

# **GLAZED EXTRACTOR CABINET WITH ACTIVATED CARBON FILTERS**

## **STOCK ACTIVA 120**



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Vertical safety cabinet aspirated by internal motor fan with filtration by molecular adsorption of the treated air on activated carbon + absolute filtration by means of HEPA H14 absolute recirculation filter in the installation room, with provision for possible subsequent external ducting.

Specifically designed for the conservation and manipulation of histological samples, even "fresh" from operating plates, of Criminal Police findings, for storage in hospital laboratory of anatomical samples in formaldehyde (sectorate, forensic medicine, autopsy, pathological anatomy, etc.).

When the doors are open, 80% of the total incoming air flow is directly sucked in through the front opening, while the remaining 20% is sucked in from below, passing through a synthetic pre-filter to retain the dust (when the doors are closed, the air is totally aspirated from below). The air, sucked in by the fan motor, enters in the work area of the wardrobe in the space between the perforated support shelves and, taken from the double rear backdrop which is also perforated, it removes dust and/or traces of stagnant gaseous products (the air flow crosses the shelves vertically). The recovered air mass is intercepted and treated by the filter unit: before the activated carbon filter for formaldehyde or other impregnation on request with a thickness of 40 mm and subsequently the HEPA filter. The filtered air is then expelled from the motorized fan outside the cabinet and put back into the room or ducted outside through a special expulsion duct with a minimum diameter of 150mm.

## Main features

= External carpentry in sheet steel with protective epoxy powder coating RAL 7035 and subsequent treatment in the oven at 180°C.

= Fume extraction along the walls and through the shelves of the wardrobe to guarantee an efficient flow in all areas; internal double bottom for suction of heavy vapors from below.

= N. 2 doors with safety glass hinged and equipped with safety lock with keys. Full-height fixed side windows for internal vision.

= N. 4 perforated shelves in painted sheet metal (or tank on request) for the free upward circulation of the treated air, freely positioned at any height. Range approx. 150Kg

= No. 1 CI200/B40 activated carbon filter group for the adsorption of formaldehyde / glutaraldehyde. Filter dimensions mm600x450x40th.

= No. 1 absolute HEPA filter with 99.995% MPPS efficiency on 0.3 micrometer particles installed upstream of the carbon filter unit mentioned above.

Filter dimensions 610x457x68th mm.

= N. 1 355 W exhaust fan in centrifugal configuration with flow rate self-regulated by anemometric probe. Input voltage 230V-50Hz self-regulated by electronic card up to a minimum of 90V in closed doors position Energy saver - Max power absorbed by the fan 355 Watt - Rotation speed from 1400 to 600 min-1

= N. 1 electronic board with new technology microprocessor, with self-regulation of the air speed by means of anemometric probe, which can be reset by the user

= Pre-set light and sound alarms for pre-filter clogging, insufficient air speed and related filter clogging; on the control keyboard, moreover, main bipolar switch 0/1 with light, extractor switch on button, internal light switch on button, digital operating hour-meter, real-time reading of the speed of the air in transit inside the cabinet on a digital display. Average speed of incoming air with open leaves 0.30m/sec, max expelled air flow rate 750m<sup>3</sup>/h

= Series of lower grilles for ambient air intake equipped with 2 arresting class pre-filters G3 - size B with galvanized sheet metal frame, easily replaceable "drawer"

= External dimensions 1200L x 890P x 2210H (mm); useful internal measures 1180Lx660Px1.400H (mm)

= Suction self-regulation for adjusting the front barrier to the opening of 1 or 2 front glazed doors at the same time: automatic variation of the speed of the fan motor based on the situation, always guaranteeing a correct incoming air barrier and energy savings when the cabinet is left behind closed doors.

= N. 2 high-performance 20 Watt LED lamps with shockproof/anti-glare screen

= External drain connection diam . 150 mm cylindrical stub (collar) for possible external ducting of expelled air

## Command and control panel

In the control panel, which contains the electronic board controlled by a new generation microprocessor, there are:

high-tech electronic board with the following functions:

- machine main switch 0/1 blue light
- fan motor button + relative LED on control panel
- LED lamp on button + relative LED on control panel
- digital hour meter for engine operation and filter use
- UVC lamp on button (optional and interlocked with white light) + relative LED and self-switching off/self-switching timer settable by the customer at hourly countdown (1-99 hours)
- button for operating the internal electrical socket of service (optional) + relative led
- pre-filter clogging alarm + relative led
- visual alarm on the display of the need to replace the installed filters (resettable after replacement)

- continuous real-time reading of the speed of the incoming air (in m/sec) from the plinth grates via blue alphanumeric display
- incoming air barrier speed alarm insufficient
- visual alarm on display of the need to replace the TUV UVC germicidal lamp (optional, resettable after replacement) automatic regulation of the air speed able to compensate:
- continuously changes the opening of the front glass
- the progressive clogging of the pre-filters, carbon filters and absolute filters
- minimum degree of electrical protection IP44 for fan motors, IP55 for electrical panel and for fluorescent lamps.

Built in compliance with the CEI EN 61010-1 standard, EN14175, 2006/42/EC, 2014/30/EU

## Technical features:

- |                                  |  |
|----------------------------------|--|
| · lamps:                         | 2 x 20W LEDs                                       |
| · brightness:                    | > 700 lux  |
| · power supply:                  | 230V — 50/60 Hz single-phase                       |
| · noisiness:                     | < 55dB(A)  |
| · maximum volume of treated air: | 750 m <sup>3</sup> /h                              |
| · air speed:                     | 0.30 m/sec (factory set, editable by the operator) |
| · installed power:               | 420W   |
| · weight:                        | 330 kg net   |

## Stock Activa 120 special stainless steel ventilated cabinet

Equipped with:

n° 1 self-regulated centrifugal fan 230V 355W

n° 2 20W led lamps

n° 1 pair of synthetic pre-filters class G3

n° 1 230 V - 50 Hz power supply cable with UNEL/schuko plug

n° 4 internal perforated shelves + bottom

n° 1 activated carbon filter type CI200/B100 for aldehydes + 1 absolute Hepa H14 filter

n° 1 fitting d.150mm for eventual external discharge pipe

n° 2 glass front doors that can be closed with a key lock

## ACCESSORI

Internal socket type UNEL-schuko 230 V

40 W UV lamp in fixed internal position

