

**TOP OF THE LINE**

### Strong Points

Compliant with **CLASS I** of the **AFNOR NFX 15-211** standard  
(reference standard for molecular filtration through superactivated carbon)

The 4 phases of the standard :

Phase 1	Phase 2	Phase 3	Phase 4
Normal operation phase	Detection phase	Safety operation phase	Safety accident phase
The filter adsorbs the quantities indicated by the manufacturer	The monitoring system detects filter saturation	The user may finish the chemical handling in progress after the saturation of the filter has been detected.	A required chemical testing documents the total amount of each chemical to be present within the fume hood. If this quantity is to spill within the enclosure after filter saturation has taken place, the user is still guaranteed to be kept at the TLV/OEL.
Filtration efficiency	Emissions must not exceed 1% of the TLV or OEL.	Emissions must not exceed 50% of the TLV or OEL.	Emissions must not exceed 100% of the TLV or OEL.

#### Filtration principle

##### 2 filtration levels Primary and Safety Filters

##### Revolving Filtration System Patent No.4946480

When the main filter is saturated, it is replaced by the safety filter and a new filter is installed in the safety position.

- 2 molecular filtration levels (main filter and safety filter level)
- A phase transformer (elimination of vesicular effects)
- Particulate filter (toxicap® NU version)
- Detection chamber to determine saturation of the primary filter layer

### Total operator protection

**Filtration safety** : all the captair® toxicap fume hood models are compliant with the AFNOR NFX 15-211 Class I standard.

**Containment of the chemical vapors** within the enclosure- guaranteed by the face velocity monitor.

**Alarm system** notification in case of ventilation failure.

**Sampling port and Chemical Detection Kit** allow the user to perform filter saturation testing.

**Acrylic door** and front shield provide protection from chemical spills. (Fire classification, NF P.92.507 standard)

### Ergonomics and comfort

**Arm openings** designed to allow the operator a large range of movement within the enclosure. Upper and lower openings to provide easy access to all sizes of equipment.

**Ports** for the introduction of electrical or power cables into the enclosure.

**Angled front sash** offers excellent visibility of the chemical handling.

**Very low noise level** (56 dBA).

**Transparent panels and internal** (2 x 18 w) lighting provide excellent viewing within the enclosure

**Rolled edge** provides an area to relax arms and wrists.

**Tempered glass work surface** and spill retention tray may be removed for easy cleaning.

### Easy installation / Energy savings

**No duct work required**, a standard electrical outlet is all that is necessary.

**Can be installed directly** in your lab bench or on our optional rolling cart of the mobicap™ rolling cart.

**Saves energy** by recycling purified air rather than exhausting heated or cooled air within the laboratory.



Safety filter  
Detection chamber  
Main filter  
Particulate filter

**LNE Test Report**  
(French National Testing Laboratory) **available on request**  
(Filtration efficiency standard, AFNOR NFX 15-211)

**Detection kit**  
captair® tubes to perform periodic manual filter saturation detection tests (see chemical listing).

**Tempered glass work surface** and spill retention tray may be removed for easy cleaning.

**Provides a guide to the 600+ chemicals** for their retention capacity within the carbon filters and their method required to determine filter saturation.

#### Operation of the door opening



① **Central protective shield**

② **Front shield**  
lifts completely to allow equipment products to be placed within the enclosure.

### Standard Equipment

**Sampling port** allows operator to test the air emitted by the filter at any time through colorimetric chemical detection tubes.

**Timer**  
Periodical reminder for the filter saturation test.

**Fan Failure Alarm**  
Alarm system notification in case of ventilation failure.

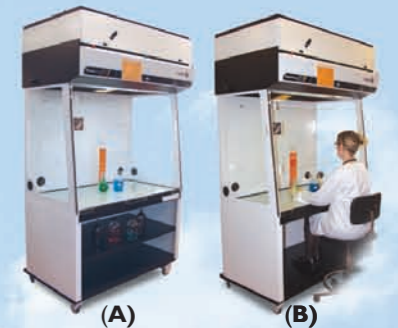
**Internal lighting**  
2x18 W.  
500 lux

**Air flow meter**  
Permanent monitoring system for the air face air velocity.

**Energy ports**

**Ergonomically designed openings** for safety and comfort.

### Optional Equipment



**MOBICAP™ Rolling cart**  
equipped with a retractable internal shelf (A) making it possible to work in the sitting position (B).

**Small retractable shelves** integrated into the mobicap™ for note taking.

**The molecode™**  
Visual and audible electronic alarm to detect filter saturation by hydrocarbons.

**Transparent front panel**  
For better visibility in the filtering enclosure. Ideal for demonstrations in education.

### captair® toxicap models



#### Two types of filter available

	TYPE C or TYPE NU	Gas or vapours without fumes	Gas or vapours with fumes and particles
Organic vapors (possibly acid)	NT AS	NT AS + NTP	
Acid vapors (possibly organic)	NT BE	NT BE + NTP	
Formaldehyde	NT F	NT F + NTP	
Ammonia	NT K	NT K + NTP	
Radioactive iodine	NT G	NT G + NTP	

#### Specifications

Tests and marking **CE**

	cfm	fpm	m <sup>3</sup>	Watt	A	dB(A)
Volume of air treated :	106	102	0.43	135	0.6	56
Average air face velocity :						
Internal volume of the enclosure :						
Total electrical output power consumption :						
Maximum Amperage absorbed :						
Noise level :						

#### toxicap 808

	(mm)	(in)	W	H	D
INT	719	2815	918	3618	668
EXT	800	3112	1481	5816	864

C and NU filter

#### toxicap 1016

	(mm)	(in)	W	H	D
INT	919	3614	918	3618	668
EXT	1000	3938	1481	5816	864

C and NU filter

#### toxicap 1324

	(mm)	(in)	W	H	D
INT	1234	4858	918	3618	668
EXT	1315	5114	1481	4958	864

C and NU filter

#### toxicap 1624

	(mm)	(in)	W	H	D
INT	1519	5914	918	3618	668
EXT	1600	637	1481	5816	864

C and NU filter