



Flammables  
cabinets

Corrosives  
cabinets

Toxics cabinets  
and multirisk

Pesticide  
range

Exhausting  
systems

Retention and  
shelvings

Cans and anti-fire  
equipments

Douches et  
premiers secours

Edition  
01/2008



**NF X 15-211**  
class 2



# LABOPUR®

## FUME HOODS FOR CHEMICALS



### CERTIFICATION :

Fume hoods LABOPUR® were approved according to the NF X 15-211 standard, by a independant laboratory, MAPE, itself approved by the COFRAQ. The COFRAQ accreditation gives evidence of the technical skills of the test laboratory by the highest european certification organisation.



LABOPUR® fume hoods are controlled according to quality process and procedures defined by the repository of international quality standard ISO 9001-2000, at the end of the assembly line and before their shipping to the user in order to assure a perfect functioning and efficiency.



### MEAN VALUE OF EXHIBITION (V.M.E.) / VALUE EXHIBITION LIMIT (V.L.E.):

A chemical compound concentration in the air being able to be inhaled by a person during a determined duration without danger for his/her health is represented by a limit value (V.L.E.). Beyond this limit of time the user's health is in danger.

Mean Value of Exhibition (V.M.E.) : The V.M.E indicates the maximal concentration admitted for a given substance, in the workroom atmosphere where the user has to work on a 8 hours basis per day.

Value Exhibition Limit (V.L.E.): The V.L.E. indicates the maximal concentration admitted for a given substance, in the workroom atmosphere to which the user may be exposed for a short period of time, lower or equal to 15 minutes (unless other indications).

The National Research and Safety Institute (I.N.R.S.) publishes a technical memo (n° ED 984) on the edge values of professional exposure to the chemical agents. This document is available, free of charge, on their website at the following address: [www.inrs.fr](http://www.inrs.fr) and/or on our supplied manual's user CD-ROM.

### WHAT DOES ACTIVE CHARCOAL MEAN?

The active charcoal is a black powder with a porous structure. Manufactured from coconut shells, it has the property to occlude molecules emanating from dangerous products, due to the size of its micropores (less than 2µm).

Active charcoals manufacturing includes 2 steps:

- . 1st. step: High temperatures burning and carbonization of the ingredients.
- . 2nd. step: So called activation step, allowing to increase the coal absorption power.

Depending of the chemicals to be filtered, an "impregnation" can be added to improve the coal absorption ability. An impregnation for a given chemical can lead to an excellent absorption for a certain product but a disapointing result for another type of chemical.

After use, the coal powder may be cremated or regenerated by water steam treatment or acid or alkaline washes.

### HELP US TO PROTECT AND TO RESPECT THE ENVIRONMENT:

#### DO SOMETHING FOR THE ENVIRONMENT... RECYCLE YOUR FILTERS

If the fume hoods LABOPUR protects at most the health of the users and their direct environment it is necessary to protect and respect the environment to insure the active coal-based reprocessing and the elimination of your filters charged with the toxics which you treated.

Contact your dealer for more information.





**RANGE H** NF X15-211 class 2



## CLASS 2 LABOPUR® FUME HOODS FOR CHEMICALS



### ADVANTAGES

#### User's optimal protection:

- Our fume hoods have been approved within the standard NF X15-211 by an independent laboratory.
- Vapours are confined in the manipulation enclosure after being eliminated through the molecular filter.
- A front sampling outlet allows you a fast and reliable control of the filter saturation.
- A warning lamp located in facade insures you of the good functioning of the system of ventilation/filtration.
- The silent electric fans included in our hoods are in accordance with the EU specifications.
- A front control window indicates immediately if the filter is in place and well adapted to your work.
- A retention tank integrated under the work-top allows to get back liquids in case of accidental droppings.

#### Confort of use:

- The transparent walls sides of the fume hood offer an optimal lighting of the work-top and a direct sight of the working products.

- The ergonomic hand traps allow secure and easy manipulations in the enclosure.

- Protective caps allow you to insert power cables of your devices into the fume hoods.

- Silent fans within our hoods allow a higher concentration for your work.

- Easy replacement of the active coal-based filter. Few minutes are enough.

#### Save time and energy :

- Our hoods are delivered ready to use (no assembly required). All you have to do is to plug them to a power supply device.

- No connecting evacuation, no civil engineering needed (if the hood is fitted with a filter).

- It is not necessary to heat or cool the air within the workroom.

#### TECHNICAL DATA (see page 6)

- 15/10<sup>th</sup> steel construction.

- White epoxy painting RAL 9010 with high resistance against chemicals.

- Polycarbonate glazed walls.



## STANDARD EQUIPMENT

### TIMER

The standard timer supplied with your hood indicates you, all the time, the total use duration of your hood. After programming, every 60 hours, a sound alarm invites you to check the saturation of the active coal filter.



