DUCTLESS FUME HOODS labopur® NF X 15-211 MAY 2009 - CLASS 1 & 2

▲ H184G+2CH + BB18 + 8 x (CORG201) + 4 x (SH200 + HEP200) + SATORG

WHY SHALL WE USE A DUCTLESS FUME HOOD ?

When you handle chemicals, your health is at risk because of the emanation of harmful or even toxic vapors or powders. In order to protect yourself and your direct surrounding, you should handle your products in a ductless fume hood (formerly a filtered air recirculating toxic cabinet or FACC) equipped with either a molecular filter (or active charcoal filter), a particle filter (or HEPA filter), or a molecular filter and a particle filter.

WHY SHALL WE CHOOSE A labopur® DUCTLESS FUME HOOD?

ECOSAFE has 52 years' experience in the field of safety cabinets for the storage of hazardous products and puts all its know-how and technique in the manufacturing of its **labopur®** fume hoods.

labopur® fume hoods are manufactured in France based on processes and procedures defined according to the ISO 9001 version 2008 quality standard.
Moreover, our know-how has been successfully tested by independent French laboratories and control bodies according to the NF X 15-211 standard in its May 2009 version.

CERTIFICATION

The performances of **labopur®** filtration hoods have been evaluated according to the NF X 15-211 - MAY 2009 standard by French laboratories and control bodies for:

- Filtration tests.
- Containment tests.
- Leakage and integrity tests of the absolute filter (HEPA filter).

labopur® filtration fume hoods are manufactured according to quality processes and procedures defined in according to the international standard ISO 9001 version 2008, at the end of the production line and before shipment, in order to guarantee the user perfect operation and efficiency.

NFX 15-211 | CLASS 1 | CLASS 2 | CE | MADE IN EUROPE

STANDARD

Standard NF X 15-211 - May 2009:
The NF X 15-211 standard is the most demanding regulation currently in force. It guarantees the user enhanced safety, allowing him to concentrate on his work.
Toxic enclosures with filtered air recirculation are classified according to 2 safety levels:

Class 1: enclosure with safety reserve (2 active charcoal filters per filtration column)
Class 2: enclosure without safety reserve, the most commonly used enclosure (only 1 active charcoal filter per filtration column)

The NF X 15-211 standard also distinguishes 3 classifications according to the type of filtration, depending on the chemical agents filtered:

- Type P: for the filtration of particles (only for class 2).
- Type V: for the filtration of vapors (available for classes 1 and 2).
- PV type: for particle and vapor filtration (available for classes 1 and 2).

Labopur® ductless fume hoods are filtration chambers.
Depending on the model, class 1 can be equipped with one particle filter and two active charcoal filters, or with only two active charcoal filters per filtration column.
Class 2 can be equipped with one particle filter or one active charcoal filter, depending on the model, or with one particle filter and one active charcoal filter per filter column.
Labopur® fume hoods can be equipped with 1 to 4 filtration columns depending on the model.
In order to comply with this standard, Labopur® filtration fume hoods must meet various criteria (summary):

- the fume hood must be equipped with a ventilation device (continuous monitoring of the system) in order to maintain the air speed at a value between 0.4 m/s and 0.6 m/s (class 1 and class 2).
- the filtration system of the enclosure must not exceed a release concentration, downstream of the filter(s), of 50% of the Occupational Exposure Limit Value (OELV) of the toxic substance handled in the enclosure, and this for the duration of the detection operation
- the fume hoods must have been tested by an approved and independent laboratory.
- Class 2 fume hoods must have an audible or visual alarm triggered by a clock every 60 hours of operation and a sampling device.
- Class 1 fume hoods shall be equipped with an automatic monitoring and saturation detection device for the main active charcoal filter and a second active charcoal filter in reserve.
- Class 1 fume hoods must not discharge more than 1% of the TLV of the product handled downstream of the active charcoal filter during the detection operating time.
- Class 2 fume hoods must not discharge more than 50% of the OELV of the product handled downstream of the filter during the detection operating time.

NEW CLASSIFICATION OF DUCTLESS FUME HOODS IN ACCORDANCE WITH PREN 17242.

