HZ, 1Ø	EFU-4A3	EFU-5A3	EFU-6A3
	Cabinet Full Load Amps (FLA)	10 A	10 A	10 A
Cabinet BTU*	205	341	341	
Net Weight	143 kg (315 lbs)	167 kg (368 lbs)	196 kg (432 lbs)	
Shipping Weight	207 kg (456 lbs)	238 kg (525 lbs)	272 kg (599 lbs)	
Shipping Dimensions, Maximum (W x D x H)	1300 x 950 x 1940 mm 51.2" x 37.4" x 76.4"	1600 x 950 x 1940 mm 63.0" x 37.4" x 76.4"	1950 x 950 x 1940 mm 76.8" x 37.4" x 76.4"	

* Cabinet BTU = Cabinet nominal power x 3.41214

General Specifications, Base Cabinet for Frontier Edusafe Fume Hoods

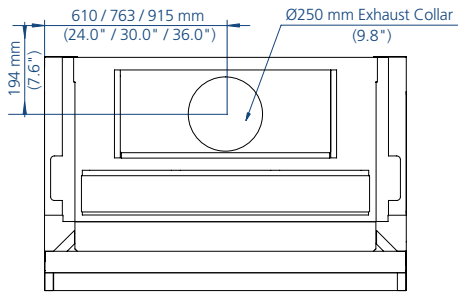
Model	EBU-4A0	EBU-5A0	EBU-6A0
Nominal size	1.2 meters (4')	1.5 meters (5')	1.8 meters (6')
External Dimensions (W x D x H)	1220 x 668 x 886 mm 48.0" x 26.3" x 34.9"	1525 x 668 x 886 mm 60.0" x 26.3" x 34.9"	1830 x 668 x 886 mm 72.0" x 26.3" x 34.9"
Net Weight	83 kg (183 lbs)	115 kg (253 lbs)	160 kg (353 lbs)
Shipping Weight	111 kg (245 lbs)	147 kg (324 lbs)	209 kg (461 lbs)
Shipping Dimensions, Maximum (W x D x H)	1300 x 950 x 1150 mm 51.2" x 37.4" x 45.2"	1600 x 950 x 1150 mm 63.0" x 37.4" x 45.2"	1950 x 950 x 1150 mm 76.8" x 37.4" x 45.2"

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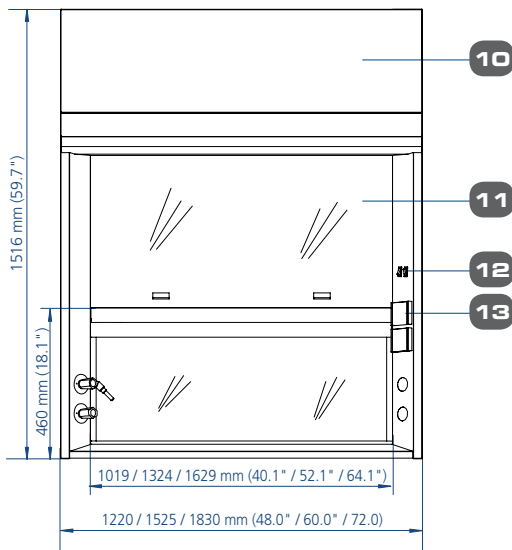
Fume Hood • Frontier Edusafe Fume Hood

Model EFU, Frontier Edusafe Fume Hood Technical Specifications

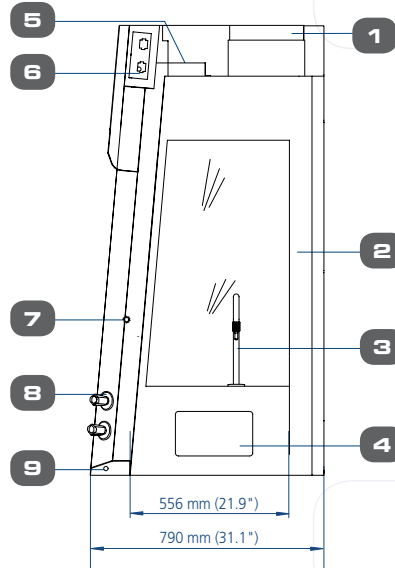
Top View



Front View



Side View

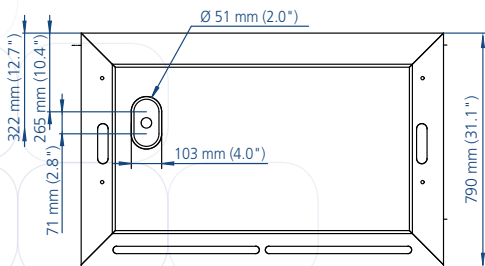


1. Tapered exhaust collar
2. Glass baffle
3. Service fixtures
4. Access panel
5. Fluorescent lights
6. Electrical box
7. Sash stop mechanism at 18" height
8. Service fixtures remote control
9. Ergonomical airfoil
10. Removable front panel
11. Sliding sash
12. Switch control
13. Electrical outlet

