Standard fume cabinets

Fume cabinets are strongly recommended for applications using hazardous and/or volatile products. When air needs to be confined :

- Solvent cleaning (MEK, acetone…)
- Fumes emenating from machines,
- Aerosol application,
- Handling chemicals,
- Varnishing or potting,
- Tinning
- Applicaton giving off very fine particles (<0.3m microns)
- Etc.

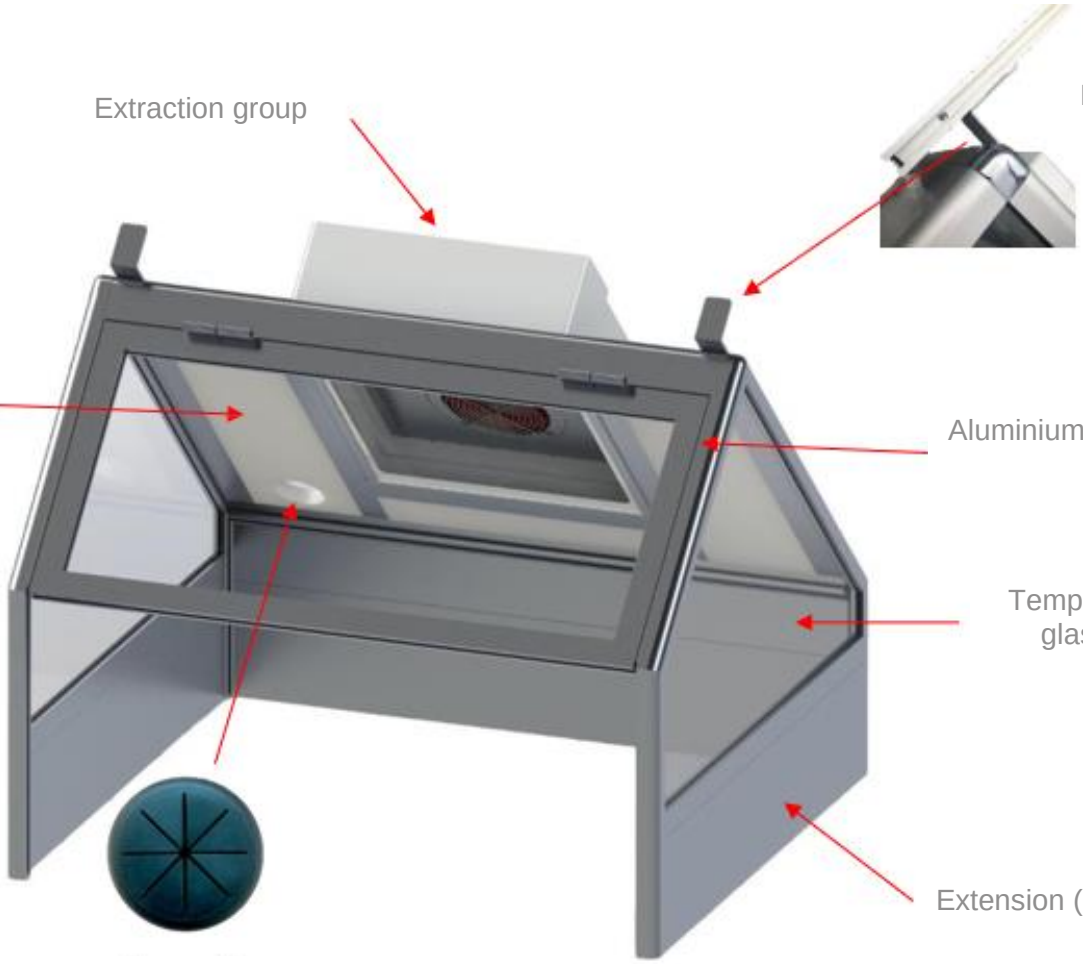
Our standard, removable and easy-to-move cabins can be installed on a desk and receive a retention bin for hazardous products (optional).

