

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 emanating from machines,
- Aerosol application,
- Handling chemicals,
- Varnishing or potting,
- Tinning
- Application giving off very fine particles (<0.3m microns)
- Etc.

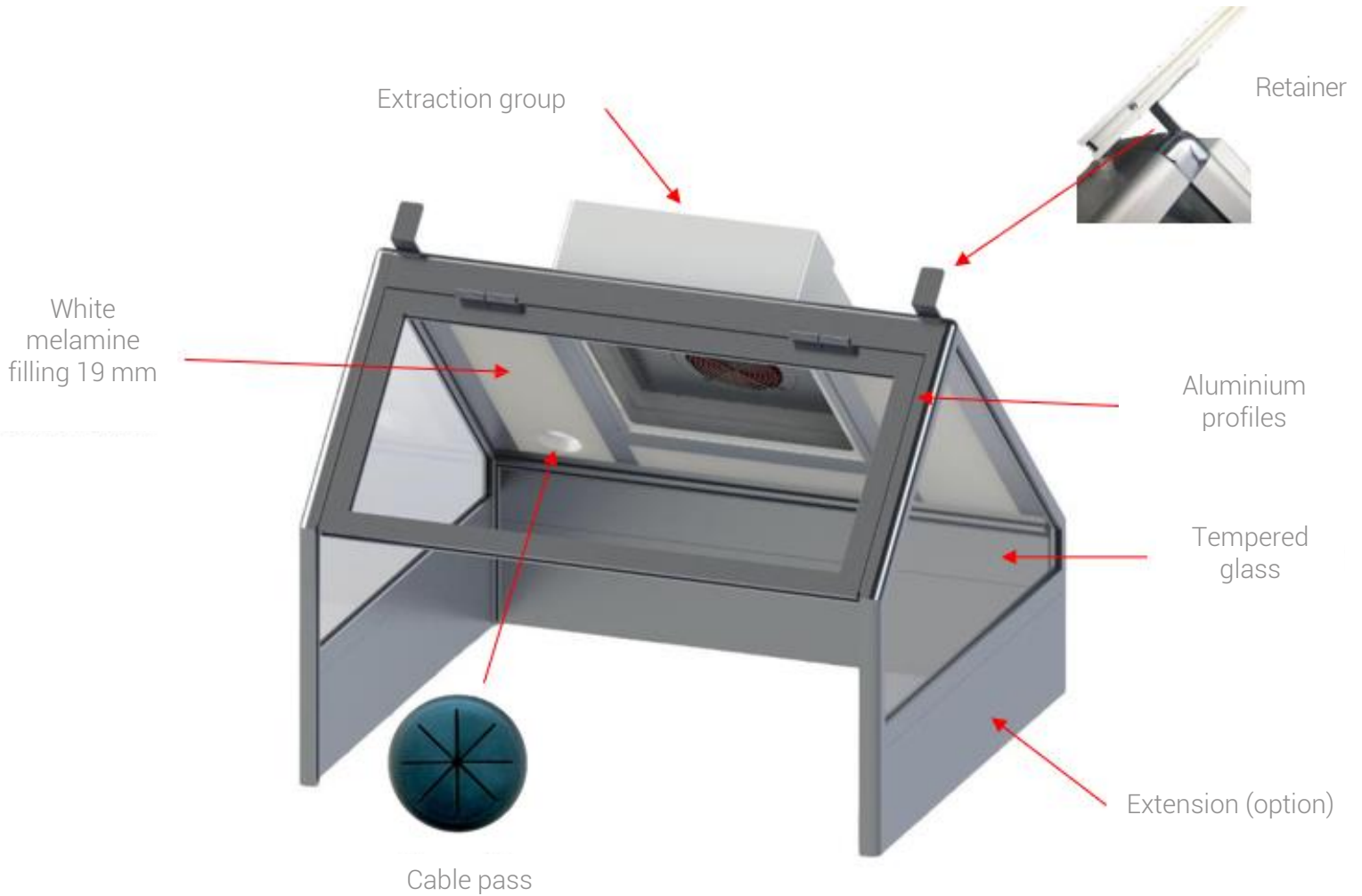
Our standard, removable and easy-to-move cabins can be installed on a desk and receive a retention bin for hazardous products (optional).

