SCANLAF



MINERVA CLASS III MBSC

Probably the best
Class III Safety Cabinet
Designed for your Safety and Comfort

The ScanLaf Minerva Class III Biological Safety Cabinet compliments our range of Mars Class II and MSC Class I cabinets to provide total operator, product and environmental protection when handling biological materials from Hazard Group 1, 2 and 3 and 4.

Designed to conform to the requirements of EN 12469, the Minerva Class III offers an ergonomically designed enclosure for use when total containment and protection is required.

Description:
The cabinet, work area and front is made of 1,5 mm stainless steel 304. The inner cabinet has rounded corners for easy cleaning. On the front a glove port is fitted to ensure absolute closure of the working chamber yet still allowing easy manipulation of samples.

The gloves are made of 0.6 mm latex rubber or alternatively 0.4 mm neoprene rubber. The front window is easy to open for getting free access to the work chamber for periodic cleaning and, at the same time, allows excellent supervison of the work area giving an excellent working posture for the operator. The window is made of 10 mm polycarbonate mounted with silicone rubber gasket.

The lightning is shadow and glare free with high intensity illumination outside the work chamber allowing for easy service from the front.
The unit can be supplied either with or without an internal blower for safest operation and highest performance according to the application.

Control:
The operation is via a membrane panel similar to the Mars cabinet with a simple operator menu and a code controlled service menu to allow for the different cabinet functions to be set according to the application. For example the lights can be adjusted from 0-2000lux and the blower (if fitted) can be set to run at reduced speed when the cabinet is in stand-by mode thus saving energy. There is also an hour counter for noting the cabinet run times between service intervals . Visual and acoustic alarms indicate incorrect airflow and unsecured front window.
A Minihelic differential manometer gives a visual indication of pressure drop in chamber sub pressure.

Function:
The cabinet is a hermetically closed glove box where the air velocity has a controlled flow of 180 m^3/h minimum with a negative pressure of 200 Pa. The air is drawn into the working chamber via an easy accessible and visible EU 8 pre-filter and an H-14HEPA-filter, which can be replaced from the top. Then the air is drawn out through either a single or double exhaust HEPA-filter quality H-14 depending on the application.
Leakage of any hazardous material is prevented by the internal negative pressure during operation.

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Dimensions:

Different sizes are available to suit the requirement but typically the cabinet is available with a 1000mm working width.

For example:

External (HxWxD) mm:1100x1000x1050
Work chamber (HxWxD) mm: 700 x1000 x650
Air flow volume: 180 m^3/h
Blower type: EBM
Light intensity: > 1000 lux
Noise level: < 55 dBA
Net weight: 175 kg
Power: 220 volt/2 amp/440 watt

Extra equipment:

Air lock / transfer hatch in stainless steel mounted in left or right side dimension: (HxWxD): 400x300x300 mm

Electrical elevation stand adjusting the work height precisely for each operator most comfortable work position from 70 to 110 cm

Carbon filter with prefilter mounted on exhaust

Lowered table top in AISI 316 stainless steel

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