Classification into 3 parts as follows: X (general type of application) / Y (filter class) / Z (monitoring arrangement)

Details are given below.

X: General type of application :
Class A: RFFC with integrated filters;
Class B: RFFC with associated filters.

Y: Filters :
1: Particulate filter only;
2: Gas and vapour filter only;
3: particulate, gas and vapour filters;
4: Other filtration devices or arrangements, including those for RFFCs with internal filters.

Z: Filter monitoring devices :
0: no filter condition monitoring devices ;
1: integrated continuous filter condition monitoring devices applicable to the filter application. EXAMPLE

Examples of RFFC designations with integrated particulate and chemical filters and continuous monitoring of filter conditioning: Class A / 3 / 1 .

▲ H092Z+H2C + BV09 + 2 x (SH200 + HEP200) + 4 x (CORG201) + SATORG

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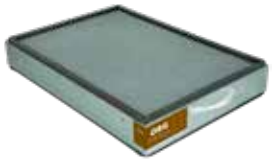
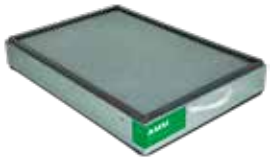
ACTIVE CHARCOAL AND PARTICLE FILTERS

ACTIVE CHARCOAL FILTERS

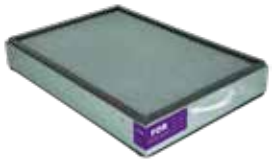
CORG201 ▲



ORG200 ▲



AMM200 ▲



FOR200 ▲

Active charcoal is a black powder with a porous structure that adsorbs the molecules emanating from the vapors of dangerous products through its micro pores of less than 2 µm.

Depending on the chemicals to be filtered, the active charcoal can be impregnated to improve its adsorption capacity. Impregnation for one chemical will lead to excellent adsorption for that chemical, but poor adsorption for another type of chemical.

Our filters are made from the best active charcoals. In order to offer the best guarantees, the adsorption quality of the filters has been checked and approved by an independent testing laboratory. Each filter is equipped with a double dust filter to ensure optimal filtration quality.

Several types of filters are available as standard:

- For corrosive and organic vapors type CORG
- For organic vapors type ORG
- For ammonia vapors type AMM
- For formaldehyde vapors type FOR

The CORG multipurpose active charcoal filters can adsorb the vast majority of products commonly used: corrosive products, organic compounds or solvents. This filter can therefore be used in most cases. We can also offer you specialised filters, impregnated, for example, for the handling of more specific chemicals. Contact us for all your special requirements.

HEPA H14 FILTERS AND HEPA FILTER HOLDERS

SH200 + HEP200 ▲

CAR200 ▲

A HEPA (High Efficiency Particulate Air) filter, also known as a THE (Very High Efficiency) filter, is a very high efficiency particulate air filter.
The filtration efficiency of HEPA filters is governed by the NF EN 1822 standard which defines 5 efficiency classes. A HEPA H14 filter, with the highest filtration efficiency, will stop 99.97% of particles with a diameter greater than or equal to 0.3 µm.

When handling powders, a HEPA filter should be used. We offer HEPA filters of class H14 in accordance to the NF EN 1822 standard and with the highest filtration efficiency. In order to receive a HEPA filter, your fume hood must be equipped with a filter holder type SH.

Your HEPA filter can be complemented with an active charcoal filter for maximum safety and filtration efficiency.
If you wish to use your fume hood only for powder filtration, you should buy a «Connection kit for use without active charcoal filter» type CAR.

N.B.: A fume hood can only be delivered to you if it has an active charcoal filter and/or a HEPA filter with a «Connection kit for use without active charcoal filter» type CAR if necessary.

NFX 15-211 | CLASS 1 | CLASS 2 | CE | MADE IN EUROPE

EQUIPMENTS

STANDARD EQUIPMENT

PROTECTIVE CAPS

Each hood is equipped with four protective caps to easily insert your electrical or gas cables, for example.

