

**RANGE H****NF X 15-211 class 2**

# DUCTLESS FUME HOODS Labopur®

## NF X 15-211 - MAY 2009 - CLASS 2

### WHY SHALL WE USE AN ENCLOSURE WITH RECIRCULATING AIR FILTRATION SYSTEM?

When you are using chemicals, your health might be in danger due to the emanation of harmful and toxic vapors. To protect yourself and your close environment, you must manipulate your products in an enclosure using recirculating air filtration (formerly Enclosure for Toxics using Recirculating Air Filtration or ETRAF) equipped with a molecular filter or either particulate filter (HEPA filter) or both filters.

### WHY SHALL WE CHOOSE AN ENCLOSURE LABOPUR® WITH RECIRCULATING AIR FILTRATION?

Following its wide experience with safety cabinets and storage of dangerous products, ECOSAFE-leading manufacturer of safety cabinets-uses its entire technical knowledge to design and manufacture its fume hoods LABOPUR®. Made in EU, the ductless fume hoods LABOPUR® stand out by a high manufacturing quality and finition. The entire process being controlled with the European standard ISO 9001 -2008.

Ductless fume hoods LABOPUR® provides the user a secured work space for the repetitive manipulations of small chemicals quantities. The dangerous vapours are confined in the enclosure, then cleaned while entering the active charcoal filter. Finally, dangerous vapors are rejected in the atmosphere without danger for the environment. Thus, the user's health is protected.



▲ H122Z + BB12 + TR12 + 2 x (CORG201 + SH200 + HEP 200)



▲ H061Z + BB06 + CORG201 + SH200 + HEP200

### CERTIFICATION

Ductless fume hoods LABOPUR® were approved to the NF X 15-211 - may 2009 norm, by independent laboratories:

- The laboratory has approved the filtration part of the NF X 15-211.
- the containment part of the NF X 15-211 norm.
- **the** filter tightness and integrity testing (HEPA filter).

LABOPUR® ductless fume hoods are controlled according to quality process and procedures defined by the repository of international quality standard ISO 9001-2008, at the end of the assembly line and before their shipping to the user in order to assure a perfect functioning and efficiency.

The manufacturer reserves the right to discontinue or change specifications or designs at any time without notice and without incurring obligations. 03/2017

Flammable cabinets

Corrosive cabinets

Toxic cabinets and multirisk

Pesticide range

Fume hoods, filtering cabinets - Ventilation

Containment and Cans

Anti-fire equipments and File cabinets

Showers and first-aid equipments

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## NORMS

### NF X 15-211 French norm- may 2009:

NF X 15-211 French norm is the most demanding regulation today. It guarantees to the user a full safety allowing the user to focus on his manipulations.

Enclosures for toxic LABOPUR® using recirculating air filtration are classified according to 2 security levels :

- class 1: enclosure with safety reserve
- class 2: enclosure without safety reserve, the most common

Enclosures LABOPUR® using recirculating air filtration belongs to the class 2 :

- P type: particle filtration
- V type: vapors
- PV type: particle & vapors filtration

Ductless fume hoods LABOPUR® are recirculating air filtration enclosures from the class 2 which could be fitted, depending on the model, with filter for particles or for vapors or both.

To be in as per this standard, air filtration fume hood LABOPUR® have to meet multiple criteria (summary) :

- the enclosure must be provided with a ventilation device to maintain the air speed with a rate between 0,4 m/s and 0,6 m/s.
- rejection, downstream the filter, of 50% of the VLEP (occupational exposure limit value) of toxics treated in the enclosure in the duration of normal filter use.

- the enclosure must have been tested by an approved and independent laboratory.
- the class 2 enclosure have to be equipped with a sound or visual alarm activated every 60 working hours and also a sampling outlet device.
- the class 2 enclosures must not reject more than 50% of the VME downstream the filter during the detection test.



▲ H092Z + 2(CORG201 + HEP200 + SH200) (Bench not included)



NF X 15-211



### You will also find in this chapter :

Labopur® Ductless Fume Hoods	NF X 15-211 - may 2009	Range H
Labopur® Ductless fume hoods for powders	NF X 15-211 - may 2009	Range H
Labopur® Ductless fume hoods for dangerous powders and vapours	NF X 15-211 - may 2009	Range H
Labopur® Ductless fume hoods with external connection	NF X 15-211 - may 2009	Range H
Labopur® Ductless Fume Hoods and Storage Cabinets - PMSF	NF X 15-211 - may 2009	Range H
Laminar flow clean benches, vertical	EN 12469 - ISO 14644-1	Range H
Ductless fume hood and storage cabinet with recirculating air: PMSF	EN 12469 - ISO 14644-1	Range H
Labopur® Filtering Ventilation Safety Cabinets	NF X 15-211 - may 2009	Range 12.X
(Active coal filters absorption's capacity and filtration system tested and certified NF X 15-211)		
Labopur® Filtering Ventilation Safety Cabinets	NF X 15-211 - may 2009	Range 14.X
(Active coal filters absorption's capacity and filtration system tested and certified NF X 15-211)		
Ventilation Safety Cabinets		Range 12
Ventilation Safety Cabinets	EN 11470-1	Range 3030.x
Labopur® Recycling Air Box	NF X 15-211 - may 2009	Range H
(Active coal filters absorption's capacity and filtration system tested and certified NF X 15-211)		
Atex ventilation boxes « with filter option »	ATEX Zone II	Range V
Ventilation and filtration boxes	ISO 3744	Range V

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