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.

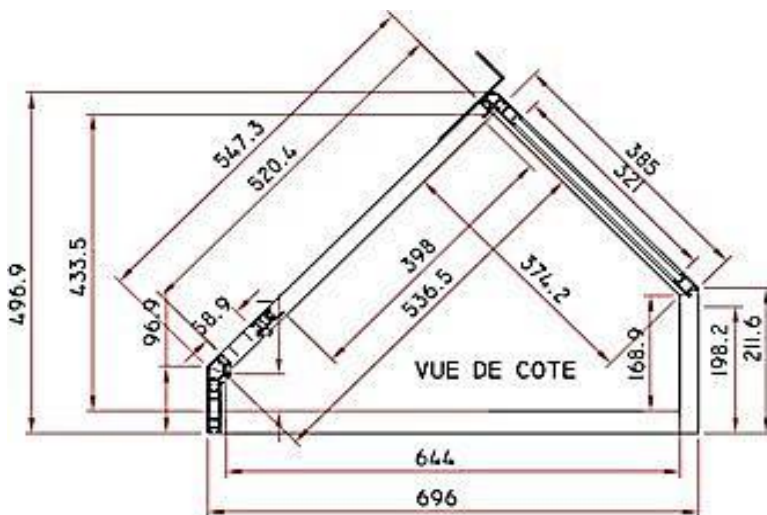
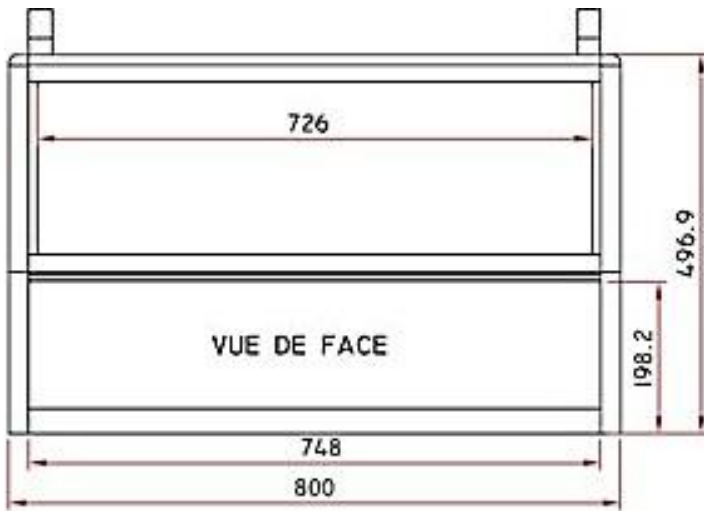


Extraction group:

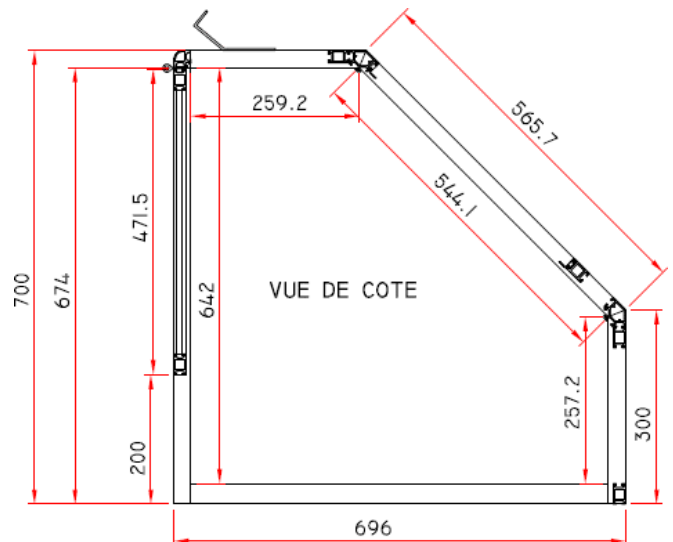
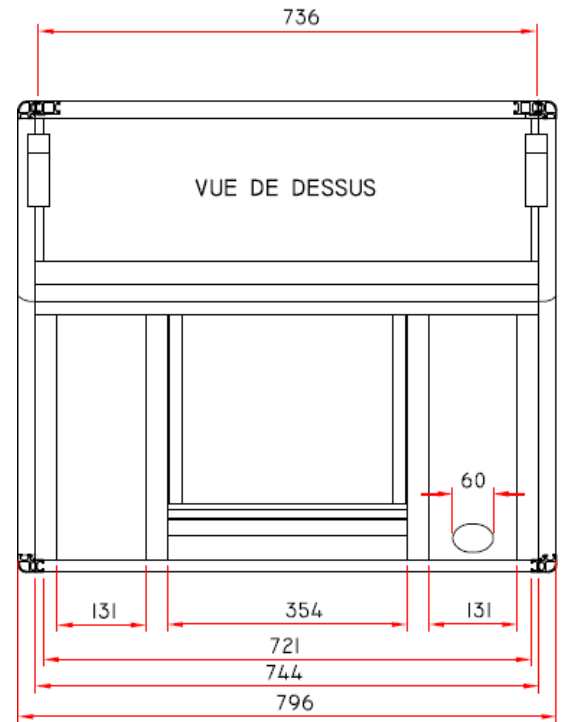
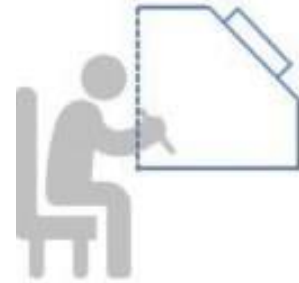


Our standard hoods are available in :