TRANSPARENT WALLS

Our hoods are supplied with robust transparent walls on all sides, giving you a bright working area. Practical for demonstrations. Made from a minimum of 75% recycled PMMA.

SOCKET FOR SAMPLING

A sampling port on the front of the fume hood allows you to quickly and reliably check the saturation of your active charcoal filter using the pump and reagent tubes

FILTRALARME 5 TOUCHSCREEN INTERFACE

- The filtralarme 5 controller uses an electronic circuit to measure the air flow speed (0.4- 0.6 m/s) and thus to detect and warn you of filter clogging or any air flow anomaly by means of an audible and luminous signal in accordance to the NF X 15-211 standard.
- The automatic airflow regulator (0.4-0.6 m/s) analyses the airflow speed in real time and checks that the hood is working at low pressure, guaranteeing that the vapors are confined to the work area and that the vapors pass through the filter.
- Hour counter (60 hours): an audible and luminous signal invites you to check the saturation of the active charcoal filter.
- New intuitive touchscreen interface with full functionality to make daily use of the hood easier.

MANDATORY EQUIPMENT

CHEMICAL SENSOR (CLASS 1)

Automatic E-detect active charcoal filter saturation detector (mandatory and only available for class 1), to be selected from the following compounds: ammonia vapors, corrosive+organic vapors, formaldehyde vapors or organic vapors. Ref. SATAMM, SATCORG, SATFOR, SATORG.

ACTIVE CHARCOAL FILTERS AND HEPA H14 FILTERS

Your Labopur NFX15-211 fume hood must be equipped with one (class 2) or two identical (class 1) active charcoal molecular filters per filtration column. It can also be equipped with an Hepa H14 filter. For use with Hepa filter only: choose a class 2 fume hood.

OPTIONAL EQUIPMENT

MELAMINE WORKTOP

Made of high density melamine, it offers excellent resistance to chemical attack. A glass worktop is also available if acids are used.

GLASS WORKTOP

Made of high density tempered glass, it offers excellent resistance to chemical attack.

LIGHTING

We propose to integrate an LED light in the enclosure so that it does not hinder your visibility. IP65 - 10W - 4200K - 710lm

CONTAINMENT SUMP

Under each work surface there is a containment sump that fits under the hood. In the event of a leak or spillage, the liquids handled are collected in this way. To clean the containment sump, simply lift and remove the worktop and use a suitable absorbent. This tray is supplied with the worktop of your choice.

MANUAL PUMP AND REACTIVE TUBES

Think about your health. Check the saturation of your active charcoal filter with a pump and reagent tubes (required for class 2 only). We can offer you a wide range of reagent tubes according to your products, just ask us!

NFX 15-211 CLASS 2 CE

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PRESENTATION OF THE RANGE (CLASS 2)

ADVANTAGES

Optimal protection of the user:

- Fume hoods according to NF X 15-211 - MAY 2009 by French laboratories and control bodies.
- CE certification. Electrical assembly complies with the requirements of the low voltage directive 2014/35/EU and EMC Directive 2014/30/EU.
- Equipment conforms to the requirements of IEC61010-1.
- Containment of vapors and powders in the handling enclosure and their elimination when they pass through the molecular filter or the HEPA filter.
- Front panel sampling port for quick and reliable control of filter saturation.
- Front indicator light to assure the user that the fume hood ventilation/filtration system is working properly.
- Quiet electric fans that meet CE specifications.
- Control window on the front of the unit shows immediately whether the filter is present and suitable for the job.

Time and energy savings:

- Fume hoods delivered ready to use (no assembly required).
- No connection or evacuation required, no civil engineering solution (if the hood is equipped with a filter).
- No need to heat or cool the air in the room as the air is recirculating.

Comfortable to use :

- Reinforced transparent walls on all sides providing optimal lighting of the work surface and immediate visualization of the products being handled.
- Ergonomically designed working opening for safe and easy handling in the enclosure.
- Covers for the insertion of the power supply cables.
- Very low noise level of the fans allowing increased concentration during work.
- Easy replacement of the active charcoal filter in just a few minutes.
- Our equipment is equipped with transparent translucent walls that are now 100% recyclable.