Equipped with an extraction unit in single-station version or two units in double-station version, they allow two configurations :

- Filtration of pollutants for internal recirculation of air
- External discharge by connecting a drain hose to the back of the booth

As an option, a more powerful motor (600 m3/h) can be proposed for specific needs (dust filtration and/or external discharge)

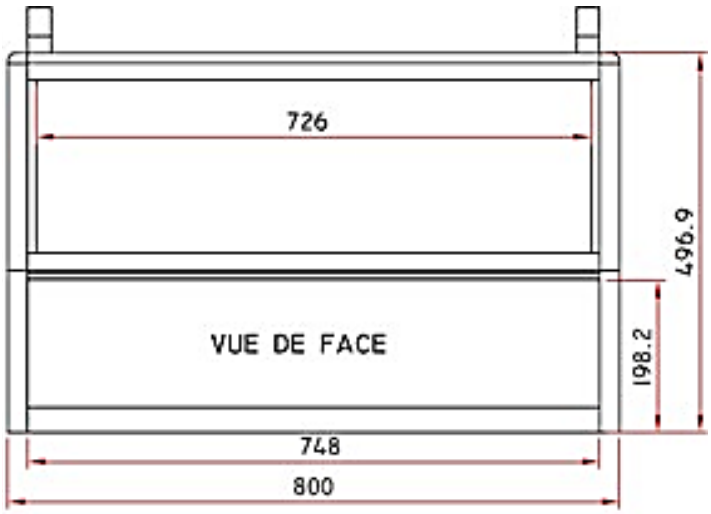
Made of aluminum, melamine and tempered glass, they guarantee robustness and durability in workshops and laboratories.

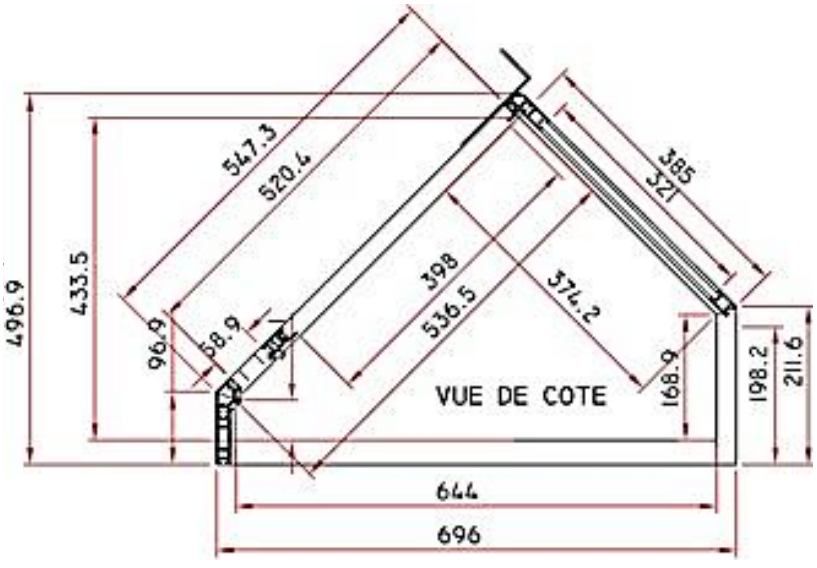


Extraction group:

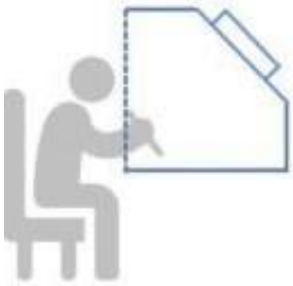
Our standard hoods are available in :

