Accessories and Other Options:

Base Cabinets

EBC Base Cabinet for Frontier® Mono™

Has built-in dished black phenolic resin laminate tabletop, four electrical socket outlets and polypropylene drip cup.

Model	EBC-4A0 2090049	EBC-5A0 2090053	EBC-6A0 2090522
Nominal Size	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')
External Dimensions	1200 x 850 x 886 mm (47.2" x 33.5" x 34.9")	1500 x 850 x 886 mm (59.0" x 33.5" x 34.9")	1800 x 850 x 886 mm (70.9" x 33.5" x 34.9")

EBD Base Cabinet for Frontier® Duo™

This base cabinet perfectly combines with your Frontier® Duo™ Fume Hood as an added storage area for your chemicals and reagents. It is made of electrogalvanized steel coated with Isocide™ powder for maximum corrosion resistance.

Model	EBD-4A0 2090044	EBD-5A0 2090045	EBD-6A0 2090046	EBD-8A0 2090048
Nominal Size	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions	1200 x 770 x 860 mm (47.2" x 30.3" x 33.9")	1500 x 770 x 860 mm (59.0" x 30.3" x 33.9")	1800 x 770 x 860 mm (70.9" x 30.3" x 33.9")	2400 x 770 x 860 mm (94.5" x 30.3" x 33.9")

EBF Base Cabinet for Frontier® Floor Mounted Fume Hood™

A removable low-height base cabinet with phenolic worktop can be added for a dual function feature. With the added base cabinet, the Frontier® Floor-Mounted™ fume hood can be reconfigured as a distillation fume hood with greater interior height for use of larger apparatus.

Model	EBF-4UDG-0 2090645	EBF-5UDG-0 2090646	EBF-6UDG-0 2090647	EBF-8UDG-0 2090648
Nominal Size	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions	1220 x 600 x 457 mm (48.0" x 23.6" x 18.0")	1525 x 600 x 457 mm (60.0" x 23.6" x 18.0")	1830 x 600 x 457 mm (72.0" x 23.6" x 18.0")	2440 x 600 x 457 mm (96.1" x 23.6" x 18.0")

EBA Base Cabinet for Frontier® Acela™, Acid Digestion™, Perchloric Acid™, and Radioisotope™

Fabricated with electro-galvanized steel with hybrid Isocide™ powder coating for long term chemical, abrasion and weathering resistance.

Model	EBA-4UDG-0 2090153	EBA-5UDG-0 2090157	EBA-6UDG-0 2090161	EBA-8UDG-0 2090163
	EBA-4UDG-8 2090154	EBA-5UDG-8 2090158	EBA-6UDG-8 2090162	EBA-8UDG-8 2090167
Nominal Size	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions	1220 x 849 x 915 mm (48.0" x 33.4" x 36.0")	1525 x 849 x 915 mm (60.0" x 33.4" x 36.0")	1830 x 849 x 915 mm (72.0" x 33.4" x 36.0")	2440 x 849 x 915 mm (96.1" x 33.4" x 36.0")

**Model EBA-__DG-0 is standard base cabinet without MCB/ELCB*
Model EBA-__DG-8 is with MCB/ELCB protection and only applicable for 230 VAC, 50/60 Hz units. MCB/ELCB panel is always mounted on the top right hand corner of base cabinet set.

EBA Base Cabinet for Frontier® Acela™ M Series Fume Hood

Model	EBA-4UMG-0 2090600	EBA-5UMG-0 2090601	EBA-6UMG-0 2090602	EBA-8UMG-0 2090603
	EBA-4UMG-8 2090604	EBA-5UMG-8 2090605	EBA-6UMG-8 2090606	EBA-8UMG-8 2090607
Nominal Size	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions	1220 x 949 x 915 mm (48.0" x 37.4" x 36.0")	1525 x 949 x 915 mm (60.0" x 37.4" x 36.0")	1830 x 949 x 915 mm (72.0" x 37.4" x 36.0")	2440 x 949 x 915 mm (96.1" x 37.4" x 36.0")

Additional accessories for your EBA cabinet:

Ventilation Kit (VK-EBA)
- Ventilates base cabinet utilizing the hood exhaust system.
- Field-installed

MCB
- Protects laboratory equipment during sudden fluctuation of current. This is only applicable to countries with 230 VAC, 50/60 Hz power requirement. This is factory-installed; specify when ordering.

Filler Panel (FP-EBAD)
- Used to increase the depth of the base cabinet to enclose pipings and utilities.
- One set of filler panels required per continuous row of hoods.

EBP Base cabinet for Frontier® PPH™ Fume Hood

Full polypropylene base cabinet.