TECHNICAL CHARACTERISTICS

- Construction in 15/10th steel.
- Epoxy paint, white RAL 9010, blue 5015, highly resistant to chemicals.
- Reinforced glass walls in 6mm thick PMMA.
- Average air speed at the front of the unit: 0.5 m/s
- Voltage: 220-240 volts
- Electrical power: 35 W per ventilation column
- Intensity: 0.35 A
- Fan noise level (excluding air flow): 60 dB(A)
- Flow rate: 180 m3/h

STANDARD EQUIPMENT

- Touch screen
- 4 covers to supply fluid passages.
- Automatic air flow control and maintenance
- Hour meter
- Sampling port
- 4 transparent reinforced walls.
- FILTRALARME 5 interface with touch screen for operational management of the hood.
- Automatic air flow regulation
- 5 languages available: French - English - German - Spanish - Italian.
- Airflow and hour meter displayed simultaneously
- Indicators for filter installation date and type
- Main switch

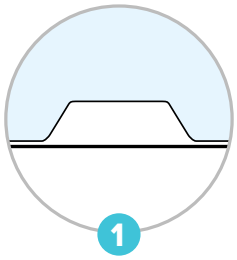
These hoods must be equipped with an active charcoal filter and/or a particulate filter and its support.

OPTIONS

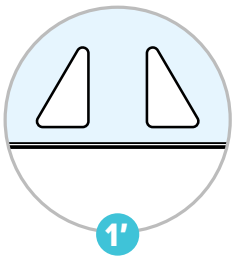
- Removable containment sump with the worktop to collect liquids in case of accidental spills + melamine or laminated glass worktop (highly recommended for use with acids).
- LED lighting positioned so as not to impede your visibility IP65 - 10W - 4200K - 710lm ref. LUMI
- Manual pump to determine the saturation of the filters: ref. PMAF.
- Reagent tubes :
  - Ref. TROR: Set of 10 «organic» reagent tubes
  - Ref. TRAC: Set of 10 «corrosive» reagent tubes
  - Ref. TROA: Set of 5 «organic» and 5 «corrosive» reagent tubes.

NFX 15-211 | CLASS 2 | CE | MADE IN EUROPE

▲H092Z+ BV09 + 2x(CORG201 + SH200 + HEP200)



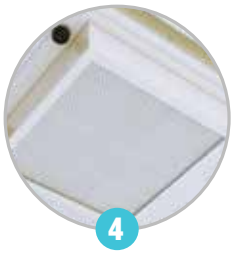
Trapeze working opening



2 hands working opening

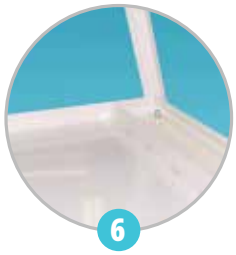
Melamine or glass tempered worktop

Touch screen
Hour meter
Air flow controller



Filter holder and HEPA filter (otpion)

Easy to replace filters



Removable containment sump

Socket for sampling

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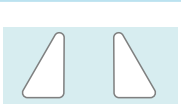
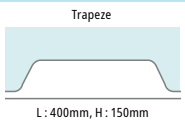
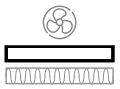
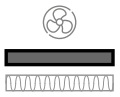
▲ H061D+ + BV06 + CORG201

