

PRESENTATION OF NEW FAMILY OF FUME HOODS



Three new Fume Hood models

1. Radioisotopes



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2. Perchloric Acids



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3. Strong Acids



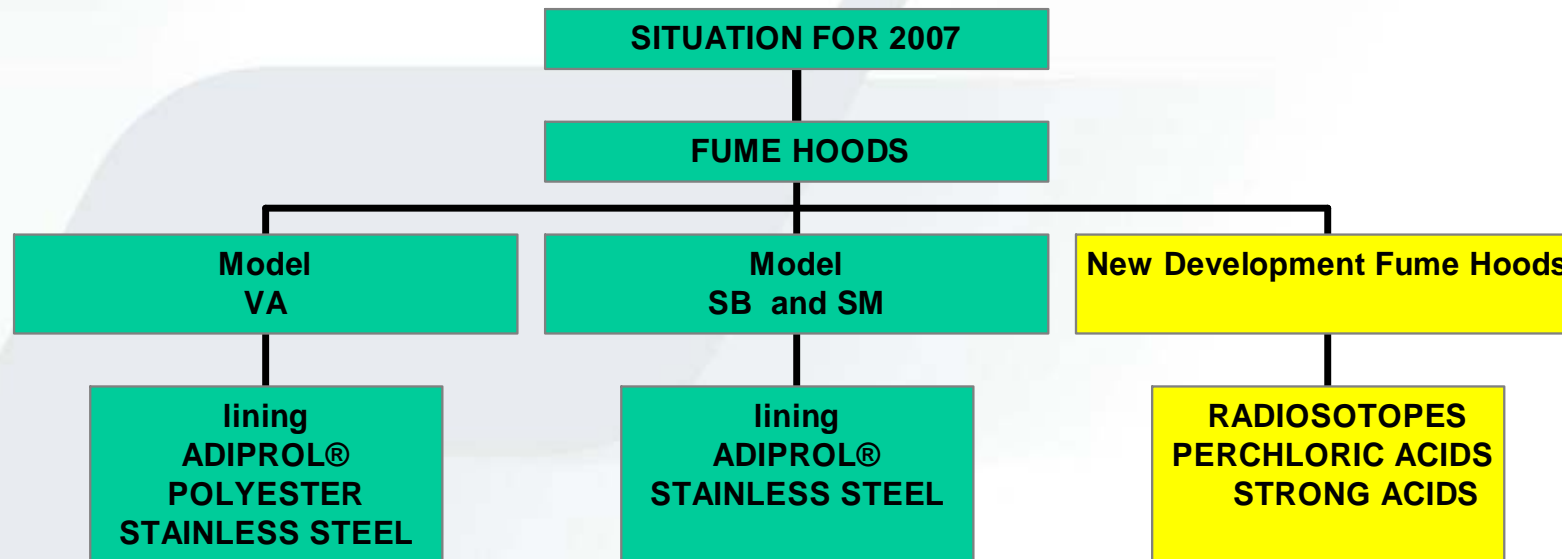
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** The present drawings are not necessary correspondent with the real equipment*

OBJECTIVES

- **EXTEND THE RANGE**
- **MODERNIZE THE PRODUCT**
- **COMPETITIVE PRICES**
- **FULFILL CUSTOMER NEEDS**

FUME HOOD PRODUCTION AS OF TODAY



1. Radioisotopes

- Fume Hood customized to carry out radioactive tests with Beta and Gamma radioactive isotopes.
- A “MUST” in Biological and Medical Laboratories
- One unique size 1200x810 mm.



1. Radioisotopes

Dimensions:

- LENGTH: 1200 mm
- HEIGHT *: 2300-2500 mm
- DEPTH: 810 mm

Fume Hood Monitor:

- Basic monitor,
- Airflow Safety Control Monitor

Service Fixture

- Electrical outlets: 4 (standard)



1. Radioisotopes

- Inside body layer built in Polypropelene 10 mm. thickness
- 2 mm lead layer to retain Gamma radiation
- 60 mm air layer in between lead and Stainless steel layer.
- 3 mm epoxi coated Stainless Steel to retain Beta radiation
- Sash thickness of 20 mm. Composed by a 10 mm metacrilate core layer and an exterior 10 mm. crystal and lead blended layer with a 2,2 mm of lead.
- Solded joints
- Special holes, to operate with maximum protection and safety with sash completely down



