









LABOPUR®

FUME HOODS FOR CHEMICALS

without notice. Edition 01/2008.

The manufacturer keeps the right to modify technical characteristics

RANGE H NF X 15-211 class 2 🛕 🛕











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 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: 5o 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 X.15-211 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 functionning 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
- 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)

- 15/10th steel construction.
- White epoxy painting RAL 9010 with high resistance against chemicals.

The manufacturer keeps the right to modify

Polycarbonate glazed walls.



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

RANGE H NF X 15-211 class 2 🛕 🛕











STANDARD EQUIPMENT



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

According to the French standard NF X

15-211, your hood is supplied with an air

velometer. It allows you to check perma-

nently the velocity of the air in facade and

verify that the fume hood works in depres-

sion guaranteeing the flow of vapours



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 revearsal, treated liquids are retained. To clean it, you just need to lift the work-top and use an "absorbent".

SAMPLING OUTLET

through the filter.

AIR VELOMETER

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.



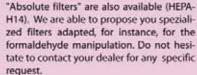
ABSORBED PRODUCTS BOOKLET

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.

OPTIONAL EQUIPMENTS



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.



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 accomo-

date your laboratory in more pratical way,

LABOPUR® TROLLEY

thus increasing your efficiency.



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

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 extremly agressive products? Choose a tempered glass worktop 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.





RANGE H

NF X 15-211 class 2











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







		H200	H300	H400
External dimensions (mm)	H W D	980 600 620	720 800 620	980 800 620
Internal dimensions (mm)	700 577 580	440 777 495	700 777 580	
Internal volume of enclosure		0,23 m ³	0,17 m ³	0,32 m ³
Average face velocity		0,5 m/s	0,5 m/s	0,5 m/s
Nominal voltage		220-240 volts	220-240 volts	220-240 volts
Power input		47 watts	47 watts	47 watts
Amps absorbed		0,1 A	0,2 A	0,2 A
Sound level		43 dB(A)	49 dB(A)	49 dB(A)
Retention tank		included	included	included
HPL work-top		included	included	included
Tempered glass work-top		PL20	PL34	PL40
Air velometer	Air velometer			included
Protective caps		2	2	2
Absorbed products booklet		included	included	included
Timer		included	included	included
Sampling outlet		included	included	included
Transparent walls		included	included	included
Labopur® trolley with removable she	Labopur® trolley with removable shelf		TR34	TR40
Lighting	Lighting			LU40
Manual pump		PMAF	PMAF	PMAF
Reactive tubes		contact-us	contact-us	contact-us
Active charcoal filter for organic vapou	rs	ORG200	ORG300	ORG400
Active charcoal filter for corrosive vapo	urs	COR200	COR300	COR400
Absolute filter HEPA - H14		HEP200	HEP300	HEP400

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

NF X 15-211 class 2













RANGE H











H500	H1300	H1500	H2300	H2500	H3500
1200 900 740	1200 1000 740	1200 1000 740	1200 1300 740	1200 1300 740	1200 1600 740
920 877 700	920 977 700	920 977 700	920 1277 700	920 1277 700	920 1577 700
0,50 m ³	0,68 m ³	0,68 m ³	0,90 m ³	0,90 m ³	1,10 m ³
0,5 m/s					
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

Pesticide

RANGE 12













WALL MOUNTED OR STACKABLE FILTERING VENTILATION CABINET

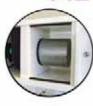
Specialized active coal filter

Perforated

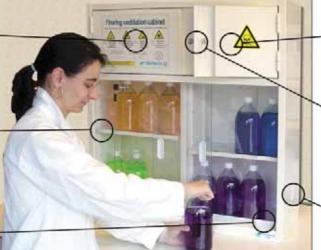
adjustable

in height

shelves









compartment



Removable base trough





Opening vents

The manufacturer keeps the right to modify technical characteristics without notice. Edition 09/2007

PURPOSE

This cabinet is specialy 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.

- 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 C€ 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):

- 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 80m3/ 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.

Reference		Dimensions	Number	Number of base	Storage capacity (bottles)	W.			
To Filtering ventilation		Description H x W x D							
connect	Standards	Organics	Corrosives		(mm)	of shelves	troughs	1 L or 2,5 L	(kg)
AF10	AF10 + CDF-F15	AF10 + CDF-F20	+	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

8