

## VERTICAL LAMINAR AIRFLOW CABINET

### WOLF LS90

#### FOREWORD

The LS 90 laboratory cabinet ensures high containment reliability, providing a Class 100 working area highly protected from both micro-organisms and air-borne contaminants. Compact, economic and easy-to-place new concept of laminar flow cabinet, gives two working possibilities:

#### 1 -Overpressure system

Part of the sterile air is exhausted through the front opening.

#### 2 -Depression system

Part of the filtered air is exhausted, while air from outside is partially brought in through the front opening thus obtaining a protective barrier.

To exchange the two operational systems, it is sufficient to change the position of the closing plate with the pre-filter and viceversa.

#### APPLICATIONS

LS 90 has been specifically designed to meet specific requirements of electronics, pharmaceuticals, optical and biotechnology laboratories, primarily when handling cell cultures and no-hazardous biological agents, when it is necessary to ensure material protection. Can be used in a wide range of disciplines, including:

- Microbiology
- Sterility tests
- Cell culture
- Sterile manipulations
- DNA work/thermal cycling/PCR



#### SPECIFICATIONS

**Construction:** corrosion-resistant epoxy powder painted carbon steel.

**Transparent side walls:** safety glass.

**Work surface:** Punched AISI-304 stainless steel, to ensure flow laminarity and air recycling at the work surface level. An air slot at the front aperture provides a protective barrier for product.

**Absolute filter:** HEPA filter, tested with D.O.P. aerosol. Its efficiency, higher than 99.995% MPPS -0.005% penetration -ensures performance exceeding requirements of EN1822, U. S. Federal Standard 209 e, British Standard 5295, VDI-2083 and AS 1386-1979.

**Pre-filters:** synthetic fibers pre-filters (washable in water or with compressed air), average arrestance 80/90% ASHRAE (CENG3): dust holding capacity 400 g/m<sup>2</sup>.

**Motor-blower:** direct coupled motor, 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 pressure of 35 mm of water.

**Power supply:** 230 V, 50 Hz, single phase.

**Lighting:** remote mounted fluorescent light, outside sterile area.

**Front window:** safety glass with camlock.

Code	Model	Useful Dimensions mm			Overall Dimensions mm			Power	Weight
		W	H	D	W	H	D	Kw	Kg.
O74 500220	LS-90	790	585	400	845	785	660	0.2	75

Recirculated Air m3/h	Exhausted Air m3/h	Temperature Rise	Volts Hz	Noise dBA	Lighting lux	Vibrations mm RMS
230	100	<4 ° C	230/50	<60	>500	<0.008

**π ACCESSORIES:**

Code	Descriptions
O74 704000	Epoxy powder modular stand for LS-90
O74 700300	UV lamp for LS-90 with stainless steel front closure
O74 700780	Hour counter
O74700740	Digital anemometer
O74 700750	Digital anemometer with automatic regulation
O74 700790	Differential pressure gauge
O74 709076	D.O.P. inlet
O74 700770	Electrical power socket
O74 700760	Manual tap for gas/vacuum