

# UniFlow<sup>®</sup> HDPE Acid Digestion Fume Hoods

UniFlow HDPE Acid Digestion Fume Hoods feature a one-piece fume chamber with integral reinforced work surface, and baffles constructed of High Density Polyethylene. Digestion hoods come in 48", 60" & 72" widths & feature a dedicated wash down & exhaust system.



UniFlow HDPE Acid Digestion Hood Cat. No. 23511 shown with optional base cabinet and fixtures

**UniFlow Superstructure** constructed of HDPE exclusive unitized dual wall construction for superior chemical resistance strength, and durability. Vent outlet is integral to superstructure and is available in HDPE lined hoods.

**Fume Chamber** and baffle are constructed with HDPE liner with 24" or 30" interior depth. The one-piece liner is engineered to resist reactions from corrosive chemicals that don't require high temperatures.

**HDPE Worksurface** is welded integral to the fume hood superstructure and dished to contain spillage and includes welded in rear drain trough. If a sink is required HDPE would allow the sink to be welded in.

**Access Panel** removable to access ducting connections and electrical services from a single point electrical box, 115/60Hz AC operation.

**Vapor Proof LED light fixture** polished stainless steel reflectors, and light switch on left column, all factory installed. Energy efficient 15W, 50/60Hz, LED light 115V 230 VAC. 5 Year warranty. U.L. Listed

**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.

**Wash Down System** hood is equipped with spray nozzles, piping, valve and rear drain trough for rinsing wash down after usage.



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

Cat. No. 51403

## SASH MANAGEMENT 1-2-3

Cut Energy Costs up to 50%, by reducing the size of the blower & ductwork required, while lowering installation costs. (see page 38)

- 1. Important:** by incorporating Sash Management 1-2-3, you are saving 50% on overall energy costs, and providing the best possible user protection & safety.
- 2. Recommended** that hoods be used with sash 1/2 open with face velocity of 80-100 FPM. Sash stop located at 1/2 open position. With upper sash raised to the 1/2 open position the supply air CFM & static pressure are as noted. (see page 4)
- 3. Sash in full open position should be for setup of apparatus & maintenance service only. If design opening is at 1/2 open at 100 FPM, face velocity at full open would be approximately 50 FPM. The recommended face velocity for efficiency & safety is 80-100 FPM. Lower face velocity may compromise user safety.**
- 4. When hood is not in use, keep sash in closed position.**
- 5. Sash stops are standard on U.L. Classified Fume Hoods. UniFlow SE, LE and CE AirStream fume hoods**
- 6. The Sash Stop is designed for user protection and CFM reduction. Allows sash to open to a maximum of half open, providing up to 50% energy savings.**
- 7. Sash at full open is primarily designed for set-up of equipment and maintenance. Fume hood users should wear personal safety protection equipment, consult Lab Safety Officer.**
- 8. HEMCO recommends 10-12 room air changes per hour for the health & safety of personnel. Example 10' X 20' room 10' high receiving 10 room air changes per hour requires 350 CFM air flow through the lab.**
- 9. At an average utility rate of \$7.00 per CFM, a typical annual savings on a 4' fume hood would be \$2705.00 and on a 6' fume hood \$4067.00, by using Sash Management 1-2-3., Sash Stop at 50% open.**




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UNIFLOW HDPE ACID DIGESTION DESCRIPTIONS		Hood Depth "B"	FUME HOOD WIDTH "A"		
			48" Cat.No.	60" Cat.No.	72" Cat.No.
<b>1. Uniflow HDPE Acid Digestion Laboratory Fume Hood:</b> Seamless HDPE fume chamber with integral worksurface and drainage trough, all covered corners 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 polycarbonate sash with chemical resistant PVC framing and track and aerodynamic sash lift. Vapor proof LED light fixture and control switch are wired to a single point junction box, 115/60Hz, AC All electrical components are U.L. listed.	30"	23411	23511	23611	
	36"	23421	23521	23621	
	30"	23431	23531	23631	
<b>2. Uniflow HDPE Acid Digestion Laboratory Fume Hood:</b> Same as #1 above, except without trough and wash down.	36"	23441	23541	23641	
	<b>3. Polypro Exhaust Blower:</b> Belt driven, include TEFC motors and feature a spray wash nozzle and drain in the blower housing. The specifications to the right are based on 100 FPM face velocity.		(For 48" hoods) 1/2 HP Blower - 800 CFM @ 1" SP	51495	
		(For 60" hoods) 1/2 HP Blower - 1000 CFM @ 1" SP		51496	
		(For 72" hoods) 3/4 HP Blower - 1200 CFM @ 1" SP		51497	