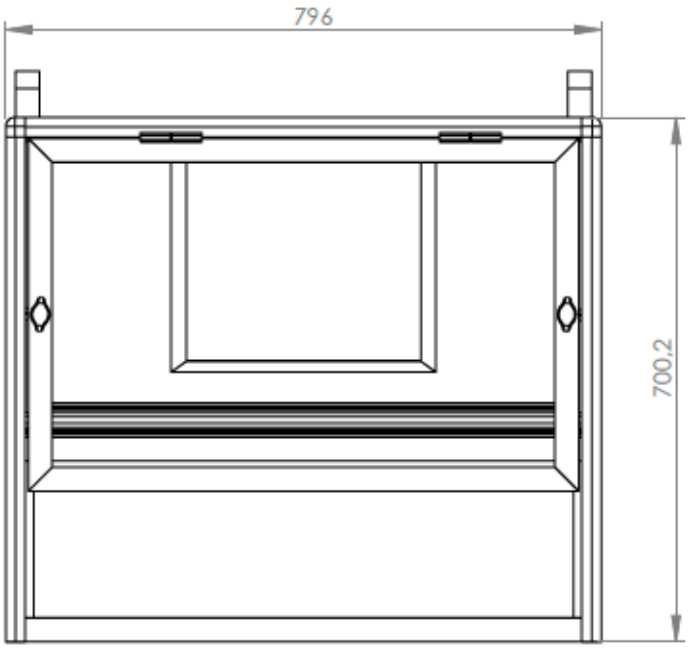
√ pyramidal (HI7VP) versions

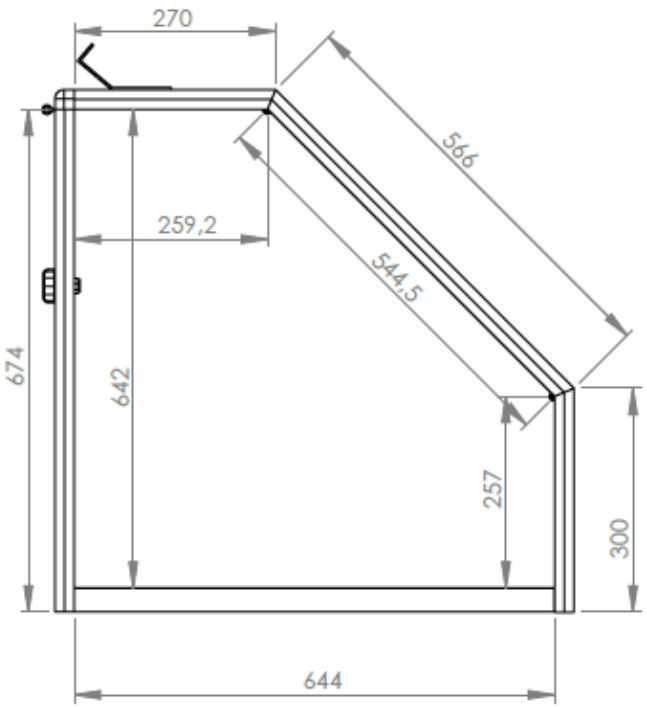




√ straight (HI5VP) versions







Single pyramidal cabins

HI7VP

Pyramidal hood with a hand clearance of 200 mm
Allows operating above the product thanks to the glass protection.

HI7VPR

Surelevated pyramidal hood offering a hands clearance of 340 mm
Allows operating above the product thanks to the glass protection
Lift-up door

Single straight cabinet

HI5VP

Open cabinet Width 800 mm

HI5VPC

Cabin with 2 panel sliding glass door or teflon bearings
Width 800 mm

HI5VPP

Cabinet lift-up door allowing a 200 mm hand clearance
Width 800 mm

HI5VPG

Cabinet with guillotine door with 5 working positions
Width 800 mm

PG

Guillotine door with 5 or 6 positions, PMMA glass
Compatible with HI5VP, HI5VPR, HI5VP DOUBLE, HI5VPR DOUBLE

