

# CHEMICAL FUME HOOD WITH MOLECULAR ADSORPTION ON ACTIVATED CARBON

## BLACK ACTIVA



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- Black Activa has been designed to protect both of the operator and the surrounding environment/interior from any contamination from handling harmful chemicals from the work area.
- Depending on the nature of the vapors treated, it is possible to use simple carbon filters or ones impregnated with chemical substances capable of favoring the absorption or neutralization of the substances in use.
- Very versatile machine, it is possible to configure it in multiple ways based on the own needs using the list of accessories.

### **Main features**

- Sheet metal structure, thickness 12/10, RAL polyepoxy powder coating 7035 (inalterability over time, resistance chemistry).
- Upon request, the walls can be coated in polycarbonate in case of use of aggressive substances.
- Worktop not included as standard: can be chosen from the available models, as needed or required special configuration
- 6 mm tempered front glass with motorized vertical scroll and equipped of glass anti-fall safety blocks in eraser
- The height between the worktop and the fully open glass is 62 cm.
- The height of the electric glass when fully lowered: 10 cm from the work surface (for safety reasons - hands cut resistant)
- Possibility of ducting the air expelled outside (where possible) from the installation room by adding a discharge connection on the equipment roof.
- Double slotted rear suction bottom in polycarbonate to uniform the horizontal flow of air from the front of the machine
- Arrangement to accommodate up to 3 stacked filters in series (max 2 carbon, 40 mm, plus 1 HEPA) on each filtering unit. The maximum thickness of the filters cannot exceed 150mm
- Controlled electronic board with blue display by high quality microprocessor
- On the control panel, with soft keyboard touch in polycarbonate, there are:
- Illuminated general switch 0/I
- Fan motor button
- LED lamp on button
- Window lifter motor operation buttons
- Hour meter for motor operation and filters use
- Real-time reading of wind speed (in m/sec) on the front opening using numeric display
- Underspeed alarm
- Pre-filter clogging alarm
- Maximum period exceeded alarm for the replacement of the installed filter (resettable)
- Automatic adjustment of the air speed able to compensate:
- Continuously changes the opening of the front glass
- The progressive clogging of the pre-filters, of the carbon filters and absolute filters
- The presence of one or more operators in front to the cabin by reducing turbulence in the work area
- Compliant with the UNI EN 14175-3:2003 standard article 5.3
- 2006/42/EC Machinery Directive/2014/30/EU Electromagnetic Compatibility Directive
- CEI EN 61010-1:2010 (Requirements of safety for electrical measuring devices, control and for laboratory use)

## Technical features:

- Lamp: White LED
- Light intensity: > 800 lux
- Noise level: 60dB max
- Air speed: 0.50 m/sec (factory setting, parameter editable by the operator)

### Installed power:

- Black Activate 90-120: 660/670W
- Black Activate 150-180: 700W

### Exhaust air flow:

- Models 90-120: max: 1000 m<sup>3</sup>/h
- Models 150-180: max: 1200 m<sup>3</sup>/h
- Form 240: max: 2000 m<sup>3</sup>/h

However, the range is dependent on numerous variables such as filters, if any pipe etc.

- Power supply: 230V - 50/60 Hz single-phase

### External dimensions:

- Black Activate 90: 905 x 750 x 1500 mm (L x W x h)
- Black Activate 120: 1205 x 750 x 1500 mm (L x W x h)
- Black Activate 150: 1505 x 750 x 1500 mm (L x W x h)
- Black Activate 180: 1805 x 750 x 1500 mm (L x W x h)
- Black Activate 240: 2405 x 750 x 1500 mm (L x W x h)

### Internal useful dimensions:

- Black Activate 90: 860 x 730 x 865 mm (L x W x h)
- Black Activate 120: 1160 x 730 x 865 mm (L x W x h)
- Black Activate 150: 1460 x 730 x 865 mm (L x W x h)
- Black Activate 180: 1760 x 730 x 865 mm (L x W x h)
- Black Activate 240: 2360 x 730 x 865 mm (L x P x h)

### Base support dimensions:

- Black Activate 90: 910 x 750 x 840 mm (L x W x h)
- Black Activate 120: 1210 x 750 x 840 mm (L x W x h)
- Black Activate 150: 1510 x 750 x 840 mm (L x W x h)
- Black Activate 180: 1810 x 750 x 840 mm (L x W x h)
- Black Activate 240: 2410 x 750 x 840 mm (L x W x h)

### Weight:

- Black Activate 90: Kg. 130 (without filters)
- Black Activate 120: Kg. 150 (without filters)
- Black Activate 150: Kg. 170 (without filters)
- Black Activate 180: Kg. 190 (without filters)
- Black Activate 240: Kg. 270 (without filters)