1. Radioisotopes

Filter Unit

- Pressure gauge that measures filter capacity
- Activated Carbon filter and an absolute radiation filter
- Gamma and Beta Isotopes proof filter



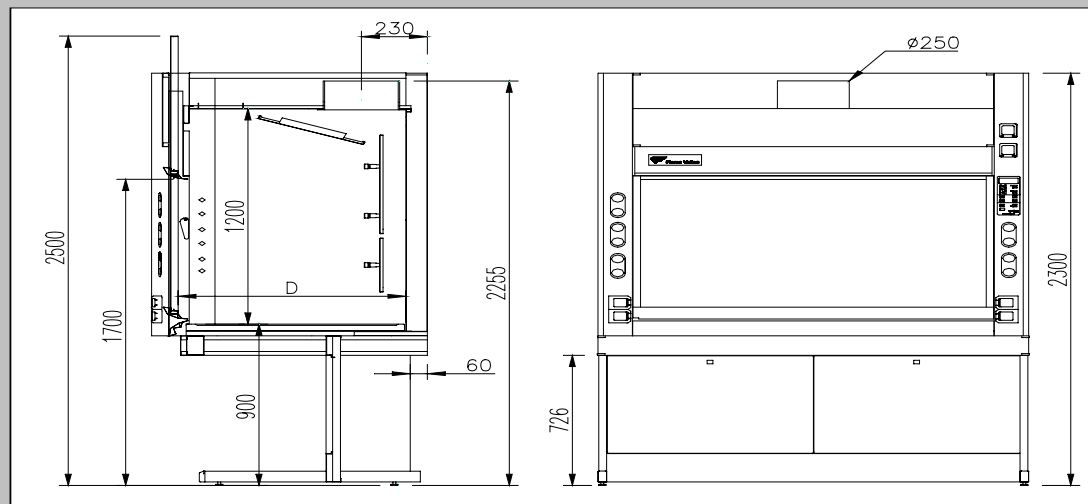
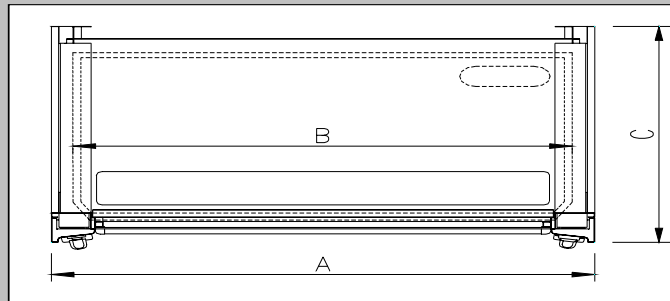
1. Radioisotopes

RadioIsotopes Fume Hood Dimensions

RADIOISOTOPES

FUME CUPBOARD of (mm.):

Length		C	Depth		Height
A	B		C	D	
A	1200	C	810	2300-2500	
B	1080	D	605		



2. Perchloric Acids



- Precisely and Specifically developed for Perchloric Acid testing
- Interior made up of Stainless Steel AISI 316
- Mirror finishing chamber to avoid Perchloric acid corrosion
- 2 Choices of worktop
 - Ceramic
 - Stainless Steel

2. Perchloric Acids

Dimensions:

- LENGTH: 1500, 1800, 2100 mm
- HEIGHT *: 2300-2500 mm
- DEPTH: 960 mm
- WORKING CHAMBER HEIGHT: 1200 mm

Fume Hood Monitor:

- Basic monitor
- Airflow Safety Control Monitor

Service Fixture:

- Up to 10 taps

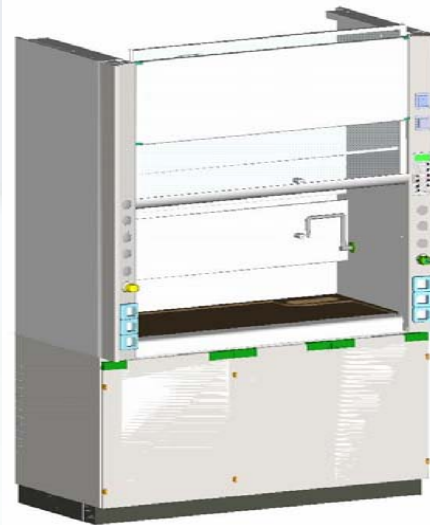
Electrical outlets:, 4 (standard)

2. Perchloric Acids

Flexible sizes and configuration for Perchloric acid fume hoods

Lower body:

- 1.- “C” frame base mounted (with* or without under fume cupboard acids & alkalis cabinets LAB)
- 2.- Standard base cabinet mounted
- 3.- Without lower body (Bench mounted)



* LAB are not available for Fume Hoods of 810mm depth.