Multi-station straight cabinet

HI5VP-1200-2GR

Open two-unit exhaust cab
Exterior width 1200 mm

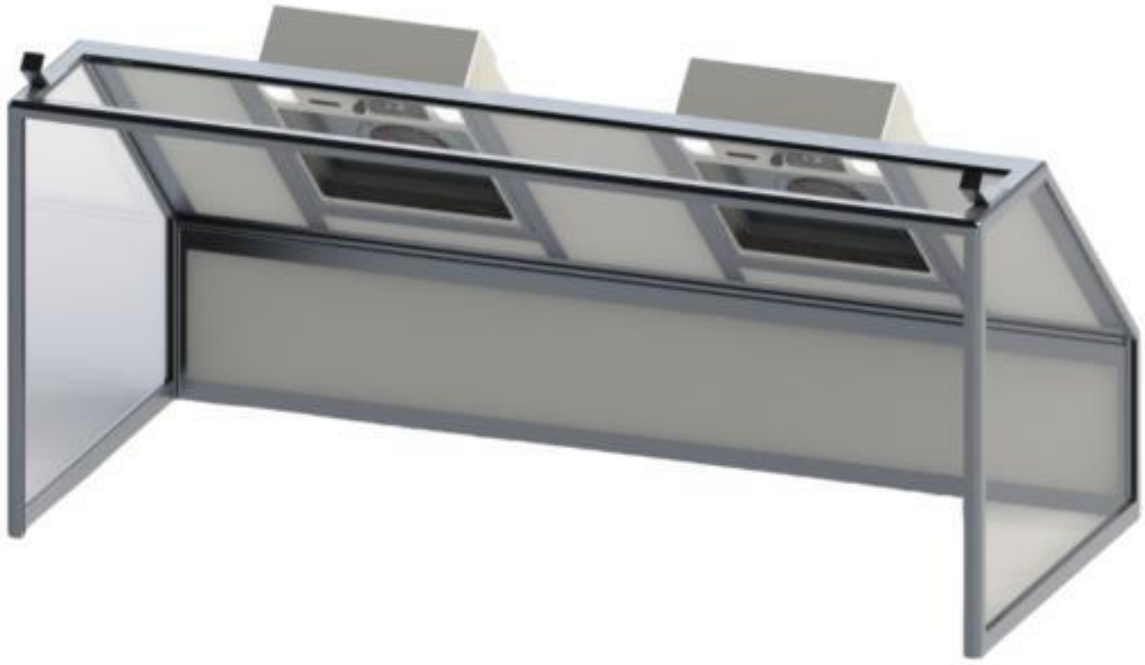
HI5VPP-1200-2GR

Cab with two suction units, 200 mm lift-up doors and 200 mm hand clearance
Exterior width 1200 mm

Multi-station straight cabinet

HI5VP double

Open cabinet with two suction units
Width 1572 mm

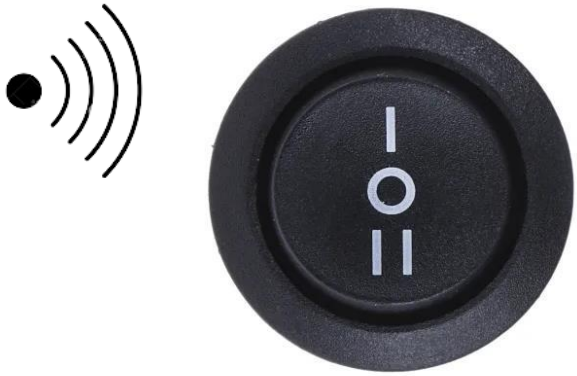


HI5VPP double

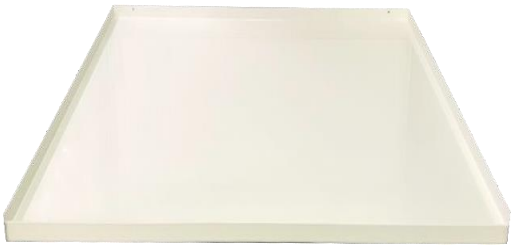
Cabinet with two suction units with lift-up doors, 200 mm hand clearance
Width 1572 mm

Options

Boosted unit
Maximum flow 600 m3 / h (instead of 450m3/h)



Option: Motion detection triggering



White lacquered steel retention tank
Dimensions: 740 X 650 X 20 mm

Workbend for single cabinet
RESITOP High thermal resistant laminate top
Thickness 40 mm
Overall dimensions : 1200 X 750 X 900 to 940 mm
With set of 4 adjustment cylinders

Suction box for HEPA filtration
HEPA H14 filter allowing a maximum 0.005% of 0.1 micron particles to pass
Nominal flow : 150 m3/h
Dimensions : 420 x 341 x 146 mm

Cabin type	Pyramid		Right						
	Monoposte		Monoposte			Multi-station			
Reference	**HI7VP**	**HI7VPR**	**HI5VP**	**HI5VPC**	**HI5VPP**	**HI5VP-1200-2GR**	**HI5VPP-1200-2GR**	**HI5VP-DOUBLE**	**HI5VPP-DOUBLE**
Dimensions External W x H x D	800 x 560 x 700	800 x 574 x 700	800 x 700 x 700			1200 x 700 x 700		1572 x 700 x700	
Door	Lift	Lift	-	Sliding	Lift	-	Lift	-	Lift
Hand Passage Height (mm)	200	340	674	-	200 (340 with Extension)	674	200 (340 with Extension)	674	200 (340 with Extension)
Number of groups d'extraction	1	1	1	1	1	2	2	2	2
Débit nominal maximum (m3/h) (* with reinforced group option)	450/600*	450/600*	450/600*	450/600*	450/600*	900/1200*	900/1200*	900/1200*	900/1200*
Light output	940 Lm	940 Lm	940 Lm	940 Lm	940 Lm	1880 Lm	1880 Lm	1880 Lm	1880 Lm
Net weight in kg	27	30	35	38	38	50	55	64	70
Packing weight in kg	37	40	45	48	48	60	65	74	80

