

Frontier[®] ACID DIGESTION[™]

Acid Digestion Fume Hood



Esco Frontier[®] Acid Digestion[™] Fume Hood is a high performance low flow fume hood designed to handle concentrated acids at high temperatures. This specialized fume hood can be built with unplasticized polyvinylchloride (u-PVC) or polypropylene (PP) internal surfaces which are known for their superior chemical resistance. Sash is made up of polycarbonate material to prevent etching caused by Hydrofluoric Acid.

Ergonomic Polycarbonate Sash

- Excellent choice for applications involving the use of acids such as hydrofluoric acid to prevent fogging or etching.
- With sash stop feature that regulates movement beyond 457 mm (18") to maintain a safe working condition for the user.
- Sash key lock feature allows laboratory managers to restrict access in the fume hood.

U-PVC or PP Internal Chamber

- Designed to withstand reaction from strong and corrosive acids.



Sentinel[™] XL Airflow Alarm (Optional)

- An airflow monitoring device designed to monitor face velocity in real time.
- Generates an alarm if the face velocity is not within safe limits ensuring safety to all operators.

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



Worktop



Support Stand (ASL)

Guide to Models, Frontier® Acid Digestion™ Fume Hoods

EFQ - D W -

External Width	Code	External Depth	Code	Internal Liner	Code	Sash Type	Code	Color Code	Code	Electrical Code	Code
1220 mm (48.0")	4U	900 mm (35.4")	D	u-PVC	C	Vertical	V	Esco White	W	230 VAC, 50/60 Hz	8
1525 mm (60.0")	5U			Polypropylene	P	Combination	C			110-120 VAC, 50/60 Hz	9
1830 mm (72.0")	6U										
2440 mm (96.0")	8U										

* Combination Sash not available for EFQ-8UDC_W- model.