Model	EBP-4UDP-0 2090587	EBP-5UDP-0 2090588	EBP-6UDP-0 2090589	EBP-8UDP-0 2090649
Nominal Size	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions	1200 x 880 x 830 mm (47.2" x 34.6" x 36.7")	1500 x 880 x 830 mm (59.1" x 34.6" x 36.7")	1800 x 880 x 830 mm (70.9" x 34.6" x 36.7")	2400 x 880 x 830 mm (94.5" x 34.6" x 36.7")

Support Stand with levelling feet for Frontier® Acela™, Acid Digestion™, Perchloric Acid™, Radioisotope™ and Acela™ M Series Fume Hood

Model	ASL-4	ASL-5	ASL-6	ASL-8
Nominal Size	1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')
External Dimensions	1220 x 850 x 904 mm (48.0 x 33.5 x 35.6")	1525 x 850 x 904 mm (60.0 x 33.5 x 35.6")	1830 x 850 x 904 mm (72.0 x 33.5 x 35.6")	2440 x 850 x 904 mm (96.0 x 33.5 x 35.6")

Worktops

Esco offers seven (7) types of fume hood work surfaces for different applications. Table below compares the difference of each worktop in terms of chemical resistance, temperature resistance and cost.

Type	SS304	SS316	Trespa TopLab Plus Phenolic Resin	Epoxy	u-PVC	PP	Ceramic
Chemical Resistance	Good	Better	Better	Better	Best except for some solvents	Best	Best
Temperature Resistance	Better (300°C)	Better (300°C)	Good (110°C)	Good (165°C)	Good (90°C)	Good (130°C)	Best (1200°C)
Cost	Low Price	Mid Price	Md Price	Mid Price	Mid-Price	Mid-Price	Premium

The table below summarizes the different options for your fume hood's worktop. Please specify choice upon ordering since this is factory-installed.

Fume Hood	Trespa Toplab Plus Phenolic Resin	u-PVC	PP	Epoxy	Ceramic	SS304	SS316
Mono™	Default (for base cabinet)						
Duo™	Default			✓			
Acela™	Default				✓	✓	✓
Acid Digestion™		Default	Default				
Perchloric™			✓			Default	✓
Radioisotope™						Default	✓
Acela™ M Series					Default		
Floor Mounted™	Default (for base cabinet)						
PPH™			Default				

Default – built-in, factory-specified worktop

✓ *- option for upgrade; must be specified upon ordering.*

Accessories and Other Options:

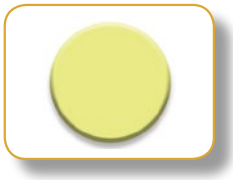
Enhanz™ Service Fixtures

Service fixtures provide a convenient supply of Gas, Vacuum, Air and Water within the working area of compatible Esco products, with American connection and European standard petcocks and fittings. European style fixtures are manufactured according to DIN 12898, DIN 12919 and DIN 3537. European style fixtures have a chemically resistant powder coated finish while American fixtures have an attractive chrome plated finish.

Service Fixtures are not installed at the factory unless otherwise specified, as such plumbing must be done according to local codes. By default, each fume hood comes with one (1) remote-controlled service fixture for water and another for gas. You can choose to add more depending on the fume hood you have. See table below for summary:

Models	Mono™	Junior™	Acela™	Acid Digestion™	Perchloric™	Radioisotope™	Acela™ M Series	Floor Mounted™	PPH™
No. of fixtures that can be added	2	0	6	6	6	6	6	6	2

Processed Water Cold


Gas

Nitrogen

Oxygen

Compressed Air

Argon

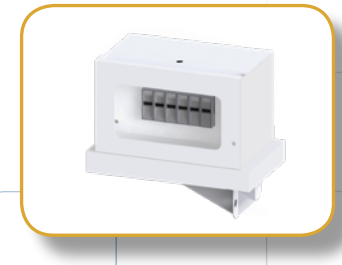
Processed Water Hot

Carbon Dioxide

Deionised Water

Vacuum

Circuit Board Protection (MCB)



Provides additional protection to your fume hood unit during sudden fluctuation of current. This is only applicable to 230 VAC, 50/60 Hz hoods. This is factory-installed so it must be specified when ordering.

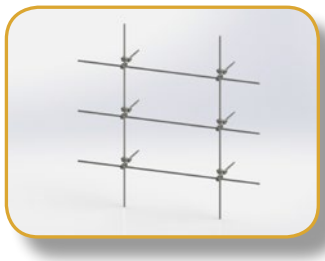
Compatible with the following Esco Frontier® Fume Hoods:
Acela™ • Acid Digestion™ • Perchloric Acid™ • Radioisotope™ • Acela™ M Series • Floor-Mounted™

Exhaust Blower

The Esco exhaust blower is specifically designed for corrosive fume hood applications. Its forward-curved centrifugal type impeller is made of injection molded PPH making it highly resistant to chemicals and corrosion. It's performance is in accordance with AMCA 210-85 and ISO 5801.

Note:
1. When ordering exhaust fans, please specify the desired fan rotation, inlet/ outlet diameters and the power supply.
2. Explosion-proof blowers are also available.

Distillation Grids



Distillation grids are scaffoldings made of stainless steel 304 that are used to support clamps for distillation apparatus.

Drip Cups

Drip cups are factory-installed. Must be specified upon ordering.

Scrubber

Esco's Fume Scrubber provides excellent air pollution control for fumes emitted from the chemicals during analysis before it leaves the exhaust system towards the atmosphere.