H061D+ + BV06 + CORG201

H061D+ + BV06 + SH200 + HEP200 + CAR200

H061D+ + BV06 + CORG201 + SH200 + HEP200

NFX 15-211 | CLASS 2 | CE | MADE IN EUROPE

	H061D+	H061Z+
Working opening type		
Number of engines	1	
External dimensions W x D x H (mm)	600 x 650 x950	
Internal dimensions W x D x H (mm)	545 x 505 x 735	
Weight (kg)	41	
For liquid use only, to be chosen (mandatory) (1) : prEN 17242 : A/2 class		
Active charcoal filter(s) for organic vapors	ORG200 (11 kg)	
Active charcoal filter(s) for corrosive and organic vapors	CORG201 (12 kg)	
Active charcoal filter(s) for formaldehyde vapors	FOR200 (12 kg)	
Active charcoal filter(s) for ammonia vapors	AMM 200 (12 kg)	
For powder application only, references to be ordered together: prEN 17242 : A1 class		
H14 Hepa filter(s) for powder handling	HEP200 (2 kg)	
Hepa filter holder	SH200 (4 kg)	
Ventilation element(s) (mandatory)	CAR200 (2 kg)	
For powder + liquid use references to be ordered together (2) must be chosen from (1) : prEN 17242 : A/3 class		
H14 Hepa filter(s) for powder handling (2)	HEP200 (2 kg)	
Hepa filter holder (2)	SH200 (4 kg)	
Active charcoal filter(s) for organic vapors	ORG200 (11 kg)	
Active charcoal filter(s) for corrosive and organic vapors	CORG201 (12 kg)	
Active charcoal filter(s) for formaldehyde vapors	FOR200 (12 kg)	
Active charcoal filter(s) for ammonia vapors	AMM 200 (12 kg)	
Additional accessories		
Containment sump + HPL work-top	BB06 (10 kg)	
Containment sump + Tempered glass work-top	BV06 (15 kg)	
Integrated outdoor light	LUMI (1 kg)	
Tubular table on 4 feet	TTF06 (9 kg)	
Tubular roller table (on castors)	TTR06 (10 kg)	
Monobloc rolling table with storage shelf	TR06 (28 kg)	
Table / trolley cabinet	TA06 (32 kg)	

(1) All filters must be of the same type

Ventilation | Active charcoal filter | HEPA filter | CAR200 box

NFX 15-211 CLASS 2 CE

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▲ H092Z+ + BV09 + 2 x CORG201

H091D+ + BV09 + CORG201

H092D+ + BV09 + 2 x CORG201

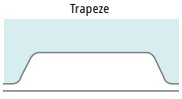
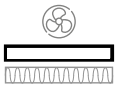
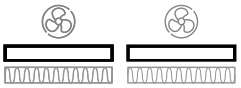
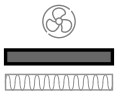
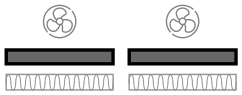
H091D+ + BV09 + SH200 + HEP200 + CAR200

H092D+ + BV09 + 2 x(SH200 + HEP200 + CAR200)

H091D+ + BV09 + CORG201 + SH200 + HEP200

H092D+ + BV09 + 2x(CORG201 + SH200 + HEP200)

NFX 15-211 | CLASS 2 | CE | MADE IN EUROPE

	H091D+	H092D+	H092Z+
Working opening type			Trapeze  L : 400mm, H : 180mm
Number of engines	1	2	
External dimensions W x D x H (mm)	900 x 750 x 1160		
Internal dimensions W x D x H (mm)	845 x 700 x 935		
Weight (kg)	67		
For liquid use only, to be chosen (mandatory) [1] : prEN 17242 : A/2 class			
Active charcoal filter(s) for organic vapors	ORG200 (11 kg)	2 x ORG200 (22 kg)	
Active charcoal filter(s) for corrosive and organic vapors	CORG201 (12 kg)	2 x CORG201 (24 kg)	
Active charcoal filter(s) for formaldehyde vapors	FOR200 (12 kg)	2 x FOR200 (24 kg)	
Active charcoal filter(s) for ammonia vapors	AMM 200 (12 kg)	2 x AMM 200 (24 kg)	
For powder application only, references to be ordered together : prEN 17242 : A/1 class			
H14 Hepa filter(s) for powder handling	HEP200 (2 kg)	2 x HEP200 (4 kg)	
Hepa filter holder	SH200 (4 kg)	2 x SH200 (8 kg)	
Ventilation element(s) (mandatory)	CAR200 (2 kg)	2 x CAR200 (4 kg)	
For powder + liquid use references to be ordered together [2] must be chosen from [1] : prEN 17242 : A/3 class			
H14 Hepa filter(s) for powder handling [2]	HEP200 (2 kg)	2 x HEP200 (4 kg)	
Hepa filter holder [2]	SH200 (4 kg)	2 x SH200 (8 kg)	
Active charcoal filter(s) for organic vapors	ORG200 (11 kg)	2 x ORG200 (22 kg)	
Active charcoal filter(s) for corrosive and organic vapors	CORG201 (12 kg)	2 x CORG201 (24 kg)	
Active charcoal filter(s) for formaldehyde vapors	FOR200 (12 kg)	2 x FOR200 (24 kg)	
Active charcoal filter(s) for ammonia vapors	AMM 200 (12 kg)	2 x AMM 200 (24 kg)	
Additional accessories :			
Containment sump + HPL work-top	BB09 (11 kg)		
Containment sump + Tempered glass work-top	BV09 (16 kg)		
Integrated outdoor light	LUMI (1 kg)		
Tubular table on 4 feet	TTF09 (12 kg)		
Tubular roller table (on castors)	TTR09 (13 kg)		
Monobloc rolling table with storage shelf	TR09 (37 kg)		
Table / trolley cabinet	TA09 (43 kg)		

