



Model EFA-4U M UVW-8 (Shown with EBA-4UDG-0)

# Frontier® ACELA M Series

## The Ideal Hood for the Mining Industry

### Introduction

The Frontier Acela® M Series Fume Hood is designed specifically for users in the mining industry. It provides the highest levels of protection and containment against highly corrosive chemicals at high temperatures.

### Structure

- Esco Resinate Plus internal liner is constructed from high-quality Fiber-Reinforced Plastic (FRP) liner which is UL1805
- Customised to fit any models of furnaces flushed to the work surface.
- Generous inner work depth which is 100mm deeper than conventional hoods reduces risks of leaks and splashes of boiling acids from the hood.
- European made ceramic worktop provides best-in-class resistance to corrosive acids and extreme high temperatures.
- Tri-wall construction for maximum robustness
- Robust chain and sprocket sash support system

### Ergonomics

- 5° Angled Front or the Perfect Pitch Profile™ allows users to lean forward and also minimizes glare and reflections. The gentle pitch of the hood profile enhances visibility and maximizes operator comfort.
- Light intensity greater than 1000 lux for maximum working comfort

### Safety

- Certified to both ASHRAE110 and EN14175 standards for fume hood safety.

- Sentinel XL Digital Airflow Monitor provides real time face velocity display and alarms in unsafe conditions
- Perforated lower baffle improves overall containment of the fume hood.
- Aerodynamic designs of the airfoil, shaping vanes and sash handle guards the entire perimeter of the sash opening ensuring airflow turbulence is minimized.
- Sash stop limits sash movement beyond 457mm (18"), encouraging users to work at safe positions.
- Esco's sash Creep-Down mechanism automatically lowers the sash to a safe position whenever it is temporarily raised above the sash height limit of 457mm (18").
- Sash is made from 6mm tempered safety glass with lamination.

### Structure

- Operates safely at face velocities as low as 0.3m/s (60fpm).
- Exhaust volume reductions of up to 58% can be achieved without compromising safety.
- Energy savings T5 lighting.

### Serviceability

- Removable baffle design allows for periodic cleaning of hood's rear wall. This helps eliminate potential clogs in this area that can reduce containment.
- Internal access panels on the side walls facilitate access to plumbing connections
- Chain and sprocket sash system requires minimal service

## Options and Accessories

- Remote control fixtures for water and special gases
- Large sinks
- Support stand
- Base storage cabinet

## Warranty

- The Frontier Acela® High Performance Fume Hood is warranted for 1 year excluding consumable parts and accessories. Contact your local sales representative for specific warranty details.

Guide to Models											
E F A - 4 U M U _ W _											
External Width Code		Internal Depth Code		Internal Liner Code		Sash Type Code		Color Code		Electrical Code	
1220 mm (48.0")	<b>4U</b>	1000 mm (39.4")	<b>M</b>	Esco Resinate Plus	<b>U</b>	Vertical	<b>V</b>	Esco	<b>W</b>	230 V, AC, 50 / 60Hz	<b>8</b>
1525 mm (60.0")	<b>5U</b>					Combination	<b>C</b>			110-120 V, AC, 50 / 60Hz	<b>9</b>
1830 mm (72.0")	<b>6U</b>										
2440 mm (96.0")	<b>8U</b>										

