

# HORIZONTAL LAMINAR AIRFLOW CABINET

**OS-N**  
Proven Safety  
in Laboratory



# OS-N Horizontal Laminar Airflow Cabinet according to ISO 14644-1 Proven Safety in Laboratory

## FOREWORD

The **OS-N** horizontal laminar airflow benches are the most advanced alternative to sterile rooms, providing highly decontaminated working areas.

Sterile horizontal benches for product contamination protection are constructed in epoxy powder painted steel. The wide choice of sizes and materials enables many different applications; each version is supplied with either stainless steel or non reflective plastic laminate work surfaces (option).

## APPLICATIONS

**OS-N horizontal laminar airflow benches** can be used in a wide range of disciplines, including:

- Sterile manipulation
- Sterility tests
- Microbiology
- Preparation of ophthalmic solutions
- Preparation of culture media
- Assembly of equipment
- Floriculture
- TPN preparation
- Medical device assembly



# TECHNICAL SPECIFICATIONS

## Construction:

Corrosion resistant epoxy powder painted steel (as standard); glazed AISI 304 stainless steel (on demand).

## Work Surface:

AISI-304 stainless steel (as standard) or non reflective plastic laminate (on demand).

## Transparent Transparent side walls:

Safety glass

## Absolute filters:

H14 HEPA filters, tested with D. O. P aerosol. Their efficiency, higher than 99.995% MPPS - 0.005% penetration - ensures performance exceeding requirements of EN-1822.

## Pre-filters:

Synthetic fibers pre-filters washable in water or with compressed air, average arrestance 80/90 % ASHRAE (CEN-G3); dust holding capacity 400 g/m<sup>2</sup>.

## Motor-blower/s:

Direct coupled motor/s, electronic speed controlled to maintain a constant air flow of 0.45 m/sec, and compensate for a partially clogged filter, up to a maximum plenum pressure of 40 mm of water.

## Power supply:

230 V - 50 Hz, single phase. Other voltages on request.

## Lighting:

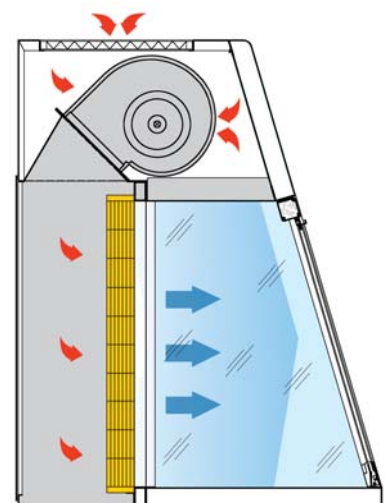
Fluorescent lights installed on the anterior part of the ceiling.



Accessory

# OPTIONS

- Stainless steel modular stand for OS-N
- Castors for stainless steel modular stand
- Epoxy powder painted modular stand for OS-N
- Castors for epoxy powder painted modular stand
- 3-Drawers unit on pivoting Castors and removable epoxy powder painted vessels
- PVC shutter for front aperture of OS-N
- UV lamp on OS-N factory fitted with PVC shutter to close the front opening
- Service connection for gas/vacuum (1 tap)
- Service connection for electrical power
- Hour counter, factory fitted
- Differential pressure gauge
- Automatic regulator with digital anemometer for OS-N
- D.O.P. Inlet
- Stainless steel bar for bags to be fitted on OS-N



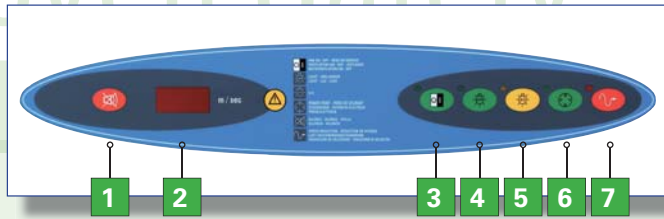
OS-N Cabinet operational principles

External air  
Sterile air

*The ambient air is drawn in from the top through the upper part of the cabinet via a pre-filter and it then passes after filtration through a HEPA filter into the working area in a horizontal laminar air flow pattern and exhausted outside.*

# OS-N CONTROL PANEL

Proven Safety  
in



- 1 Silence button
- 2 Display (optional)
- 3 Fan ON/OFF
- 4 Light
- 5 U.V. Light (optional)
- 6 Power point
- 7 Speed reduction

## TECHNICAL FEATURES

Code	Model	Useful dimensions (mm)			Overall dimensions (mm)			Power		Weight	
		W	H	D	W	H	D	Kw	Kg		
074200210	OSN-3	885	734	600	945	1195	925	0,4		100	
074200220	OSN-4	1190	734	600	1250	1195	925	0,4		125	
074200230	OSN-5	1495	734	600	1555	1195	925	0,8		180	
074200240	OSN-6	1800	734	600	1860	1195	925	0,8		195	

