

# UniFlow<sup>®</sup> Perchloric Acid Fume Hoods

UniFlow Perchloric Acid Fume Hoods feature either a type 316 stainless steel or PVC one-piece fume chamber with integral worksurface and are engineered for the safe handling of perchloric acids in laboratory procedures. Perchloric Acid Hoods are offered in sizes 48", 60", & 72" widths and include a dedicated wash down and exhaust system. It is recommended to thoroughly wash down fume chamber and exhaust system after each use. Note: Perchloric Acid Hoods are for perchloric acid use only.



**UniFlow Perchloric Acid Hood Cat. No. 12501**  
shown with optional base cabinets and fixtures

## Optional Accessories

- Plumbing Fixtures** are color coded to specific service.
- Electrical Services**
- Acid Cabinet**
- Fume Hood Base Cabinet**
- Apparatus Rack**

**UniFlow Superstructure** constructed of either PVC or 316 stainless steel features exclusive unitized dual wall construction for superior chemical resistance (**NO RUST**), strength, and durability. Rear drain trough is integral to superstructure. Dedicated wash down with integral piping spray nozzles & remote control on right column. One-piece interior fume chamber type 316 stainless steel fume or PVC fume chamber and baffle. Meets NFPA-45 classification with flame spread of less than 25 per ASTM E-84.

**PVC or Stainless Steel Worksurfaces**  
integral PVC or 316 stainless steel worksurface.

**Access Panel** removable to access ducting connections, plumbing & electrical services from a single point electrical box, 115/230V, 50/60Hz AC operation. Energy efficient explosion proof light fixture with light switch on left column, all factory installed.

**28" Vertical Sash Height** provides ease of access for apparatus set-up in fume chamber. 24" or 30" interior reach in depth, and 44" interior working height. Sash is perfectly counter balanced, 3/16 tempered safety glass, coated stainless steel cable with stainless steel pulley assembly. Framed in nonmetallic PVC framing, track, and aerodynamic sash lift for ease of movement and air flow efficiency.



**Air Flow Monitor** (Optional equipment) continuously monitors face velocity air flow, meets ANSI and OSHA requirements.

**Cat. No. 51403**

## OPTIONAL ACCESSORIES

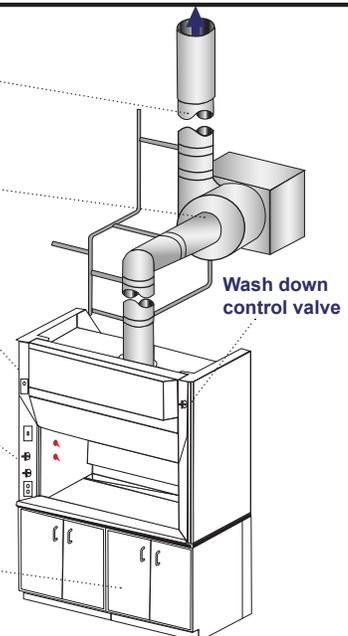
**Ducting & Wash Down Systems**  
(by others)

**Perchloric Acid Exhaust Blowers**

**Air Flow Monitors**

**Plumbing and Electrical Services**  
Factory installed according to your exact specifications

**Base Cabinets and Worksurfaces**



# UniFlow<sup>®</sup> Perchloric Acid Fume Hoods

UNIFLOW PERCHLORIC ACID FUME HOODS DESCRIPTIONS		Hood Depth "B"	FUME HOOD WIDTH "A"		
			48" Cat.No.	60" Cat.No.	72" Cat.No.
<b>1. Uniflow 316 Stainless Steel Perchloric Acid Laboratory Fume Hood:</b> Seamless type 316 stainless steel fume chamber with integral worksurface and drainage trough with baffle and exhaust collar. Hood has built-in wash down system with spray nozzles and piping to front mounted control valve. Picture frame sash opening with counterbalanced clear tempered safety glass sash with chemical resistant PVC framing, track, and aerodynamic sash lift. Explosion-proof light fixture Cat. No. 50034, installed but not wired, 115/230V, 50/60Hz AC, Class I Div II Groups A B C D, Class II Div II Groups F&G, all electrical components UL listed.	30"	12401	12501	12601	
	36"	12411	12511	12611	
<b>2. Uniflow PVC Perchloric Acid Laboratory Fume Hood:</b> Seamless PVC fume chamber with integral worksurface and drainage trough, with baffle and exhaust collar. Hood has built-in wash down system with spray nozzles and piping to front mounted control valve. Picture frame sash opening with counterbalanced clear tempered safety glass sash with chemical resistant PVC framing, track, and aerodynamic sash lift. Explosion-proof light fixture Cat. No. 50034, installed but not wired, 115/230V, 50/60Hz AC, Class I Div II Groups A B C D, Class II Div II Groups F&G, all electrical components UL listed. Optional plumbing services.	30"	12421	12521	12621	
	36"	12431	12531	12631	
<b>PERCHLORIC ACID EXHAUST BLOWERS</b>					
<b>3. Blowers</b> are constructed of fluoropolymer coated steel, belt driven, includes explosion proof motor, non-sparking wheel, spray wash nozzle and drain in the blower housing. The specifications to the right are based on 120 FPM face velocity.	(For 48" hoods) 475 CFM @ 1/2 open (For 48" hoods) 950 CFM @ full open	52395 51395			
	(For 60" hoods) 625 CFM @ 1/2 open (For 60" hoods) 1250 CFM @ full open		52396 51396		
	(For 72" hoods) 765 CFM @ 1/2 open (For 72" hoods) 1525 CFM @ full open				52397 51397
<b>4. Optional stainless steel stack outlet with wash down nozzles:</b>			51398	51398	51399