(1) All filters must be of the same type

Ventilation | Active charcoal filter | HEPA filter | CAR200 box

NFX 15-211 CLASS 2 CE

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▲ H122D+ + BV12 + 2 x CORG201

H121D+ + BV12 + CORG201

H122D+ + BV12 + 2 x CORG201

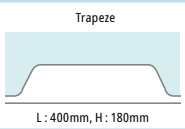
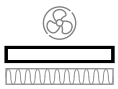
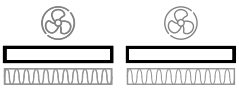
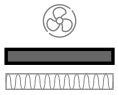
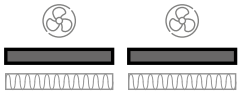
H121D+ + BV12 + SH200 + HEP200 + CAR200

H122D+ + BV12 + 2 x(SH200 + HEP200 + CAR200)

H121D+ + BV12 + CORG201 + SH200 + HEP200

H122D+ + BV12 + 2x(CORG201 + SH200 + HEP200)

NFX 15-211 | CLASS 2 | CE | MADE IN EUROPE

	H121D+	H122D+	H122Z+
Working opening type			
Number of engines	1	2	
External dimensions W x D x H (mm)	1200 x 750 x 1160		
Internal dimensions W x D x H (mm)	1145 x 700 x 935		
Weight (kg)	85		
For liquid use only, to be chosen (mandatory) [1] : prEN 17242 : A/2 class			
Active charcoal filter(s) for organic vapors	ORG200 (11 kg)	2 x ORG200 (22 kg)	
Active charcoal filter(s) for corrosive and organic vapors	CORG201 (12 kg)	2 x CORG201 (24 kg)	
Active charcoal filter(s) for formaldehyde vapors	FOR200 (12 kg)	2 x FOR200 (24 kg)	
Active charcoal filter(s) for ammonia vapors	AMM 200 (12 kg)	2 x AMM 200 (24 kg)	
For powder application only, references to be ordered together : prEN 17242 : A/1 class			
H14 Hepa filter(s) for powder handling	HEP200 (2 kg)	2 x HEP200 (4 kg)	
Hepa filter holder	SH200 (4 kg)	2 x SH200 (8 kg)	
Ventilation element(s) (mandatory)	CAR200 (2 kg)	2 x CAR200 (4 kg)	
For powder + liquid use references to be ordered together [2] must be chosen from [1] : prEN 17242 : A/3 class			
H14 Hepa filter(s) for powder handling [2]	HEP200 (2 kg)	2 x HEP200 (4 kg)	
Hepa filter holder [2]	SH200 (4 kg)	2 x SH200 (8 kg)	
Active charcoal filter(s) for organic vapors	ORG200 (11 kg)	2 x ORG200 (22 kg)	
Active charcoal filter(s) for corrosive and organic vapors	CORG201 (12 kg)	2 x CORG201 (24 kg)	
Active charcoal filter(s) for formaldehyde vapors	FOR200 (12 kg)	2 x FOR200 (24 kg)	
Active charcoal filter(s) for ammonia vapors	AMM 200 (12 kg)	2 x AMM 200 (24 kg)	
Additional accessories [1] ▼			
Containment sump + HPL work-top	BB12 (12 kg)		
Containment sump + Tempered glass work-top	BV12 (17 kg)		
Integrated outdoor light	LUMI (1 kg)		
Tubular table on 4 feet	TTF12 (16 kg)		
Tubular roller table (on castors)	TTR12 (17 kg)		
Monobloc rolling table with storage shelf	TR12 (51 kg)		
Table / trolley cabinet	TA12 (54 kg)		