2. Perchloric Acids

- Special Feature
 - Wash down System: High pressure sprinklers within the chamber that will allow the user to wash it up once they are finished.
 - Sprinklers location:
 - Behind Back Panels
 - Within the extraction duct

2. Perchloric Acids

- Behind back panels
- Within extraction duct



2. Perchloric Acids

Corrosion resistance survey



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Corrosion Resistance ¹Good ² Be Careful ³ Not Useable

* The present drawings are not necessary correspondent with the real equipment

	316 Stainle ss Steel		316 Stainle ss Steel
Acetaldehyde	1	Hydrofluoric acid, aerated	2
Acetic acid, air free	2	Hydrofluoric acid, air free	2
Acetic acid, aerated	1	Hydrogen	1
Acetic acid, vapors	1	Hydrogen peroxide	1
Acetone	1	Hydrogen sulfide, liquid	1
Acetylene	1	Magnesium Hydroxide	1
Alcohols	1	Mercury	1
Aluminum Sulfate		Methanol	1
Ammonia	1	Methyl ethyl ketone	1
Ammonium chloride	2	Milk	1
Ammonium Nitrate	1	Natural gas	1
Ammonium Phosphate	1	Nitric acid	2
Ammonium Sulfate	1	Oleic acid	1
Ammonium Sulfite	1	Oxalic acid	2
Aniline	1	Oxygen	1
Asphalt	1	Petroleum oils	1
Beer	1	Phosphoric acid, aerated	1
Benzene (benzol)	1	Phosphoric acid, air free	1
Benzoic acid	1	Phosphoric acid vapors	2
Boric acid	1	Perchloric acid	1
Butane	1	Potassium chloride	1
Calcium Chloride (alkaline)	2	Potassium hydroxide	1
Calcium hypochlorite	2	Propane	1
Carbolic acid	1	Rosin	1
Carbon dioxide, dry	1	Silver Nitrate	1
Carbon dioxide, wet	1	Sodium acetate	1
Carbon disulfide	1	Sodium carbonate	1
Carbon tetrachloride	2	Sodium chloride	2
Carbonic acid	2	Sodium chromate	1
Chlorine gas	2	Sodium hydroxide	1
Chlorine gas, wet	3	Sodium hypochloride	3
Chlorine, liquid	3	Sodium thiosulfate	1
Chromic acid	2	Stannous chloride	1
Citric acid	1	Stearic acid	1
Coke oven gas	1	Sulfate liquor	1
Copper sulfate	2	Sulfur	1
Cottonseed oil	1	Sulfur dioxide, dry	1
Creosote	1	Sulfur trioxide, dry	1
Ethane	1	Sulfuric acid, aerated	3
Ether	1	Sulfuric acid, air free	3
Ethyl chloride	1	Sulfurous acid	2
Ethylene	1	Tar	1
Ethylene glycol	1	Trichloroethylene	1
Ferric chloride	3	Turpentine	1
Formaldehyde	1	Vinegar	1
Formic acid	2	Water, steam boiler feeding system	1
Freon wet	1	Water, distilled	1
Freon dry	1	Water, sea	2