General Specifications, Frontier® Acid Digestion™ Fume Hoods

Model	220-240 VAC, 50/60 Hz, 1Ø		EFQ-4UDCCW-8 2090239	EFQ-5UDCCW-8 2090245	EFQ-6UDCCW-8 2090212	EFQ-8UDCVW-8 2040191				
				EFQ-4UDPCW-8 2090030	EFQ-5UDPCW-8 2090022	EFQ-6UDPCW-8 2090031				
			EFQ-4UDCVW-8 2090066	EFQ-5UDCVW-8 2090246	EFQ-6UDCVW-8 2090264	EFQ-8UDPVW-8 2090038				
			EFQ-4UDPVW-8 2090035	EFQ-5UDPVW-8 2090036	EFQ-6UDPVW-8 2090037					
	110-120 VAC, 50/60 Hz, 1Ø		EFQ-4UDCCW-9 2090201	EFQ-5UDCCW-9 2090534	EFQ-6UDCCW-9 2090535	EFQ-8UDCVW-9 2090327				
			EFQ-4UDPCW-9 2090538	EFQ-5UDPCW-9 2090539	EFQ-6UDPCW-9 2090540					
			EFQ-4UDCVW-9 2090050	EFQ-5UDCVW-9 2090536	EFQ-6UDCVW-9 2090537	EFQ-8UDPVW-9 2090542				
			EFQ-4UDPVW-9 2090328	EFQ-5UDPVW-9 2090541	EFQ-6UDPVW-9 2090270					
Nominal Size			1.2 meter (4')	1.5 meter (5')	1.8 meter (6')	2.4 meters (8')				
External Dimensions (W x D x H)	Fume Hood unit only	1220 x 900 x 1400 mm (48.0" x 35.4" x 55.1")		1525 x 900 x 1400 mm (60.0" x 35.4" x 55.1")		1830 x 900 x 1400 mm (72.0" x 35.4" x 55.1")		2440 x 900 x 1400 mm (96.1" x 35.4" x 55.1")		
	With Exhaust Collar	1220 x 900 x 1460 mm (48.0" x 35.4" x 57.5")		1525 x 900 x 1460 mm (60.0" x 35.4" x 57.5")		1830 x 900 x 1460 mm (72.0" x 35.4" x 57.5")		2440 x 900 x 1460 mm (96.1" x 35.4" x 57.5")		
	With Fully-opened Sash	1220 x 900 x 1603 mm (48.0" x 35.4" x 63.1")		1525 x 900 x 1603 mm (60.0" x 35.4" x 63.1")		1830 x 900 x 1603 mm (72.0" x 35.4" x 63.1")		2440 x 900 x 1603 mm (96.1" x 35.4" x 63.1")		
Internal Dimensions (W x D x H)			996 x 689 x 1230 mm (39.2" x 27.1" x 48.4")	1300 x 689 x 1230 mm (51.2" x 27.1" x 48.4")	1605 x 689 x 1230 mm (63.2" x 27.1" x 48.4")	2210 x 689 x 1230 mm (87.0" x 27.1" 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 Pa (318 cfm at 0.06" WG)	777 cmh at 15 Pa (457 cfm at 0.06" WG)	872 cmh at 20 Pa (513 cfm at 0.08" WG)	1203 cmh at 14.20 Pa (708 cfm at 0.06" WG)				
	0.4 m/s (80 fpm)		721 cmh at 20 Pa (424 cfm at 0.08" WG)	942 cmh at 24 Pa (554 cfm at 0.10" WG)	1163 cmh at 29 Pa (685 cfm at 0.12" WG)	1604 cmh at 26.44 Pa (944 cfm at 0.11" WG)				
	0.5 m/s (100 fpm)		901 cmh at 32 Pa (530 cfm at 0.13" WG)	1177 cmh at 35 Pa (693 cfm at 0.14" WG)	1453 cmh at 42 Pa (855 cfm at 0.17" WG)	2005 cmh at 34.26 Pa (1180 cfm at 0.14" WG)				
	0.3 m/s (60 fpm)	Full open: 640 mm (25.2")	899 cmh at 22 Pa (529 cfm at 0.09" WG)	1175 cmh at 29 Pa (692 cfm at 0.12" WG)	1450 cmh at 36 Pa (853 cfm at 0.14" WG)	1819 cmh at 27.28 Pa (1071 cfm at 0.11" WG)				
	0.4 m/s (80 fpm)		1199 cmh at 37 Pa (706 cfm at 0.15" WG)	1556 cmh at 49 Pa (916 cfm at 0.20" WG)	1285 cmh at 61 Pa (756 cfm at 0.24" WG)	2668 cmh at 48.34 Pa (1570 cfm at 0.19" WG)				
0.5 m/s (100 fpm)	1499 cmh at 67 Pa (882 cfm at 0.27" WG)		1958 cmh at 77 Pa (1152 cfm at 0.31" WG)	2197 cmh at 95 Pa (1293 cfm at 0.38" WG)	3335 cmh at 74.25 Pa (1963 cfm at 0.30" WG)					
Exhaust Outlet Diameter and Material			254 mm (10"), PVC Pipe							
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	u-PVC or Polypropylene								
	Worktop									
Sash Specification	Sash Material	Polycarbonate								
	Sash Configuration	Vertical or Combination								
	Sloping	5°								
	Maximum Sash Opening	640 mm (25.2")								
Electrical	Cabinet Full Load Amps (FLA)	32 A								
	Cabinet Nominal Power	100 W (lighting only)								
Shipping Weight*			263 Kg (580 lbs)	314 Kg (692 lbs)	363 Kg (800 lbs)	472 Kg (1041 lbs)				
Shipping Dimension, maximum (W x D x H)*			1300 x 950 x 1940 mm (51.2" x 37.4" x 76.4")	1650 x 950 x 1940 mm (65.0" x 37.4" x 76.4")	1950 x 950 x 1940 mm (76.8" x 37.4" x 76.4")	2500 x 950 x 1940 mm (98.4" x 37.4" x 76.4")				

*Fume hood unit only. Exclude base cabinet/optional stand.