Technical data

Technical data of the suction group	
Variable flow	50 to 450 m3/h (600*)
Power	80 W (110 W *)
Mains supply	230 V / 50 Hz
Noise at 1m	60 dB(A)
Maintenance	Periodic change of the filter
Outer rejection	Possible, Ø125 mm

(* with boosted group option)

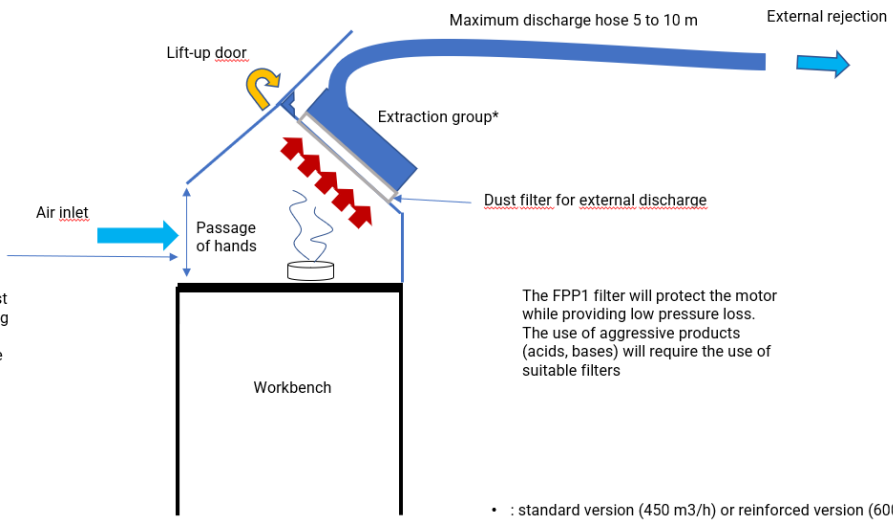
Choice of filters

Reference	Designation	Classification
PFP1	Protection pre-filter (pack of 10)	G3
PF3	Protection pre-filter (pack of 10)	M5
FPP1	Dust filter for external rejection	G4
FAP1	Particle filter for internal recycling	M5
FCP1	Activated carbon filter (solvent, gas and fume recycling)	N/A
FCP1 min	Mineral activated carbon filter for acetone	N/A
FCP1 blend	Activated carbon filter combined with potassium permanganate (Formol and other products)	N/A
FCP1-FT H2SO4	Active carbon filter impregnated with sulfuric acid for alcali adsorption	N/A
FCP1-FT KOH	Activated carbon filter impregnated with potash for acid adsorption	N/A
FHP1	High Efficiency Particulate Air filter	H14

Choice of the appropriate configuration

STANDARD FUME CABINETS

EXTERNAL REJECT CONFIGURATION
for all types of process



A small cabin opening surface will favor:
- a high air intake speed
- lower fan flow

It is important to design the smallest opening compatible with the working geometry:
- Liftable doors with hand passage
- Fixed bands
- Sliding doors
- French opening doors
- Glove box

The FPP1 filter will protect the motor while providing low pressure loss. The use of aggressive products (acids, bases) will require the use of suitable filters

