



ES-900 CARBO

Fume Cupboard



The fume cupboard model **ES-900 CARBO** is a suction hood with molecular filtration, equipped with activated carbon filter. It assures an excellent protection both of the operator and the environment, it holds in its activated carbon filter all harmful molecules to respiration and environment. It's not suitable like protection for the products manipulated into it from the external contamination.

It can be used in all cases it is not essential to protect the product from the air present in the laboratory (eg opening of biological samples for analysis, manipulation of organic and inorganic substances that produce toxic vapours or smelly, or as protection for centrifugal apparatus risk of aerosols, etc.).

The activated carbon filter for generic substances (**ES-900A CARBO**) absorbs most of the aliphatic and aromatic hydrocarbons, solvents, organic vapors, ketones, alcohols, organic acids, esters, halogens, unpleasant odors, sulfur compounds.

Other substances such as ammonia, formaldehyde and derivatives, acid gases, iodine, mercury, order the hood with carbon filter impregnated for one of these substances (**ES-900B CARBO**). For Casing realised in powdered painted steel acids resistant, RAL 9010.

It can be installed over any bench. Its working surface consists of a removable tray in stainless steel **Aisi 316L 2B** glazed which allows the hood location also over tanks or sinks.

The model certified in accordance with **UNI EN 14175-1-2-3:2003 ES-900/R CARBO** model is equipped as standard with air conveyor \varnothing 150 mm. with anti-wind air grating, for the exhaust outside of filtered air, that the customer is **REQUIRED** to install. The model certified in accordance with only **EN 61010-1:2001 ES-900 CARBO** model does not require any air conveyor.



TECHNICAL SPECIFICATIONS

- Work area dimensions WxDxH: 696 x 637 x 770 mm.
- Removable work benchtop in stainless steel Aisi 316L 2B glazed, dimensions WxDxH: 696 x 637 x 20 mm. Capacity 9 litres.
- Overall dimensions WxDxH: 800 x 670 x 1150 mm.
- Overall dimensions with air conveyor \varnothing 150 mm, WxDxH: 800x670x1320 mm.
- Filtered air volume: 320 m³/h
- Air average speed: 0.50 mt / sec.
- Inner volume: 0.34 m³
- Lighting by fluorescent lamp 18 W outside the work zone
- Weight: 55 Kg.
- Activated carbon filter 5 Kg.
- Prefilter in synthetic material class G3 (82% efficiency) in accordance with EN 779.
- Casing realised in powdered painted steel acids resistant, RAL 9010.
- Front and lateral panel in Plexiglas
- Front panel fixing hooks, if totally opened.
- Polycarbonate membrane control panel with microprocessor.
- Low background noise electric fan that meet the requirements of the directives EN 60335-1, EN 50178, EN 60950, approvals by VDE, CE, UL. Possibility to regulate air flow.
- Command intake to two speeds. Emergency command max speed.
- Aspired air regulation with electric contact in function of the frontal opening: If you open the first low Plexiglas frontal panel, increases the aspiration air flow
- Noise \leq 60dB (A)
- On the right side of the hood, attack with hose union to be grafted, for execution of the carbon filter saturation test.
- Filter working hours digital counter, max 9999 hours.
- Outlet service on controls panel, with overload fuse.
- Outlet service timer, max 99 hours.
- Outlet service working hours digital counter, max 9999 hours.
- Warning signal (flashing display) in case of no tension, during outlet service utilization.

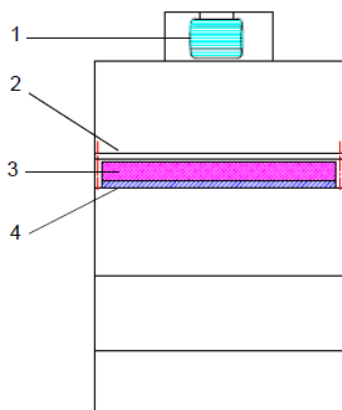
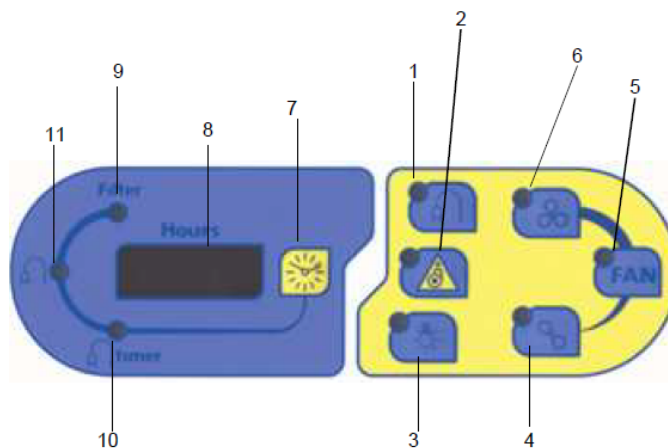


ELETRICAL SPECIFICATIONS

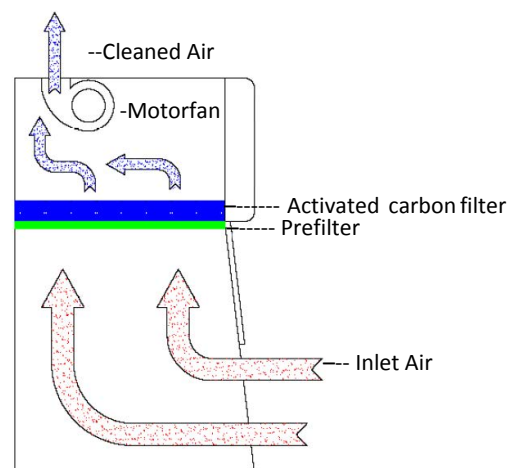
- Power supply: 230 V - 50 Hz.
- Electrical Input: 110 W + 440 W
- Overload fuses: 2 fuses x 3 AF (5 X 20) mm.
- Outlet overload fuse: 2 AF (5 X 20) mm.
- Connection outlet: 10 A

CONTROL PANEL

- 1 outlet control switch
- 2 emergency control maximum fan speed
- 3 lighting switch
- 4 low fan speed
- 5 fan switch
- 6 maximum speed fan
- 7 filter-outlet service time display switching
- 8 time display
- 9 filter working hours visualization, max 9999 hours.
- 10 outlet service timer hours visualization, max 99 hours.
- 11 outlet service working hours visualization, max 9999 hours.



- 1 – Motorfan
- 2 – Fixing filter snap
- 3 – Activated carbon filter
- 4 – Prefilter



ACCESSORIES

- ♦ Air conveyor connector Ø mm. 150 with anti wind air grating. In the cupboard certified UNI EN 14175, the air conveyor is supplied as standard.



- ♦ Front closing panel in Plexiglas
- ♦ Front closing panel in stainless steel



- ♦ Front closing panel in Plexiglas with gloves and prefilter.
- ♦ Hepa H14 filter to put on carbon filter (to insert between the carbon filter and the work zone).
- ♦ Activated carbon filter for Ammonia, Aldehyde, Acid gases, Iodine, Mercury.
- ♦ 3/8" Water cock
- ♦ Mixer cock for hot and cold water with extractable shower
- ♦ 3/8" Air/vacuum cock
- ♦ 3/8" Nitrogen / Oxygen / Argon / Inert gas / Formalin / Carbon dioxide, cocks (max pressure 10 bar).
- ♦ 3/8" Gas cock (max pressure 2 bar)



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