

CHEMICAL FUME HOOD WITH MOLECULAR ADSORPTION ON ACTIVATED CARBON

KIM ACTIVA



Registered office, production and offices: via G. Di Vittorio 1
25030 Adro (BS) – Italy

Tel: 030/5123683

Fax : 030/7457833

mob. 338/2614082

www.elmontsrl.com

e-mail : elmont.srl@fiscali.it

KIM ACTIVA has been designed to protect both the operator and the surrounding/external environment from any contamination, handling harmful chemical substances from the work area. Based on the nature of the vapors treated, simple or carbon filters can be used impregnated with chemical substances able to favor the absorption or neutralization of the substances in use, and possibly absolute HEPA H14 filters to retain dust.

Main features

- structure in steel sheet, thickness 12/10, painted with polyepoxy powder (inalterability over time, chemical resistance), very light gray colour. On request, the internal walls can be covered in polycarbonate or PVC in case of use particularly aggressive special substances
- worktop in stainless steel tray with raised edges to contain liquids, completely removable as a drawer from the front of the hood
- tempered front glass (thickness 5 mm) that can be opened manually vertically, positioned at the height desired by the customer
- possibility of ducting the air expelled outside where possible from the installation room by applying the pipe directly to the Ø 150 mm standard collar (n° 1 in the Kim 120 model and n° 2 in the 150 and 180 models). The KIM 80 requires an optional connection
- rear aspiration double bottom in painted sheet metal to uniform the horizontal flow of air from the front of the machine
- predisposition to accommodate in addition to the primary filtering group, a secondary filtration group. Total thickness in height: 110 mm max (ex: n° 1 carbofilter thickness 40 + n° 1 HEPA filter thickness 68 mm
n° 2 stages of filtration with thick carbofilters 40mm)
- electronic board controlled by microprocessor, with automatic adjustment of the speed of the air sucked in by the electronic board
- Thermally protected centrifugal fan of high quality and long lifetime, leading European brand.
- LED lamp located outside the work chamber
- UNEL-schuko type internal electrical socket (or

other on request) 230V-50Hz, IP65 800W

- front machine control panel with membrane keyboard and passive buttons

On the control panel there are:

- Illuminated main machine switch 0/I
 - fan motor activation button with relative LED
 - button for operating the internal electrical service socket with relative LED
 - LED lamp on button with relative LED
 - UVC lamp on button (optional, interlocked with white light) relative LED,
and self-off/self-on timer settable by the customer with hourly countdown (1-99 hours)
 - digital hour meter for engine operation and filter use
 - continuous speed's real-time reading of the air entering the hood from the front opening via alphanumeric display (in m/sec)
 - alarms of:
 - incoming air curtain speed insufficient
 - clogging of pre-filters (with relative LED)
 - need to replace the installed filters, resettable after replacement (visual on display)
 - need to replace the UVC germicidal lamp, resettable after replacement (visual on display)
 - automatic regulation of the air speed able to compensate:
 - continuously changes position of the front glass
 - the progressive clogging of the pre-filters, carbon filters and absolute filters
 - the presence of one or more operators in front of the cabin, reducing turbulence in the work areas
- The LED lamp is installed outside the work chamber.

Technical features:

· minimum lighting level:	> 700 lux
· noisiness:	< 58dB(A)
maximum quantity of treated air:	
· Kim 80:	400 m ³ /h
· Kim 120:	800 m ³ /h
· Kim 150:	1200 m ³ /h
· Kim 180:	1600 m ³ /h
· air speed:	0.50 m/sec parameter set in the factory but editable by the user
installed power:	
· Kim 80:	300W
· Kim 120:	400W
· Kim 150 and 180:	700W
· power supply:	230V - 50Hz single phase
external dimensions:	
· Kim 80:	800 x 685 x 1125 mm (L x W xh)
· Kim 120:	1200 x 685 x 1220 mm (L x W xh)
· Kim 150:	1500 x 685 x 1220 mm (L x P xh)
· Kim 180:	1800 x 685 x 1220 mm (L x P xh)
internal useful dimensions:	
· Kim 80:	790 x 550 x 580 mm (L x W xh)
· Kim 120:	1190 x 550 x 770 mm (L x W xh)
· Kim 150:	1490 x 550 x 770 mm (L x W xh)
· Kim 180:	1790 x 550 x 770 mm (L x W xh)
weight:	
· Kim 80:	80 kg (without filters)
· Kim 120:	115 kg (without filters)
· Kim 150:	140 kg (without filters)
· Kim 180:	150 kg (without filters)

Certifications and conformity

The hoods are built in compliance with the following standards: 2006/42/CE Machinery Directive
2014/30/EU Electromagnetic Compatibility Directive
CEI EN 61010-1:2010 (Safety requirements for electrical equipment for measurement, control and laboratory use)
Compliant with the UNI EN 14175-3:2003 standard article 5.3

Available KIM Activa Models:

Kim 80 hood

Equipped with

- n°1 worktop in AISI 304 stainless steel closed with removable tray
- n°1 manual up and down sliding front glass
- n°1 internal centrifugal motor fan
- n°1 10 W LED lamp
- n°1 internal electrical outlet 230 V-50 Hz
- n°1 high efficiency synthetic pre-filters
- n°1 230 V-50 Hz power supply cable equipped with Unel-Schuko type plug

Kim 120 hood

Equipped with

- n° 1 stainless steel worktop closed with removable tray
- n° 1 sliding front glass with manual up and down
- n° 1 internal centrifugal motor fan
- n° 1 external discharge collar Ø 150 mm
- n° 1 13 W led lamp
- n° 1 internal electrical socket 230 V-50Hz
- n° 2 high efficiency synthetic prefilters
- n° 1 230 V - 50 Hz power supply cable equipped with Unel-Schuko type plug

KIM 150 hood

Equipped with:

- n° 1 stainless steel worktop closed with removable tray
- n° 1 sliding front glass with manual up and down
- n° 2 internal centrifugal fan motor
- n° 2 external discharge collars Ø 150 mm
- n° 1 20W led lamp
- n° 1 internal electrical socket 230V-50Hz
- n° 2 high efficiency synthetic pre-filters
- n° 1 230 V - 50 Hz power supply cable equipped with Unel-schuko type plug

Kim 180 hood

Equipped with

- n° 1 stainless steel worktop closed with removable tray
- n° 1 sliding front glass with manual up and down
- n° 2 internal centrifugal fan motors
- n° 2 external discharge collars Ø 150 mm
- n° 1 24W led lamp
- n° 1 internal electrical socket 230 V-50 Hz n° 3 high efficiency synthetic pre-filters
- n° 1 230 V-50 Hz power supply cable equipped with Unel-Schuko type plug