## **Models available (on request, also in special dimensions)**

Black Activa 90 hood equipped with: n° 1 internal radial fan  
n° 1 20 Watt IP65 led lamp  
n° 2 class G3 synthetic pre-filters  
n° 1 power supply cable fitted with a UNEL schuko plug

Black Activa 120 hood equipped with: n° 1 internal radial fan  
n° 1 20 Watt IP65 led lamp  
n° 2 class G3 synthetic pre-filters  
n° 1 power supply cable fitted with a UNEL schuko plug

Black Activa 150 hood equipped with: n° 1 internal radial fan  
n° 1 24 Watt IP65 led lamp  
n° 3 class G3 synthetic pre-filters  
n° 1 power supply cable fitted with a UNEL schuko plug

Black Activa 180 hood equipped with: n° 1 internal radial fan  
n°1 24 Watt IP65 led lamp  
n°3 class G3 synthetic pre-filters  
n°1 power supply cable fitted with a UNEL schuko plug

Black Activa 240 hood equipped with: n° 2 internal radial fans  
n° 2 20 Watt led lamps  
n° 4 class G3 synthetic pre-filters  
n° 1 power supply cable fitted with a UNEL schuko plug

## **Main optional accessories (other details on request):**

Fixed side windows

Shelves placed inside the work chamber

Worktops in stainless steel

Worktops in polypropylene

Worktops in monolithic stoneware

Worktops in porcelain steel (vetrosteel)

Taps for liquids and gases

Work chamber covered in polycarbonate or stainless steel

Complete formalin supply system, consisting of: dispenser on the worktop with swan neck with revolving valve, 20-litre formalin tank placed under the worktop and control system for dispensing by foot from self-priming pump up to 1 m (necessarily requires the panel holder frame)

Complete controlled unloading system (collection of exhausted liquids)

The kit, operating in low voltage, includes: tank filling control panel, complete with pilot lights and overflow sound signal; 26 liter tank; probe outside the tank not in contact with the liquid with capacitive sensor; plumbing pipes and electrical connection cables (necessarily requires the panel holder frame)

Complete system for dissipator-shredder (necessarily requires the panel-holder frame)

Complete formalin feed + drain and shredder kit (installed on support) The offered system includes a controlled drain system + formalin feed, where we have two different and independent systems that command two distinct functions. The fixed dispenser, the special self-priming pump for formalin, the floor pedal control and the tank with the various pipes are included in the supply. In the controlled discharge there is a level control system in a special electrical panel under the worktop, with a level detector outside the used formaldehyde collection tank and applied to any cabinet (the cabinet is not included) and relative audible alarm. In the formalin feed there is no liquid level detection system, as in fact it is not needed having the self-priming pump. (necessarily requires the panel holder frame)

Electrical panels with sockets and relative frames

Internal electrical outlet 2P+E, 250V, UNEL Schuko type, IP65 – only if there is no water or other liquids inside the work chamber

Trio of 2P+T internal electrical sockets, UNEL Schuko type, IP65 – only if there is no water or other liquids inside the work chamber

Q.EE standard type with n°2/3 UNEL Schuko sockets (on request CEE or Italian bypass 10/16 A) -2P+E-16A/250V and with n°1 M/Thermal modular automatic switch of 10A 250V- mounted on IP65 panel under the worktop (necessarily requires the panel holder frame)

Total panel holder frame mounted on support for standard services such as electrical panel “sockets”, “remote control” valve for water and gas

Floor stand (height 80cm): Sheet metal structure, painted with very light gray polyepoxy powder (RAL 7035), adjustable feet for correct positioning on the ground. Prepared for union with the hood above by means of specific through holes on the upper side

Floor stands with rear casing:

Floor stand (height 80cm). Sturdy sheet metal structure (5 mm thick), very light gray (RAL 7035) polyepoxy powder coating, adjustable feet for the correct ground placement. Prepared for union with the hood above by means of specific through holes on the upper side. Frontally open for the introduction of the operator's legs when seated and/or for a possible extractable cabinet on wheels and equipped at the rear with a cover. Possibility of positioning the electrical panel on a special longitudinal beam, for the use of electrical appliances in the hood

Cabinets, chests of drawers and stools

Metal cabinet with 1 door, extractable on wheels

Energy saving system with automatic front glass lowering of the in the absence of personnel by means of an IR presence detector sensor

Lamp with magnifying glass and targeted lighting

Black light lamp by Wood, with jointed arm

Adjustable spotlight with 50 W halogen lamp

Accessories for possible external ducting

Warning: the choice of the type of external remote fan motor depends on the conformation of the system, the number of curves, the type of filter, etc. etc. Request advice from technical office.

Activated carbon filters of different impregnation and thickness.

HEPA H14 absolute filters, for treatment of powdery materials.

is available, to be chosen according to the needs of the laboratory. Black activa hoods can install multiple types and thicknesses of activated carbon filters inside them, for different substances used. Contact us to obtain the correct type of filters for your laboratory practices.