✓ 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



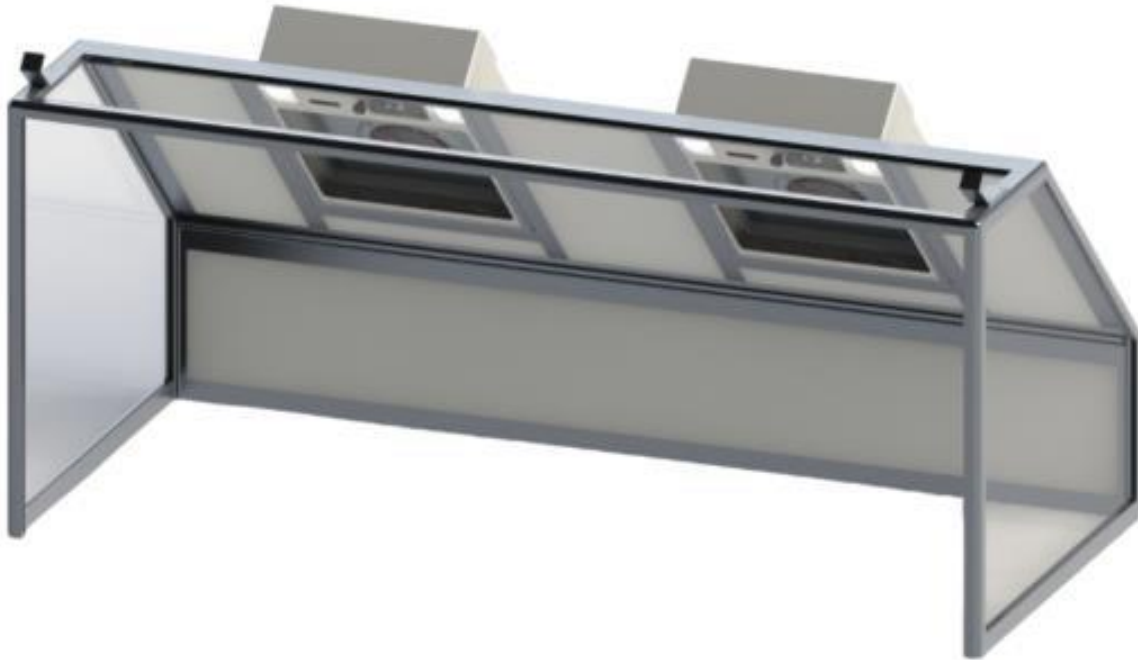
HI5VPP

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



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



Workbench 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	Pyramidal-shaped		Straight				
	Single		Single			Double	
Reference	HI7VP	HI7VPR et HI6VP	HI5VP	HI5VPC	HI5VPP	HI5VP Double	HI5VPP Double
External dimensions L x H x P	800 x 560 x 700	800 x 574 x 700	800 x 700 x 700			1572 x 700 x 700	
Door	Lift-up	Lift-up for HI7VPR	-	Sliding	Lift-up	-	Lift-up
Hands clearance (mm)	200	340	674	-	200	674	200
Number of suction groups	1	1	1	1	1	2	2
Maximum flow (m ³ / h) (* with boosted group option)	50 to 450/600*	50 to 450/600	50 to 450/600	50 to 550/600*	50 to 450/600*	50 to 900/1200*	50 to 900/1200*
Light flow	940 Lm	940 Lm	940 Lm	940 Lm	940 Lm	1880 Lm	1880 Lm
Net weight (kg)	27	30	35	38	38	64	70
Packing weight in kg	37	40	45	48	48	74	80

Technical data

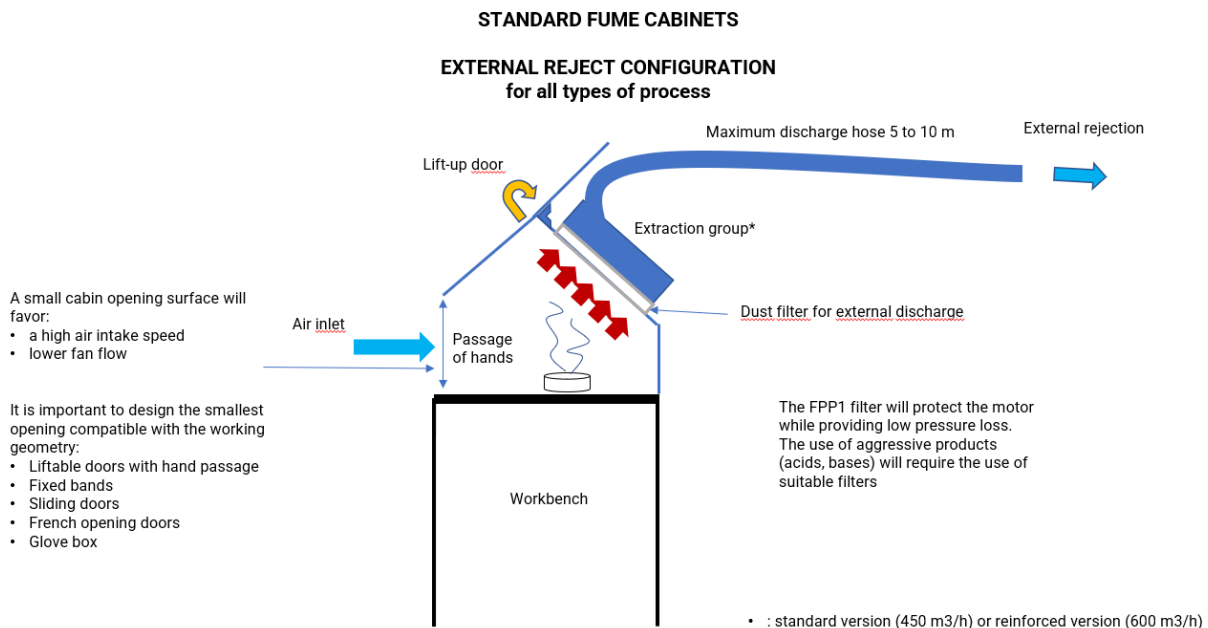
Technical data of the suction group	
Variable flow	50 to 450 m ³ /h (600*)
Power	80 W (110 W *)
Mains supply	230 V / 50 Hz
Noise at 1m	60 dB(A)
Maintenance	Periodic change of the filter
Outer rejection	Possible, Ø125 mm