(1) All filters must be of the same type

Ventilation | Active charcoal filter | HEPA filter | CAR200 box

NFX 15-211 CLASS 2 CE

MADE IN EUROPE

▲ H153Z+ + BV15 + 3 x CORG201

H152Z+ + BV15 + 2 x CORG201

H153Z+ + BV15 + 3 x CORG201

H152Z+ + BV15 + 2 x (SH200 + HEP200 + CAR200)

H153Z+ + BV15 + 3 x (SH200 + HEP200 + CAR200)

H152Z+ + BV15 + 2 x (CORG201 + SH200 + HEP200)

H153Z+ + BV15 + 3 x (CORG201 + SH200 + HEP200)

NFX 15-211 | CLASS 2 | CE

MADE IN EUROPE

	H152D+	H152Z+	H153D+	H153Z+	H153G+
Working opening type		Trapeze L : 400mm, H : 180mm		Trapeze L : 400mm, H : 180mm	Large width L : 850mm, H : 180mm
Number of engines	2		3		
External dimensions W x D x H (mm)	1500 x 750 x 1160				
Internal dimensions W x D x H (mm)	1445 x 700 x 935				
Weight (kg)	102				
For liquid use only, to be chosen (mandatory) (1) : prEN 17242 : A/2 class					
Active charcoal filter(s) for organic vapors	2 x ORG200 (22 kg)		3 x ORG200 (33 kg)		
Active charcoal filter(s) for corrosive and organic vapors	2 x CORG201 (24 kg)		3 x CORG201 (36 kg)		
Active charcoal filter(s) for formaldehyde vapors	2 x FOR200 (24 kg)		3 x FOR200 (36 kg)		
Active charcoal filter(s) for ammonia vapors	2 x AMM 200 (24 kg)		3 x AMM 200 (36 kg)		
For powder application only, references to be ordered together: prEN 17242 : A/1 class					
H14 Hepa filter(s) for powder handling	2 x HEP200 (4 kg)		3 x HEP200 (6 kg)		
Hepa filter holder	2 x SH200 (8 kg)		3 x SH200 (12 kg)		
Ventilation element(s) (mandatory)	2 x CAR200 (4 kg)		3 x CAR200 (6 kg)		
For powder + liquid use references to be ordered together (2) must be chosen from (1) : prEN 17242 : A/3 class					
H14 Hepa filter(s) for powder handling (2)	2 x HEP200 (4 kg)		3 x HEP200 (6 kg)		
Hepa filter holder (2)	2 x SH200 (8 kg)		3 x SH200 (12 kg)		
Active charcoal filter(s) for organic vapors	2 x ORG200 (22 kg)		3 x ORG200 (33 kg)		
Active charcoal filter(s) for corrosive and organic vapors	2 x CORG201 (24 kg)		3 x CORG201 (36 kg)		
Active charcoal filter(s) for formaldehyde vapors	2 x FOR200 (24 kg)		3 x FOR200 (36 kg)		
Active charcoal filter(s) for ammonia vapors	2 x AMM 200 (24 kg)		3 x AMM 200 (36 kg)		
Additional accessories					
Containment sump + HPL work-top	BB15 (13 kg)				
Containment sump + Tempered glass work-top	BV15 (18 kg)				
Integrated outdoor light	2 x LUMI (1 kg)				
Tubular table on 4 feet	TTF15 (22 kg)				
Tubular roller table (on castors)	TTR15 (23 kg)				
Monobloc rolling table with storage shelf	TR15 (65 kg)				
Table / trolley cabinet	TA15 (61 kg)				