### AIR VELOMETER

According to the French standard NF X 15-211, your hood is supplied with an air velometer. It allows you to check permanently the velocity of the air in facade and verify that the fume hood works in depression guaranteeing the flow of vapours through the filter.



### SAMPLING OUTLET

A front sampling outlet gives you the opportunity to check quickly and in a reliable way the saturation level of your active charcoal filter, thanks to the manual pump and reactive tubes.



### ABSORBED PRODUCTS BOOKLET

Following the standard NF X 15-211, your hood is delivered with a CD-Rom information guide regarding the absorption capacity of the active coal filter in relation with various chemicals.



### PROTECTIVE CAPS

All of our fume hoods are equipped with protective caps allowing to easily insert power cables supplies or gas for instance.



### TRANSPARENT WALLS

Our fume hoods are delivered with transparent walls on every face offering you a light work surface. Suitable for exhibitions.



### WORK-TOP

A work-top is supplied with every fume hood. Manufactured in H.P.L., it offers an excellent resistance to chemical attacks. A tempered glass work top is optional.



### RETENTION TANK

A retention tank is placed under each work-top being part of the fume hood. In case of leak or of accidental reversal, treated liquids are retained. To clean it, you just need to lift the work-top and use an "absorbent".

## OPTIONAL EQUIPMENTS

### ACTIVE COAL FILTERS

Our filters are made with the best active charcoal. In order to offer the best guarantees, the quality of filters absorption was tested and approved by an independent laboratory. Every active coal filter is provided with a double anti-dust filter to insure an optimal filtration quality. Your health is protected. We offer you 2 filter types: one dedicated to organic vapours and one for corrosive vapours.



"Absolute filters" are also available (HEPA-H14). We are able to propose you specialized filters adapted, for instance, for the formaldehyde manipulation. Do not hesitate to contact your dealer for any specific request.



### FILTERALARM

The optional Filteralarm gives you the opportunity, thanks to an electronic device, to measure the air velocity and so, allows and warns you in case the filter sealing or any disfunction of the air stream with a sound alarm.



### MANUAL PUMP AND REACTIVE TUBES

TAKE CARE OF YOUR HEALTH ! Check your active coal filter saturation thanks to the manual pump and reactive tubes. We offer you a wide range of reactive tubes depending on your products used.



### TEMPERED GLASS WORK-TOP

Willing to treat extremely aggressive products? Choose a tempered glass work-top instead of a H.P.L. top (in standard within the LABOPUR hoods).



### LIGHTING

We offer you a multi-direction lighting setting within your hood to enlighten your working area. It's all for your comfort.

### LABOPUR® TROLLEY

For a better mobility or to clear your draining board you can put your hood on a trolley. It is equipped with a removable shelf. This solution allows you to accommodate your laboratory in more practical way, thus increasing your efficiency.





# RANGE H NF X 15-211 class 2



H200

H300

H400

<i>External dimensions (mm)</i>	H	980	720	980
	W	600	800	800
	D	620	620	620
<i>Internal dimensions (mm)</i>	H	700	440	700
	W	577	777	777
	D	580	495	580
<i>Internal volume of enclosure</i>		0,23 m <sup>3</sup>	0,17 m <sup>3</sup>	0,32 m <sup>3</sup>
<i>Average face velocity</i>		0,5 m/s	0,5 m/s	0,5 m/s
<i>Nominal voltage</i>		220-240 volts	220-240 volts	220-240 volts
<i>Power input</i>		47 watts	47 watts	47 watts
<i>Amps absorbed</i>		0,1 A	0,2 A	0,2 A
<i>Sound level</i>		43 dB(A)	49 dB(A)	49 dB(A)
<i>Retention tank</i>		included	included	included
<i>HPL work-top</i>		included	included	included
<i>Tempered glass work-top</i>		PL20	PL34	PL40
<i>Air velometer</i>		included	included	included
<i>Protective caps</i>		2	2	2
<i>Absorbed products booklet</i>		included	included	included
<i>Timer</i>		included	included	included
<i>Sampling outlet</i>		included	included	included
<i>Transparent walls</i>		included	included	included
<i>Labopur® trolley with removable shelf</i>		TR20	TR34	TR40
<i>Lighting</i>		LU20	LU34	LU40
<i>Manual pump</i>		PMAF	PMAF	PMAF
<i>Reactive tubes</i>		contact-us	contact-us	contact-us
<i>Active charcoal filter for organic vapours</i>		ORG200	ORG300	ORG400
<i>Active charcoal filter for corrosive vapours</i>		COR200	COR300	COR400
<i>Absolute filter HEPA - H14</i>		HEP200	HEP300	HEP400

The manufacturer keeps the right to modify technical characteristics without notice. Edition 01/2003.