2. Perchloric Acids

Perchloric Acids Fume Hoods Dimensions

PERCHLORIC ACID

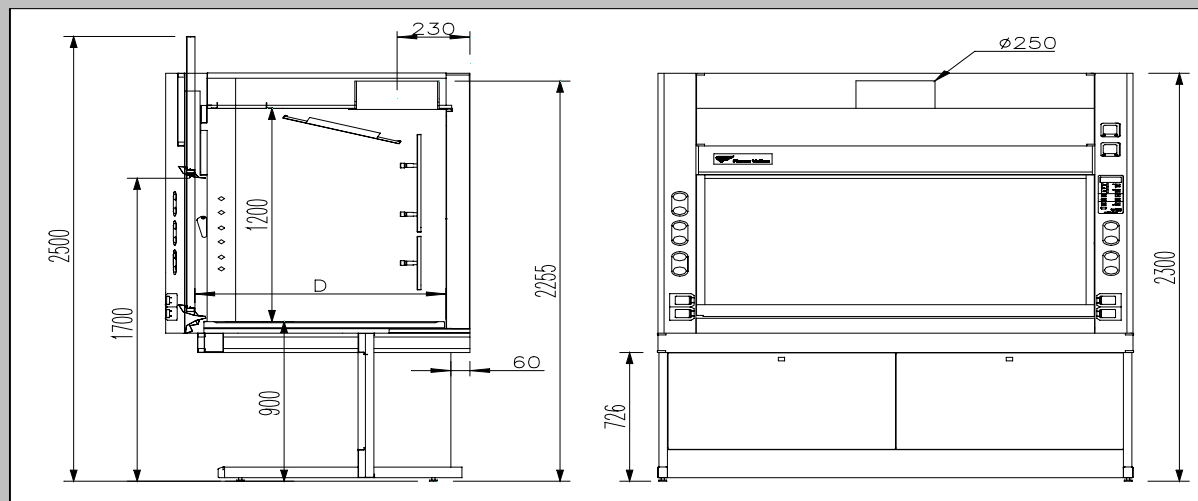
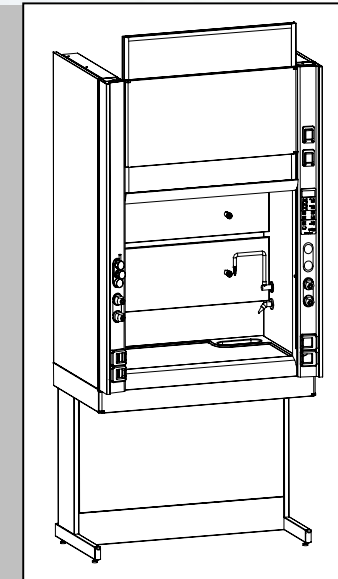
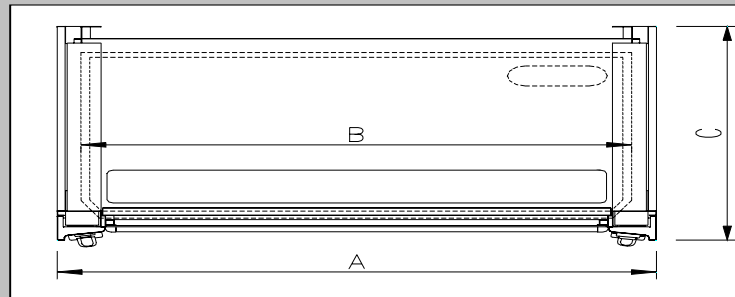
FUME CUPBOARD of (mm.):

	Length		
A	1500	1800	2100
B	1380	1680	1980

	Depth
C	960
D	755

	Height
	2300-2500

Model	Cupboard LZW - LAB
PC150960	600 + 900
PC180960	900 + 900
PC210960	600+600+900



3. Strong Acids

- Specifically developed for Strong Acids testing.

ph < 3

- Sulphuric Acid. H₂SO₄
- Hydrochloric Acid. HCL
- Nitric Acid. HNO₃
- Hydrofluoric Acid. HF

- Capable to digest high concentrate substances for long periods of time



3. Strong Acids



Dimensions:

- **LENGTH:** 1200, 1500, 1800 mm.
- **HEIGHT:** 2300-2500 mm
- **DEPTH:** 960 mm
- **WORKING CHAMBER HEIGHT:** 1200 mm

Fume Hood Monitor:

- Basic monitor
- Airflow Safety Control Monitor

Service Fixture:

- Up to 10 taps

Electrical outlets: 4 (standard)

3. Strong Acids

Flexible sizes and configuration For Strong Acid fume hoods

Lower body:

- 1.- “C” frame base mounted (with* or without under fume cupboard acids & alkalis cabinets LAB)
- 2.- Standard base cabinet mounted
- 3.- Without lower body (Bench mounted)



* LAB are not available for Fume Hoods of 810mm depth.