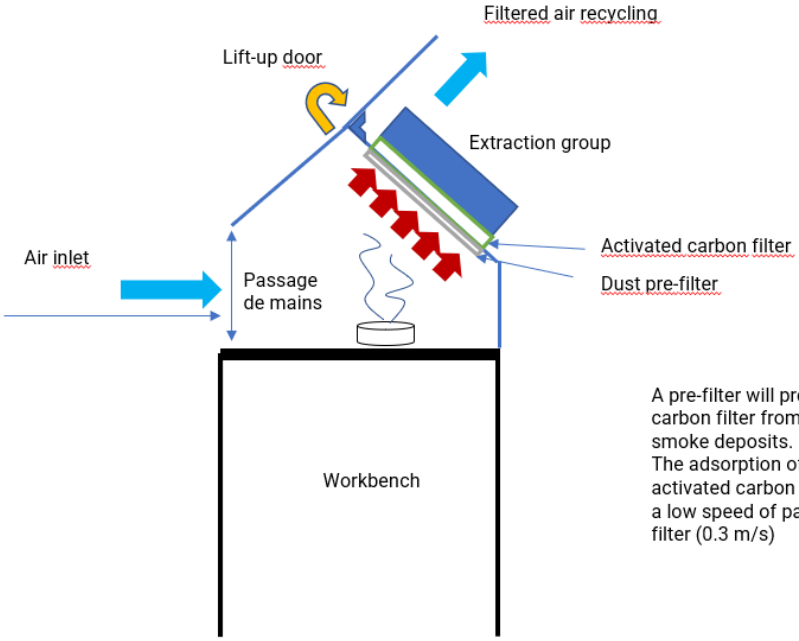
- : standard version (450 m3/h) or reinforced version (600 m3/h)

STANDARD FUME CABINETS

EXTERNAL REJECT CONFIGURATION
Example of process releasing particles + VOC (soldering, tinning, spraying, etc.)

A small cabin opening surface will favor:
- a high air intake speed
- lower fan flow
- better absorption by activated carbon

It is important to design the smallest opening compatible with the working geometry:
- Liftable doors with hand passage
- Fixed bands
- Sliding doors
- French opening doors
- Glove box



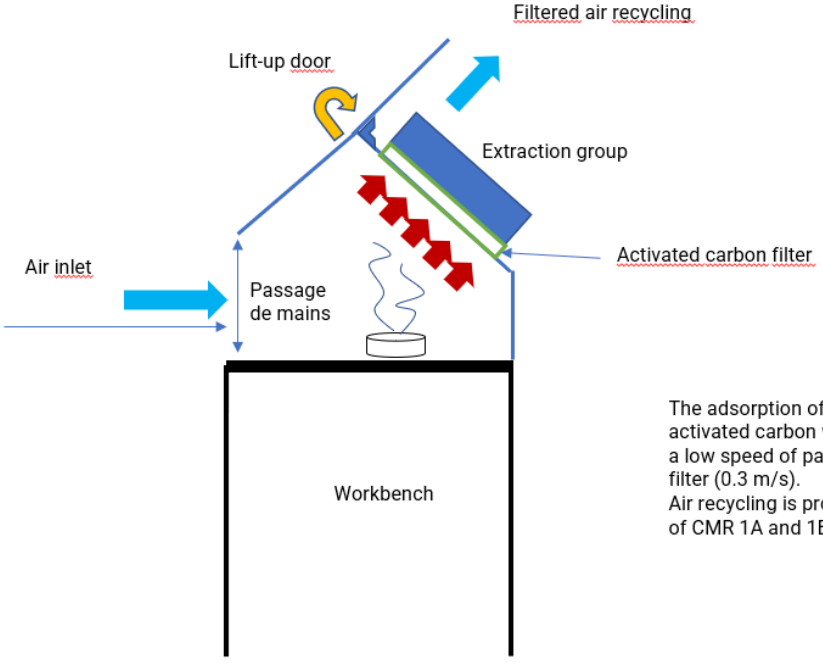
A pre-filter will prevent the activated carbon filter from being clogged by smoke deposits.
The adsorption of molecules by the activated carbon will be optimized by a low speed of passage through the filter (0.3 m/s)

STANDARD FUME CABINETS

INTERNAL RECYCLING CONFIGURATION
Example of process such as solvent, glue, chemical agents

A small cabin opening surface will favor:
- a high air intake speed
- lower fan flow
- better absorption by activated carbon

It is important to design the smallest opening compatible with the working geometry:
- Liftable doors with hand passage
- Fixed bands
- Sliding doors
- French opening doors
- Glove box