# RANGE H

# NF X 15-211 class 2



H500	H1300	H1500	H2300	H2500	H3500
1200	1200	1200	1200	1200	1200
900	1000	1000	1300	1300	1600
740	740	740	740	740	740
920	920	920	920	920	920
877	977	977	1277	1277	1577
700	700	700	700	700	700
0,50 m <sup>3</sup>	0,68 m <sup>3</sup>	0,68 m <sup>3</sup>	0,90 m <sup>3</sup>	0,90 m <sup>3</sup>	1,10 m <sup>3</sup>
0,5 m/s	0,5 m/s	0,5 m/s	0,5 m/s	0,5 m/s	0,5 m/s
220-240 volts	220-240 volts	220-240 volts	220-240 volts	220-240 volts	220-240 volts
94 watts	47 watts	94 watts	47 watts	94 watts	94 watts
0,4 A	0,2 A	0,4 A	0,2 A	0,4 A	0,4 A
51 dB(A)	49 dB(A)	51 dB(A)	49 dB(A)	51 dB(A)	51 dB(A)
included	included	included	included	included	included
included	included	included	included	included	included
PL50	PL135	PL135	PL235	PL235	PL335
included	included	included	included	included	included
2	4	4	4	4	4
included	included	included	included	included	included
included	included	included	included	included	included
included	included	included	included	included	included
included	included	included	included	included	included
TR50	TR135	TR135	TR235	TR235	TR335
LU50	LU135	LU135	LU235	LU235	LU335
PMAF	PMAF	PMAF	PMAF	PMAF	PMAF
contact-us	contact-us	contact-us	contact-us	contact-us	contact-us
ORG500	ORG1300	ORG1500	ORG2300	ORG2500	ORG3500
COR500	COR1300	COR1500	COR2300	COR2500	COR3500
HEP500	HEP1300	HEP1500	HEP2300	HEP2500	HEP3500

Flammables cabinets

Corrosives cabinets

Toxics cabinets and multirisk

Pesticide range

Exhausting systems

Retention and shelving

Cans and anti-fire equipments

Showers and first-aid equipments

The manufacturer keeps the right to modify technical characteristics without notice. Edition 01/2008.



## WALL MOUNTED OR STACKABLE FILTERING VENTILATION CABINET



### PURPOSE

This cabinet is specially designed for storage of dangerous products in laboratories and may be:

- fixed to the wall when space is limited,
- or settled on a bench or a low piece of furniture.

### CONFORMITY

- Large warning labels in compliance with: ISO 3864, 92-58/CEE European directive and NF X08.003 norm.
- Fan in compliance with ISO 5801, AMCA 210-85 and CE marking.
- In compliance with the health regulation articles (5162 and 5170).
- Tested and certified GS by MPA DRESDEN laboratory.

### ADVANTAGES

- Possibility to separate dangerous products by families (in compliance with The National Institute of Health and Safety at work).
- Independent cabinet ensuring your security.
- Elimination of dangerous vapours.
- No need of connection to an exhausting system. No modification of building's structure required.
- Easy sight of the stored products.
- High efficiency active coal filter treated in accordance with the stored products.
- Easy replacement of the active coal filter.
- Perforated shelves allowing liquids flow in case of leak.
- Removable base trough for easy cleaning.

### TECHNICAL SPECIFICATIONS

- Built in steel 12/10th.
- White epoxy paint RAL 9010.
- Storage in 3 different compartments:

#### 1 "Toxic" compartment (except AF11 model):

- Handling door.
- Key-locking system.
- Normalized « Toxic » warning label.

#### 2 "Chemical products" compartment:

- Polycarbonate sliding glazed doors.
- Key locking system.
- 2 perforated adjustable shelves (1 per compartment).
- 2 removable retention tanks (1 per compartment).

#### « Vent / filtration » compartment (except AF11 model):

- Noiseless fan: 220 volts - 50 Hz; Flow 80m<sup>3</sup>/ hour; Protection IP 24; Sound level 52,3 dB(A) - 61,6 dB.
- Key locking system.
- Air outlet Ø 75 mm.

### OPTIONS

- Active coal filter: the cabinets are delivered without active coal filter. You have to choose one in the chart below in accordance with the type of products you are storing.

#### For other options please contact us:

- Filteralarm: allows to detect the saturation level of the active coal filter or any air defaults (ref. SFA).
- Dust pre-filter (ref. PFF10).
- Special legs.
- Industrial absorbent mat.
- Also available without ventilation/filtration system and "Toxic" compartment (ref. AF11).

**CAUTION!** The active coal filter **must be changed** at least once a year.

To connect	Reference			Description	Dimensions H x W x D (mm)	Number of shelves	Number of base troughs	Storage capacity (bottles) 1 L or 2,5 L	W. (kg)
	Standards	Organics	Corrosives						
AF10	AF10 + CDF-F15	AF10 + CDF-F20	AF10 + CDF-F35	Cabinet with ventilation system	External 850 x 810 x 325 Internal (2x) 535 x 385 x 275 (1x) 250 x 300 x 305	2	2	41 or 8	50
AF11	-	-	-	Cabinet without ventilation system	External 550 x 810 x 325 Internal (2x) 535 x 385 x 275	2	2	36 or 8	35