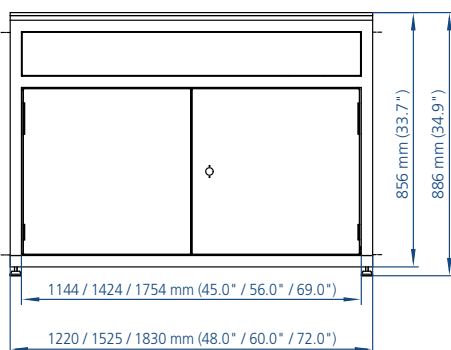
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Model EBU, Base Cabinet for Frontier Edusafe Fume Hood Technical Specifications

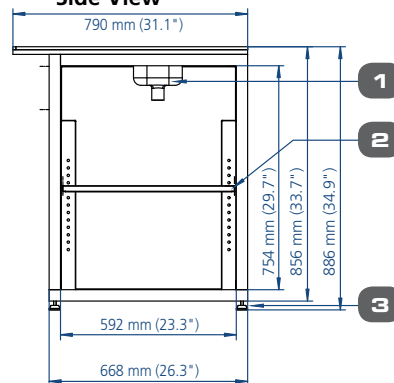
Top View



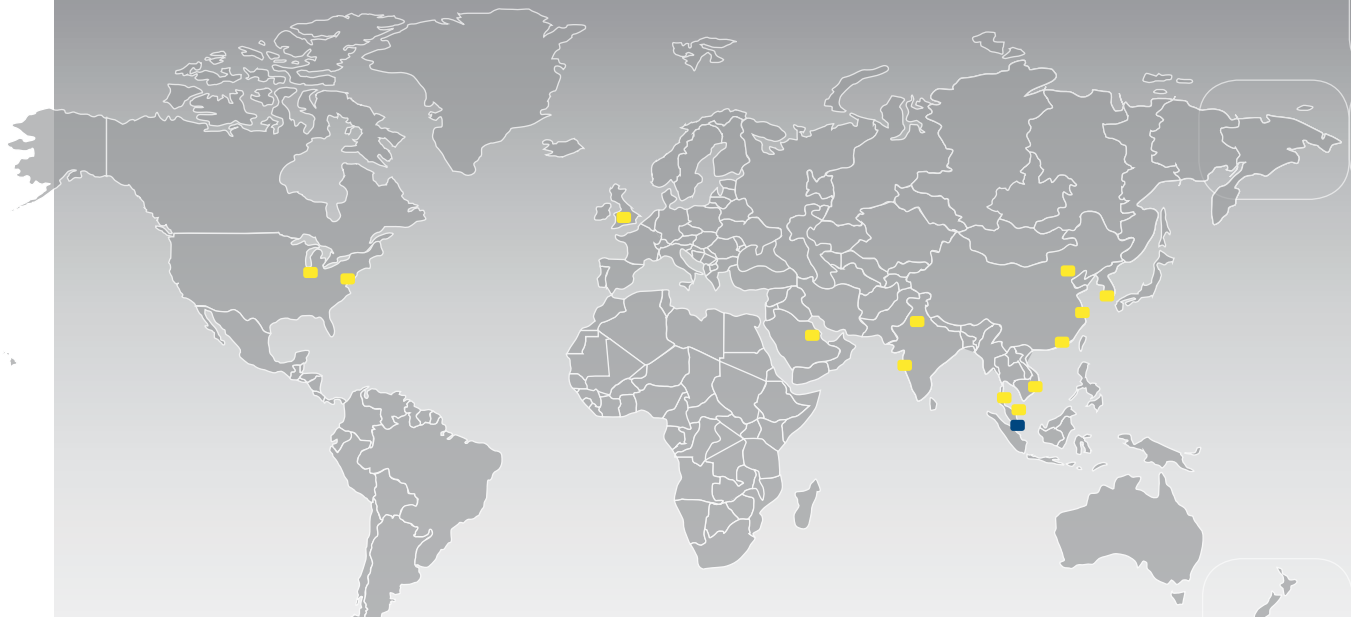
Front View



Side View



1. Sink
2. Adjustable shelf
3. Leveling feet



- Biological Safety Cabinets
- Cleanroom Products
- Compounding Pharmacy Equipment
- Containment / Pharma Products
- CO₂ Incubators
- Ductless Fume Hoods
- In-Vitro Fertilization Workstations
- Lab Animal Research Products
- Laboratory Fume Hoods
- Laboratory Ovens and Incubators
- Laminar Flow Clean Benches
- PCR Products
- Ultralow Freezers

Since 1978, Esco has emerged as a leader in the development of controlled environment, laboratory and cleanroom 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.escoglobal.com.

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