3. Strong Acids

- Working chamber reinforced with polypropelene and solded edges.
- Back panels made up of Polypropelene
- 3 Choices of worktop:
 - Ceramic
 - Epoxy some
 - Polypropelene



3. Strong Acids

Strong Acid Fume Hood Dimensions

STRONG ACIDS

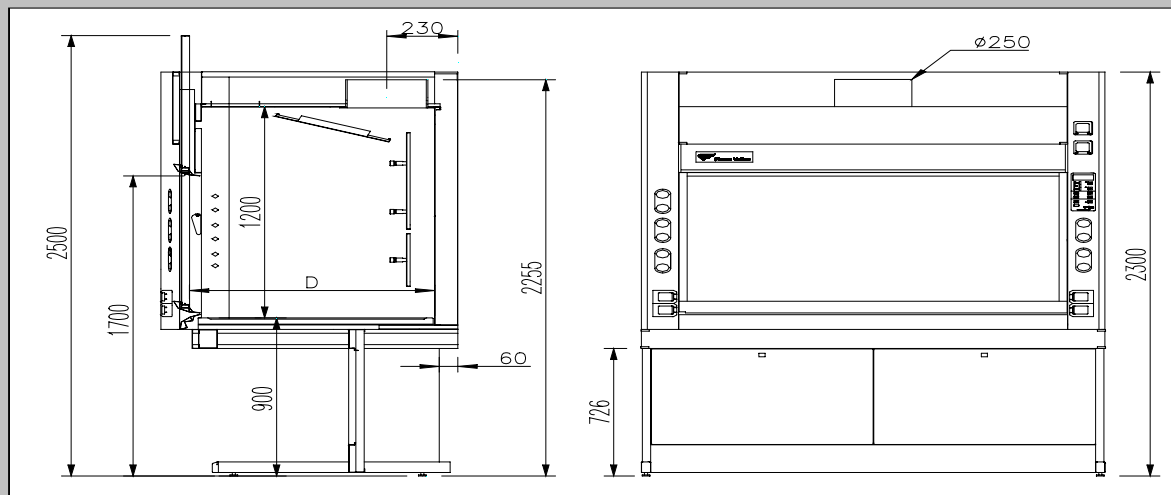
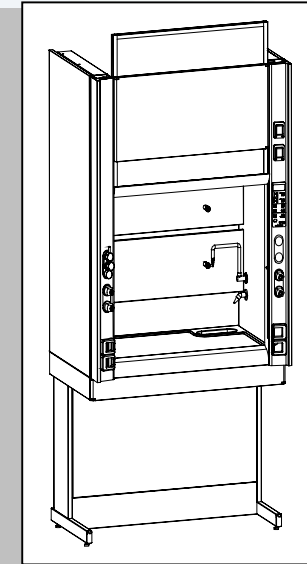
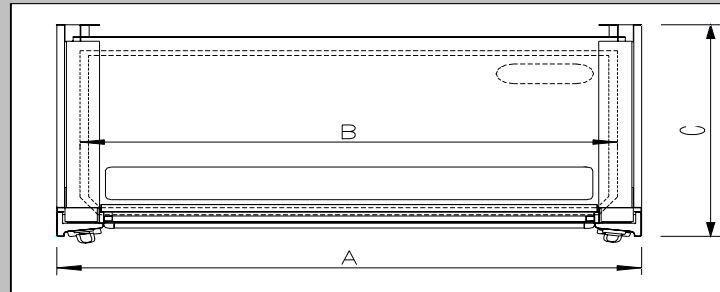
FUME CUPBOARD of (mm.):

	Length		
A	1200	1500	1800
B	1080	1380	1680

	Depth
C	960
D	755

Height
2300-2500

Model	Cupboard LZW - LAB
VA120960	600 + 600
VA150960	600 + 900
VA180960	900 + 900



SAFER FIXTURES

- Great performance against fire (classified M0)
- Great quality of suction flow with low turbulence inside
- More visibility inside
- New aerodynamic pull handle
- New airflow Safety Control Monitor with messages, separated alarms for reduction in suction flow and overheating situations, and two levels for overheating alarm
- Antiexplosion top (lighting)
- Fume hood instruction label

New design and aesthetic line

- Self-supporting upper body, with service fixtures on it. Independent lower body
- Inside cabin more illuminated
- Bigger sash viewing and opening (780mm)
- Easier access and manipulation to service fittings
- Aerodynamic design and soft lines
- Maximized space on worktop (service column of 60mm)
- Higher back panel to optimized space on worktop
- Nozzles and drip cup in the corner to maximized worktop surface



Maximized interior space

- Maximized space on worktop (service column of 60mm)
- Higher back panel to optimized space on worktop
- Nozzles and drip cup in the corner to maximized worktop surface