(1) All filters must be of the same type

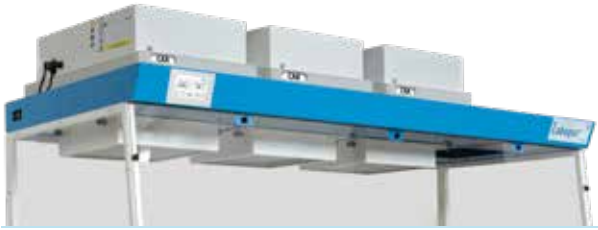
Ventilation | Active charcoal filter | HEPA filter | CAR200 box

NFX 15-211 | CLASS 2 | CE | MADE IN EUROPE

▲ H184G+ + BB18 + 4 x CORG201

H183G+ + BB18 + 3 x CORG201

H184G+ + BB18 + 4 x CORG201



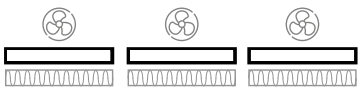
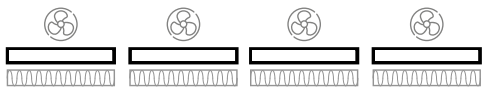
H183G+ + BB18 + 3 x (SH200 + HEP200 + CAR200)

H184G+ + BB18 + 4 x (SH200 + HEP200 + CAR200)

H183G+ + BB18 + 3 x (CORG201 + SH200 + HEP200)

H184G+ + BB18 + 4 x (CORG201 + SH200 + HEP200)

NFX 15-211 | CLASS 2 | CE | MADE IN EUROPE

	H183G+	H184G+
Working opening type	Large width  L : 1150mm, H : 180mm	
Number of engines	3	4
External dimensions W x D x H (mm)	1800 x 750 x 1240	
Internal dimensions W x D x H (mm)	1745 x 700 x 935	
Weight (kg)	125	
For liquid use only, to be chosen (mandatory) (1) : prEN 17242 : A/2 class		
Active charcoal filter(s) for organic vapors	3 x ORG200 (33 kg)	4 x ORG200 (44 kg)
Active charcoal filter(s) for corrosive and organic vapors	3 x CORG201 (36 kg)	4 x CORG201 (48 kg)
Active charcoal filter(s) for formaldehyde vapors	3 x FOR200 (36 kg)	4 x FOR200 (48 kg)
Active charcoal filter(s) for ammonia vapors	3 x AMM 200 (36 kg)	4 x AMM 200 (48 kg)
For powder application only, references to be ordered together : prEN 17242 : A/1 class		
H14 Hepa filter(s) for powder handling	3 x HEP200 (6 kg)	4 x HEP200 (8 kg)
Hepa filter holder	3 x SH200 (12 kg)	4 x SH200 (16 kg)
Ventilation element(s) (mandatory)	3 x CAR200 (6 kg)	4 x CAR200 (8 kg)
For powder + liquid use references to be ordered together (2) must be chosen from (1) : prEN 17242 : A/3 class	-	
H14 Hepa filter(s) for powder handling (2)	-	4 x HEP200 (8 kg)
Hepa filter holder (2)		4 x SH200 (16 kg)
Active charcoal filter(s) for organic vapors		4 x ORG200 (44 kg)
Active charcoal filter(s) for corrosive and organic vapors		4 x CORG201 (48 kg)
Active charcoal filter(s) for formaldehyde vapors		4 x FOR200 (48 kg)
Active charcoal filter(s) for ammonia vapors		4 x AMM 200 (48 kg)
Additional accessories		
Containment sump + HPL work-top	BB018 (15 kg)	
Containment sump + Tempered glass work-top	BV018 (20 kg)	
Integrated outdoor light	3 x LUMI (3 kg)	
Tubular table on 4 feet	TTF18 (24kg)	

(1) All filters must be of the same type

Ventilation | Active charcoal filter | HEPA filter | CAR200 box