(* with boosted group option)

Choice of filters

Reference	Designation	Classification
PPF1	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

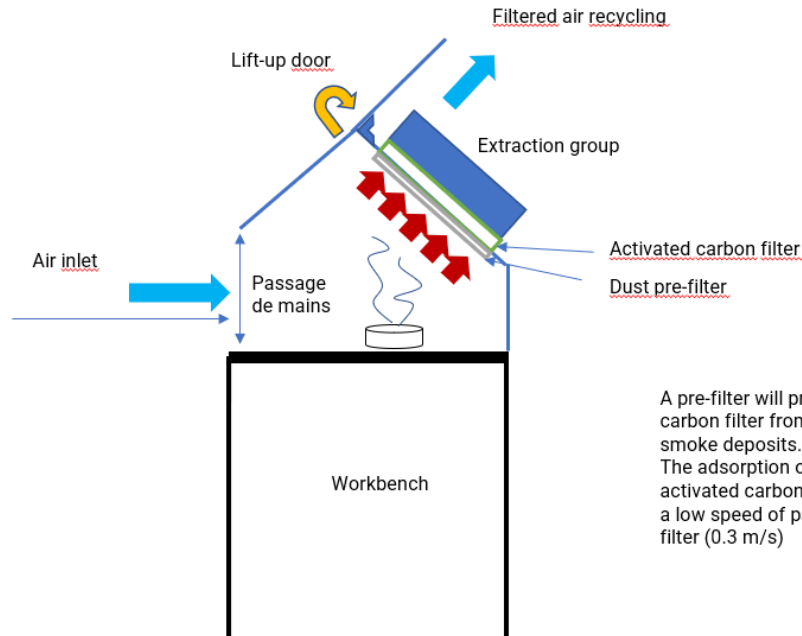
Choice of the appropriate configuration



STANDARD FUME CABINETS

EXTERNAL REJECT CONFIGURATION

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:

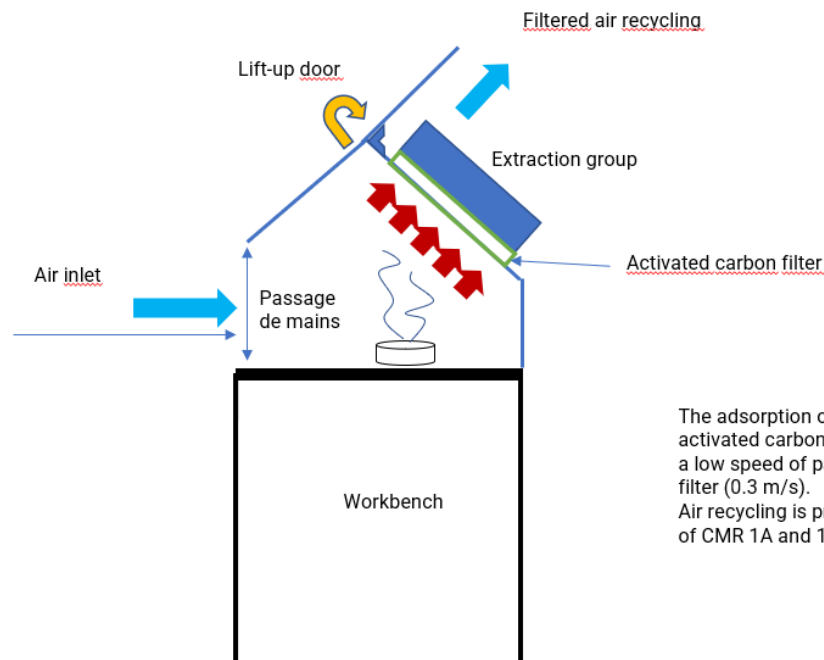
- Liftable doors with hand passage
- Fixed bands
- Sliding doors
- French opening doors
- Glove box