Features:

- Excellent removal efficiencies: Efficient counter-current gas/ liquid contact results in 95-98% efficiency for most water-soluble acid and base laden airstreams.
- Durable: Entire body of scrubber system made of chemical and corrosion resistant Polypropylene.
- Compact: The packing, spray manifold and mist eliminator counted on top of fume hood, pump and reservoir in the base cabinet. This arrangement ensures that minimal extra space is required for the scrubber system.

Scrubbing Process

Contaminated exhaust fumes from the fume hood enters the unit, passes through the packed bed (bottom filter), then through the liquid spray section, a mist eliminator (top filter) then into the exhaust system for release to the building exterior. The scrubbing liquor is collected in the reservoir in the bottom section and is recirculated by the pump back to be used in the liquid spray section.

The exhaust fumes and the scrubbing liquor pass in a counter current fashion, resulting in efficient gas/liquid contact.

Compatible with the following Esco Frontier® Fume Hoods:

Acela™ • Acid Digestion™ • Perchloric Acid™ • Radioisotope™ • Acela™ M Series • Floor-Mounted™

Image 1:
Top section of scrubber placed on top of the fume hood. There is an acrylic viewing panel, a packed bed, a liquid spray section as well as a demister in this unit.

Image 2:
Bottom section of scrubber placed inside the base cabinet. Consists of a reservoir for scrubbing liquor and a pump which recirculates the liquor back into the system.

Sentinel™ XL Airflow Alarm

Power-up your fume hood with Sentinel™ XL, an Esco fume hood airflow monitoring device designed to monitor face velocity in real time. The device will generate an alarm if the face velocity is not within safe limits ensuring safety to all operators.

Compatible with the following Esco Frontier® Fume Hoods:

Acela™ • Perchloric Acid™ • Acid Digestion™ • Radioisotope™ • Floor-Mounted™

Key features:

Enhanced Safety

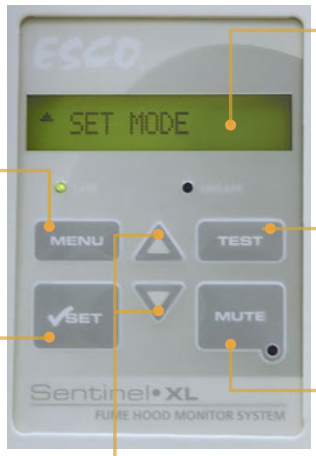
- Provides audible (mutable) and visual alarm if face velocity is not within safe limits.
- Facilitates hood compliance with industry standards such as OSHA, NFPA, ANSU Z9.5 and EN14175.

Easy Installation

- Plug and play.
- Simple to calibrate and maintain.

User-Friendly Tool

- Hassle-free, self-test procedure.
- It has state-of-the-art, easy-to-use digital interface which clearly displays face velocity at one glance.



LCD Display
- Graphical Interface indicates hood performance.

Menu Button
- Provides access to settings, Admin Pin, and calibration.

Test Button
- Checks the buzzer alarm, temperature sensor and airflow sensor.

Set Button
- Displays menu or sub-menu options on LCD screen.

Mute Button
- Enables/disables sash alarm sound

Up and Down Button
- Adjusts value inside menu options
- Moves the sash window upward and downward (for motorized sash only)

After Sales Services

Clean air and containment equipment must be serviced and tested on a regular basis to ensure safety, performance and compliance with standards, regulations and good manufacturing practice. As a manufacturer with products certified to all the leading international standards, Esco ensures that its service is on top of the line.

Not only do our engineers specialize in Esco products and services, they are also trained to service any other brands. We are able of not just testing and servicing Esco equipment but also of all clean air and containment installations.

Parts Availability

Whenever service is needed and parts are required, minimizing downtime is a critical objective. Statistical usage analysis helps Esco to predict parts life, permitting Esco to manage logistics and stage proper inventories around the world. The combination of predictive maintenance, historical data and geospecific proximity assures our customers that parts and labor are available whenever service is scheduled through the local sales organization.

Registration, Documentation and Instruction

Quality control at Esco extends from research and development through engineering, manufacturing, shipment, delivery and customer feedback. Esco maintains an aggressive program to encourage warranty card registration by mail, email or online submission so that we know where Esco products are located and how they are being used. Rest assured that all information disclosed from warranty registrations will be kept confidential. All Esco products include unique serial numbers for identification. Documentation for all performance tests is archived and maintained for customer reference.

Online Technical Information

Site preparation instructions are useful before product arrival and installation. Installation and start-up manuals, operation manuals and quick reference guides are available anytime from the Esco resources online. An interactive online LiveSupport™ concierge center accessible through the Esco website offers extended hours of operation. LiveSupport™ permits users to dialogue directly with Esco personnel.

Service Coordination

Service Coordinator on hand assists and coordinates any technical queries and schedule site visits for customers. As a service team, we are customer service driven, and aims to do all we can to provide the best possible service from start to finish.

References and Links

For more information, you can visit Esco at www.escoglobal.com