VERTICAL LAMINAR FLOW CABINET

GP FLOW

Elmont S.R.L
Apparecchiature elettromedical i
Cappe da laboratorio

GP Flow Activa is a simple to use cabinet and has small size, it is designed for confined spaces or to be easily transported from department to department using a trolley. Created for the protection of the product, operator and environment, the GP Flow hood allows pollutants to be removed directly at the source, by means of a vertical laminar flow of sterile air in the chamber and on the work surface.

A part of the treated air is recirculated in the room with or without absolute filtration (filter HEPA exhaust as standard in the plus model and in the standard GP-H). In the standard GP Flow model, the laminar flow is generated by 2 internal radial motor fans, controlled by the operator, who can vary the flow speed as he wishes vertical using the commands placed on the keyboard.

In the Plus model, the electronic board automatically checks and verifies that the vertical laminar flow is always aligned with the value requested and set by the user, and on the digital display the velocity of vertical laminar flow at any instant, expressed in m/s, is highlighted in real time

Due to its construction, the GP flow is a small class II vertical laminar flow hood (for models equipped with HEPA filter also in expulsion). The machines are useful for handling products that are not dangerous for humans.

Technical features for both models (standard and plus):

- Structure:
  sheet metal, thickness 12/10, with powder coating Polyepoxy (inalterability over time, chemical resistance).
- Worktop:
  in AISI 304 stainless steel drilled and aspirated from below, divided in 2 segments that can be removed for cleaning

Work chamber:
- Back panel:
  in AISI 304 stainless steel scotch-brite satin finish, can accommodate electrical sockets and/or gas taps (opt)
- Side walls:
  glass (thickness 4 mm)
- Front panel:
  in tempered glass (thickness 5 mm), with latch opening manually sliding vertically, positionable by client at any height (from 0 to 33 cm)
- Motor fans:
  internal radial fan motors with air distribution ca.70% downflow and 30% exhaust, adjustable manual (Standard models) or automatic (Plus model) of the aspiration. IP44 electrical protection degree
- Barrier air speed:
  0.40 m/s (front opening)
- Laminar flow:
  0.40 m/s modifiable by the user
- Noise level:
  less than 58 dBA
- Nominal power:
  100W
- Filters:
  HEPA class H14 according to EN 1822 (efficiency 99.995%MPPS)
- Useful dimensions:
  690 x 430 x 360mm (L x W x H)
- External dimensions:
  700 x 515 x 770mm (L x W x H)
- Power supply:
  220/240V - 50/60Hz
- Weight:
  Approx. 50 kg net

Additional technical features only for "PLUS" models

- Lighting > 700 lux with 10W LED lamp
- Possibility of ducting the air expelled from the installation room to the outside through a collar with flange diam . 150 mm (optional), additional extractor motor excluded
- Electronic board commanded and controlled by a new generation microprocessor, with alphanumeric display
- Control panel with soft-touch keyboard in polycarbonate and a high-tech electronic board with the following functions:
· illuminated main switch 0/1
· fan motor button
· 10 W LED lamp on button
· UVC germicidal lamp on button
· digital engine operation hour meter
· audible and visual alarm on the display of exceeding the maximum period for replacing the filters (resettable)
· audible and visual alarm on the display of exceeding the maximum period for replacing the UVC lamp, if installed (resettable)
· button for powering the internal electrical socket (if present)
· countdown UV lamp operation timer that can be set by the customer with auto-off at the end of the cycle
· real-time reading of air speed (in m/sec) in vertical laminar flow via blue LED numerical display
· insufficient laminar flow rate alarm
- Automatic adjustment of frontal air speed able to compensate for:
· continuously changes the opening of the front glass
· the progressive clogging of the absolute filters
· the presence of the operator in front of the cab, reducing turbulence in the work areas

Models available

Depending on the type of filtration required, you can have:

GP Flow Standard, equipped with:
n°1 absolute downflow HEPA filter

GO Flow Standard_H, equipped with:
n°1   absolute HEPA filter in downflow
n°1   absolute HEPA filter in exhaust

GP Flow Plus hood
n° 1 absolute HEPA filter in downflow
n° 1 absolute HEPA filter in exhaust
n° 1 ceiling light with 10 W LED lamp

Conformity and certifications

· 2006/42/CE Machinery Directive/Directive on machinery /Directive relating to aux machines
· 2014/30/EU Electromagnetic Compatibility Directive/ Electromagnetic Compatibility Directive/ Directive sur la compatibilité electromagnétique
· CEI EN 61010-1:2010 (Safety requirements for electrical equipment, measurement, control and laboratory use)

Accessories

Floor support: small table made entirely of 12/10mm thick sheet metal, painted with very light gray epoxy powder, adjustable feet for correct positioning on the ground.
Floor support with wheels: small table entirely in sheet metal (thickness 12/10mm), very light gray epoxy powder coating, pivoting wheels for transformation into trolley.

Height adjustable floor stool (from 48 to 60 cm) with backrest and acrylic seat

Valve tap for empty gas or on the rear backdrop left side

Solenoid valve on fuel gas cock

Internal socket type UNEL/schuko 230V - 4A - IP55

(located rear right)

10W white led lamp

(only for GP Flow Standard — standard in the plus model)

15W UVC Germicidal Lamp