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



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- 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

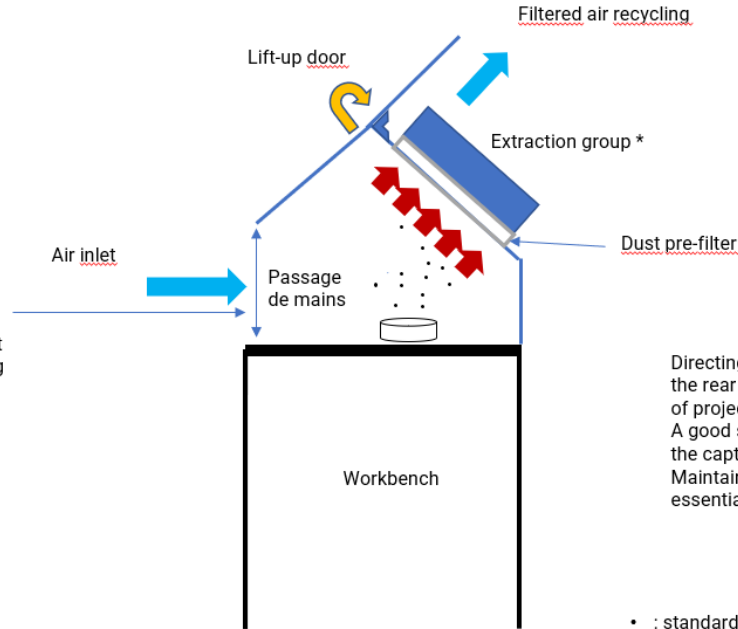
Example of process releasing particles (sanding, grinding, dust removal, etc.)

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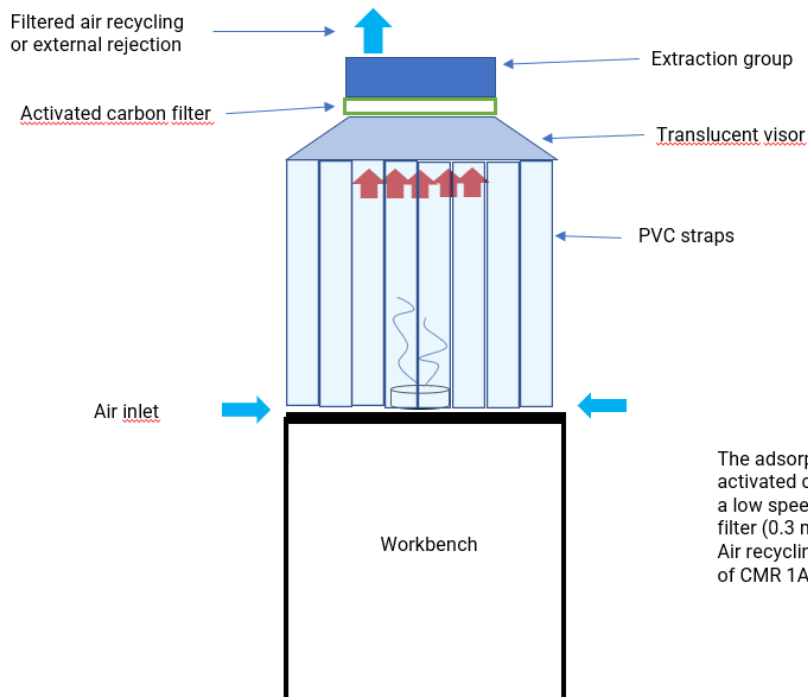


Directing the dust if possible towards the rear of the cabin will avoid the risk of projection from the front. A good suction speed will promote the capture of dust and particles. Maintaining an unclogged filter is essential.

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

HI9P OVERHEAD FUME HOOD

Example of process such as solvent, glue, chemical agents



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