## General Specifications, Frontier Acela® Fume Hoods - M Series

Model	EFA-4UMU_W_	EFA-5UMU_W_	EFA-6UMU_W_	EFA-8UMU_W_	
Nominal Size	1.2 meters (4')	1.5 meters (5')	1.8 meters (6')	2.4 meters (8')	
External Dimensions* (W x D x H)	1220 x 1000 x 1521 mm 48.0" x 39.4" x 59.9"	1525 x 1000 x 1521 mm 60.0" x 39.4" x 59.9"	1830 x 1000 x 1521 mm 72.0" x 39.4" x 59.9"	2440 x 1000 x 1521 mm 96.0" x 39.4" x 59.9"	
Internal Work Area (W x D x H)	996 x 775 x 1230 mm 39.2" x 30.5" x 48.4"	1301 x 775 x 1230 mm 51.2" x 30.5" x 48.4"	1606 x 775 x 1230 mm 63.2" x 30.5" x 48.4"	2216 x 775 x 1230 mm 87" x 30.5" x 48.4"	
Maximum Sash Opening	740 mm (29.1")				
Face Velocity	Sash Opening				
0.3 m/s (60 fpm)	457 mm (18.0")	541 cmh at 14.3 Pa 316 cfm at 0.06" WG	777 cmh at 14.6 Pa 457 cfm at 0.06" WG	867 cmh at 19.9 Pa 510 cfm at 0.08" WG	1203 cmh at 14.2 Pa 708 cfm at 0.06" WG
0.4 m/s (80 fpm)		721 cmh at 19.7 Pa 424 cfm at 0.08" WG	942 cmh at 23.7 Pa 554 cfm at 0.10" WG	1163 cmh at 28.8 Pa 684 cfm at 0.12" WG	1604 cmh at 26.4 Pa 944 cfm at 0.11" WG
0.5 m/s (100 fpm)		901 cmh at 31.8 Pa 530 cfm at 0.13" WG	1177 cmh at 34.7 Pa 692.8 cfm at 0.14" WG	1453 cmh at 41.8 Pa 855 cfm at 0.17" WG	2005 cmh at 32.3 Pa 1180 cfm at 0.13" WG
0.3 m/s (60 fpm)	736 mm (29.0")	899 cmh at 22.1 Pa 526 cfm at 0.09" WG	1175 cmh at 28.7 Pa 691 cfm at 0.12" WG	1450 cmh at 36.1 Pa 848 cfm at 0.15" WG	1819 cmh at 27.3 Pa 1070 cfm at 0.11" WG
0.4 m/s (80 fpm)		1199 cmh at 36.7 Pa 701 cfm at 0.15" WG	1556 cmh at 49.3 Pa 922 cfm at 0.20" WG	1933 cmh at 61.4 Pa 1138 cfm at 0.25" WG	2668 cmh at 48.3 Pa 1570 cfm at 0.19" WG
0.5 m/s (100 fpm)		1499 cmh at 66.6 Pa 877 cfm at 0.27" WG	1958 cmh at 76.6 Pa 1152 cfm at 0.31" WG	2197 cmh at 94.7 Pa 1285 cfm at 0.38" WG	3335 cmh at 74.3 Pa 1962 cfm at 0.30" WG
Exhaust Outlet Diameter	305 mm (12.0")				
Number of Exhaust Collars	1			2	

\* When sash is in full open position, total height of fume hood is 1731 mm (68.2"). Please ensure sufficient ceiling height clearance is available.

## General Specifications, Base Cabinet for Frontier Fume Hoods

Model*	EBA-4UDG-0 / EBA-4UDG-8	EBA-5UDG-0 / EBA-5UDG-8	EBA-6UDG-0 / EBA-6UDG-8	EBA-8UDG-0 / EBA-8UDG-8
Nominal Size	1220 mm (24")	1525 mm (60.0")	1830 mm (72")	2440 mm (96")
External Dimensions (W x D x H)	1220 x 849 x 915 mm 48.0" x 33.4" x 36.0"	1525 x 849 x 915 mm 60" x 33.4" x 36.0"	1830 x 849 x 915 mm 72" x 33.4" x 36.0"	2440 x 849 x 915 mm 96" x 33.4" x 36.0"
Net Weight	76 kg (167 lbs)	115 kg (253 lbs)	140 kg (309 lbs)	160 kg (353 lbs)
Shipping Weight	80 kg (176 lbs)	121 kg (267 lbs)	140 kg (309 lbs)	160 kg (353 lbs)
Shipping Dimensions, Maximum (W x D x H)	1350 x 750 x 1150 mm 53.1" x 29.5" x 45.3"	1650 x 750 x 1150 mm 65.0" x 29.5" x 45.3"	1950 x 750 x 1150 mm 76.8" x 40.2" x 43.3"	2590 x 1020 x 1100 mm 102" x 40.2" x 43.3"

\* Model EBA-\_\_\_\_-0 is standard base cabinet without MCB/ELCB

Model EBA-\_\_\_\_-8 is with MCB/ELCB protection and only applicable for 230VAC, 50/60Hz units. MCB/ELCB panel is always mounted on the top right hand corner of base cabinet set.

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