**Questions / Ready to order  
Call 1-800-779-4362**

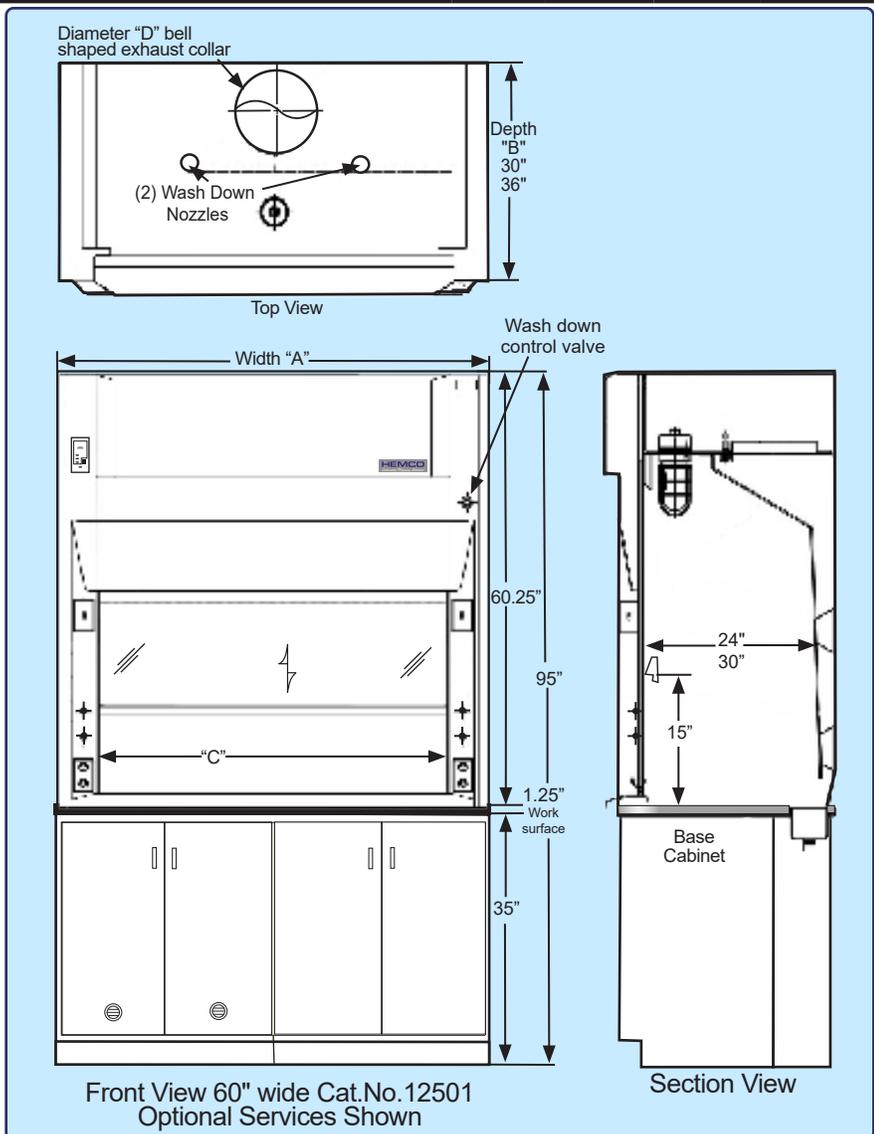
Width "A"	48"	60"	72"
Width "C"	38"	50"	61"
Diameter "D"	10"	10"	12"

**Fume Hood Face Velocity** 

The recommended face velocity for efficiency & safety is 80-100 FPM. Lower face velocity may compromise user safety. Sash in full open position should be for setup of apparatus & maintenance service only. Design opening is at 1/2 open at 100 FPM (feet per minute), face velocity at full open would be approximately 50 FPM.

Size Hood	48"	60"	72"
1/2 Open CFM	475	625	765
Full Open CFM	950	1250	1525

**Sash Stop** located at 1/2 open position to reduce air flow volume 50%, provides best possible user protection and safety.  **Cat. No. 51651**



Front View 60" wide Cat.No.12501  
Optional Services Shown

Section View