

Frontier[®] ACELA[™] M SERIES

Ideal Fume Hood for Mining Industry



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



Durable Internal Liner

- Made of Esco Resinate Plus[™], which is a proprietary composite material made of Fiberglass Reinforced Plastic.
- Offers excellent chemical and physical resistance against harsh chemicals such as highly corrosive acids.
- UL1805 compliant

Generous Inner Work Depth

- The inner work depth is 100 mm deeper than conventional hoods.
- The design helps in containing leaks and splashes during chemical analysis.

High Energy Savings

- Operates safely at face velocities as low as 0.3 m/s. This translates to more energy savings for your lab.
- Uses energy-efficient hood lighting through a pre-wired, electronic ballast.

Robust design

- Has tough chain and sprocket sash support system.
- Designed to accommodate heavy equipment such as furnaces.

Tri-Wall Construction Coated with Isocide[™]

- Built for maximum robustness, long term chemical abrasion and weathering resistance.

Optional Accessories:



Base Cabinet (EBA)



Circuit board protection



Service fixtures



Sentinel[™] XL Airflow Alarm



Scrubber



Support Stand (ASL)

Frontier[®] ACELA[™] M Series

Fume Hood • Laboratory Fume Hoods

Guide to Models, Frontier® Acela™ M Series

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

* Combination sash is not available for 8 feet models

General Specifications, Frontier® Acela™ M Series

Model	220-240 VAC, 50/60 Hz, 1Ø	EFA-4UMUVW-8	EFA-5UMUVW-8	EFA-6UMUVW-8	EFA-8UMUVW-8	
		2090567	2090362	2090568		
Nominal Size	110-120 VAC, 50/60 Hz, 1Ø	EFA-4UMUCW-8	EFA-5UMUCW-8	EFA-6UMUCW-8	EFA-8UMUCW-8	
		2090640	2090570	2090571		
External Dimensions (W x D x H)	Fume Hood unit only	1220 x 1000 x 1400 mm (48.0" x 39.4" x 55.1")	1525 x 1000 x 1400 mm (48.0" x 39.4" x 55.1")	1830 x 1000 x 1400 mm (48.0" x 39.4" x 55.1")	2440 x 1000 x 1400 mm (48.0" x 39.4" x 55.1")	
	With Exhaust Collar	1220 x 1000 x 1521 mm (48.0" x 39.4" x 60.0")	1525 x 1000 x 1521 mm (48.0" x 39.4" x 60.0")	1830 x 1000 x 1521 mm (48.0" x 39.4" x 60.0")	2440 x 1000 x 1521 mm (48.0" x 39.4" x 60.0")	
	With Fully-opened Sash	1220 x 1000 x 1603 mm (48.0" x 39.4" x 63.1")	1525 x 1000 x 1603 mm (48.0" x 39.4" x 63.1")	1830 x 1000 x 1603 mm (48.0" x 39.4" x 63.1")	2440 x 1000 x 1603 mm (48.0" x 39.4" x 63.1")	
Internal Dimensions (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")	
Exhaust Volume/Static Pressure Required	Face Velocity	Sash Opening				
	0.3 m/s (60 fpm)	Design opening: 457 mm (18.0")	541 cmh at 14.3 Pa (318 cfm at 0.06" WG)	776 cmh at 14.6 Pa (457 cfm at 0.06" WG)	866 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)		720 cmh at 19.7 Pa (424 cfm at 0.08" WG)	941 cmh at 23.7 Pa (554 cfm at 0.10" WG)	1162 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)		900 cmh at 31.8 Pa (530 cfm at 0.13" WG)	1174 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)	Full open: 736 mm (29.0")	894 cmh at 22.1 Pa (526 cfm at 0.09" WG)	1174 cmh at 28.7 Pa (691 cfm at 0.12" WG)	1440 cmh at 36.1 Pa (848 cfm at 0.15" WG)	1818 cmh at 27.3 Pa (1070 cfm at 0.11" WG)
	0.4 m/s (80 fpm)		1191 cmh at 36.7 Pa (701 cfm at 0.15" WG)	1566 cmh at 49.3 Pa (922 cfm at 0.20" WG)	1933 cmh at 61.4 Pa (1138 cfm at 0.25" WG)	2667 cmh at 48.3 Pa (1570 cfm at 0.19" WG)
0.5 m/s (100 fpm)	1490 cmh at 66.6 Pa (877 cfm at 0.27" WG)		1957 cmh at 76.6 Pa (1152 cfm at 0.31" WG)	2183 cmh at 94.7 Pa (1285 cfm at 0.38" WG)	3333 cmh at 74.3 Pa (1962 cfm at 0.30" WG)	
Exhaust Outlet Diameter		305 mm (12.0")				
Number of Exhaust Collars		1		2		
Fluorescent Lamp Intensity		930 lux (86.3 foot-candles)	915 lux (85 foot-candles)	886 lux (82.3 foot-candles)	931 lux (86.5 foot-candles)	
Construction	Main Body	Electrogalvanized steel with Epoxy-polyester hybrid Isocide™ powder coating				
	Internal Liner (default)	Esco Resinate™ Plus				
	Worktop (default)	Ceramic Worktop				
Sash Specification	Sash Material	Laminated-Tempered and Framed Safety Glass				
	Sash Configuration	Vertical (for units EFA-__MUVW-8 and EFA-__MUVW-9) Combination (for units EFA-__MUCW-8 and EFA-__MUCW-9)				
	Sloping	5° Sloped				
	Maximum Sash Opening (two vertical sash opening)	740 mm (29.1")				
Electrical	Cabinet Full Load Amps (FLA)	32 A				
	Cabinet Nominal Power	100 W (lighting only)				
Net Weight*		255 Kg (562 lbs)	305 Kg (672 lbs)	365 Kg (805 lbs)	473 Kg (1043 lbs)	
Shipping Weight*		285 Kg (628 lbs)	335 Kg (739 lbs)	395 Kg (871 lbs)	503 Kg (1109 lbs)	
Shipping Dimension, maximum (W x D x H)*		1300 x 1050 x 1900 mm (51.2" x 41.3" x 74.8")	1650 x 1050 x 1900 mm (65.0" x 41.3" x 74.8")	1950 x 1050 x 1900 mm (76.8" x 41.3" x 74.8")	2500 x 1050 x 1900 mm (98.4" x 41.3" x 74.8")	

* Fume Hood unit only. Excludes base cabinet/optional stand.

Specialized High Performance Fume Hood