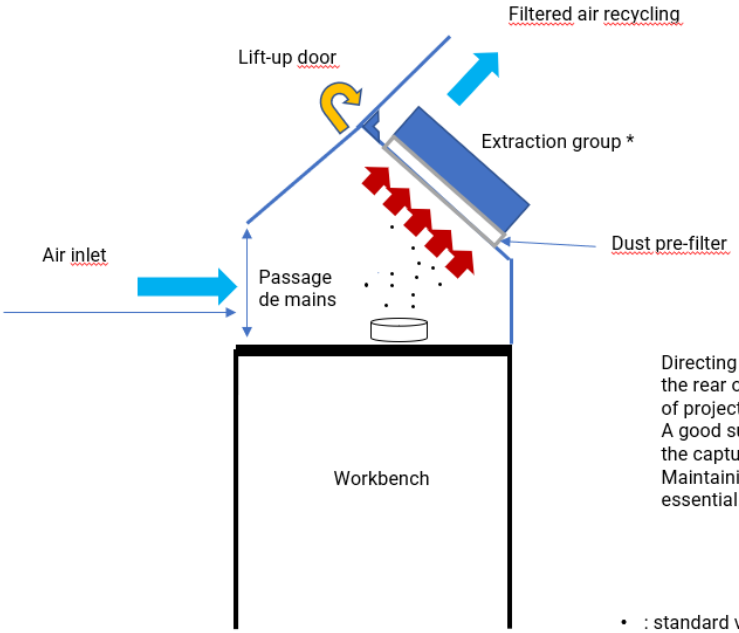
The adsorption of molecules by the activated carbon will be optimized by a low speed of passage through the filter (0.3 m/s).
Air recycling is prohibited in the case of CMR 1A and 1B products

STANDARD FUME CABINETS

INTERNAL RECYCLING CONFIGURATION
Example of process releasing particles (sanding, grinding, dust removal, etc.)

A small cabin opening surface will favor:
- a high air intake speed
- lower fan flow

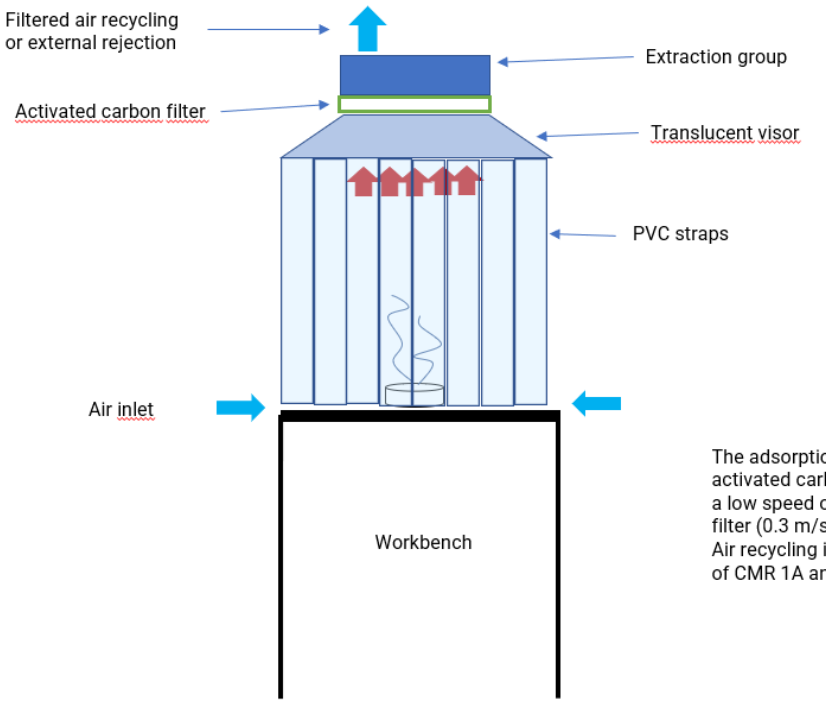
It is important to design the smallest opening compatible with the working geometry:
- Liftable doors with hand passage
- Fixed bands
- Sliding doors
- French opening doors
- Glove box



Directing the dust if possible towards the rear of the cabin will avoid the risk of projection from the front.
A good suction speed will promote the capture of dust and particles.
Maintaining an unclogged filter is essential.

- : standard version (450 m3/h) or reinforced version (600 m3/h)

HI9P OVERHEAD FUME HOOD
Example of process such as solvent, glue, chemical agents



The adsorption of molecules by the activated carbon will be optimized by a low speed of passage through the filter (0.3 m/s).
Air recycling is prohibited in the case of CMR 1A and 1B products