Questions / Ready to order  
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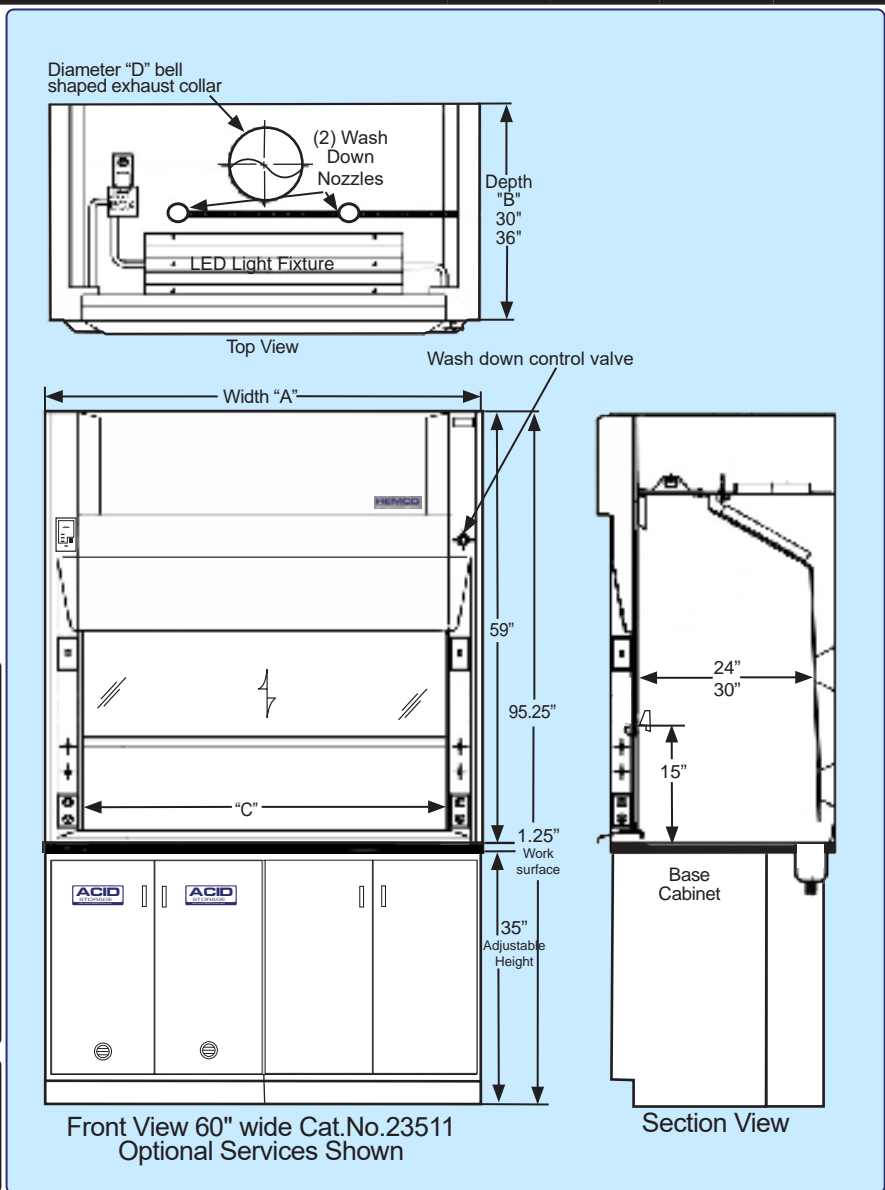
UniFlow Acid Digestion Hood Dimensions			
Width "A"	48"	60"	72"
Width "C"	38"	50"	62"
Diameter "D"	10"	10"	12"

- Optional Accessories**
- Plumbing Fixtures** are color coded to specific service.
  - Electrical Services**
  - Air Flow Monitor**
  - Acid Cabinet**
  - Fume Hood Base Cabinet**

**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.

Sash Management & Design			
Size Hood	48"	60"	72"
1/2 Open CFM	385	474	592
Full Open CFM	773	938	1162

**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.23511  
Optional Services Shown

Section View