### CERTIFICATE

no.: TM 61000498.001





Licence holder

ALPINA Polska Sp. z o.o. ul. Zakładowa 11b 62-510 Konin, PL Manufacturing plant

ALPINA Polska Sp. z o.o. ul. Zakładowa 11b 62-510 Konin. PL

Project number

26100536

Our reference

SD/84947818

Certificate validity period

from 17.07.2020 to 16.07.2025

Basis of research

PN-EN 12469:2002

TÜV Rheinland Polska Sp. z o.o. declares that the product described below meets the requirements contained in the reference documents:

Laminar Flow Cabinet Safety Class II, type A2:

Types:

- BIO 100,
- BIO 130,
- BIO 160,
- BIO 190,

TÜV Rheinland Polska Sp. z o.o.

ul. 17 Stycznia 56,

02-146 Warszawa, Polska Tel.: (+48/22) 846 79 99 Tel.: (+48/22) 868 37 42

e-mail: post@pl.tuv.com

Warsaw, 17.07.2020

Product certification body

Tomasz Opaszowski

This certificate is subject to the Certification Terms and Conditions and the JCW TRP General Transaction Conditions and applies on the products that are compliant with the standard used for compliance assessment. This certificate alone does not entitle the holder to affix the CE mark.

This certificate entitles the holder to affix the product with the TUV mark.



Safety Regular Production Surveillance

www.tuv.com ID 0000045372







### DECLARATION OF CONFORMITY UE



**ALPINA Maciej Mixtacki** ul. B. Krzywoustego 9 62-510 Konin Polska

Hereby declares under our sole responsibility that equipment manufactured by our factory:

Category

: Laminar - flow cabinets of safety class II

Typ

: A2

Marka

: ALPINA

Model

:BIO 100, BIO 100 CYTO, BIO 130, BIO 130 CYTO,

:BIO 160, BIO 160 CYTO, BIO 190, BIO 190 CYTO

Have satisfying the requirements of the following UE directives:

2014/35/UE

: Low Voltage Directive

2014/30/UE

: Electromagnetic Compatibility Directive

and meet the requirements of the harmonized standards:

IEC 61010-1:2010

: Safety requirements for electrical

equipment for measurement, control and laboratory use. Part 1: General requirements

IEC 61326-1:2012

: Electrical equipment for measurement,

control, and laboratory use. EMS

requirements. Part 1: General requirements

EN 12469:2000

: Biotechnology. Performance criteria for

microbiological safety cabinets.

Konin 14,07-2016 Mixtacki

62-510 Konin, ul. Krzywoustego 9 tel. 63 220 51 00, 245 90 73 NIP 665-255-20-42 REGON 311593769 ADRES KORESPONDENCYJNY: 62-510 Konin, ul. Zakładowa 11B

Maciej Mixtacki Managing Director

ul. Krzywoustego 9 62-510 Konin

**ALPINA** www.e-alpina.eu

T: +48 63 220 51 00 E: export@e-alpina.pl

#### Laminar-flow cabinet BIO130 type A2





# Deatils

- laminar cabinet II safety class according to norm PN-EN 12469 provides protection of user, product and environment
- vertical laminar air flow adjusted within the range of 0,25 to 0,50 m/s
- silent-running ventilators
- 2 HEPA filters
- automatic filter compensation ensures constant and safe speed of air flow in the cabinet
- hour timer of the cabinet and UV lamp operation. Permanently fixed UV lamp in the upper part of the workspace, protected from accidental switching on during operation
- front window made of tempered double glass without frame, inclined at an angle of 8°, electrically raised and lowered with a possibility to close completely the working space
- sides of the workspace with windows holes (media)
- two power sockets inside workspace
- · removable armrest
- frame with lockable castors.

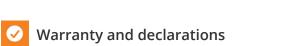
Simple and intuitive steering of the laminar by touchable control panel which can be operates even with the gloves. For more comfortable work steering system has been customized to work in the following languages: English, Polish, German, and Spanish. Furthermore, each function is started by dedicated button to omit entering in the lower levels of menu. The cabinet is equipped in the laminator, specially designed cover under the main filter which provides orderly and steady air flow. Stand-by function maintains chamber in readiness to work. Application of the newest ventilators EC type and cost-effective illumination reduced the electrical energy consumption about 76 % in the work mode and by 87% in the standby mode in comparison to the older models.

# Product`s pictures









- Each cabinet is tested in the factories laboratory maintained according to norm PN-EN ISO/IEC 17025:2005
- 36-month warranty.



<b>Extranal dimensions</b> width, depth, height in mm.		1340 / 790 / 2069
Internal dimensions width, depth, height in mm.		1250 / 645 / 660
Number of fans in pcs.		3
Number of sheet in worktop in pcs.		4 or 1
Maximum height of window panel lifting during work in mm.		300
Maximum height of front window panel lifting in mm.		500
Air flow according to indications in m/s.		0,25 - 0,50
Number of HEPA filters in pcs.		preliminary - n/a
		main - 1 pcs.
		outlet - 1 pcs.
Effectiveness of HEPA filters		> 99,995 % for MPPS - H14
Level of acoustic pressure according to PN-EN ISO 11201 in dB.		< 53
Lighting in lux.		> 1500
Power consumption in Watt.		work with one fluorescent < 119
		work without light < 31
Power of UV bactericidal lamp in Watt.		15
Numbers of electric sockets inside the chamber standard, in pcs.		2
Control panel with touch screen.		available languages: EN, DE, SP, PL
Gas valve, vacuum or air		option
Chamber construction	floor, workplates, sides and worktop	stainless steel 1.4301
	external housing	steel DC01, powder coated RAL 7035
	front window panel	safety glass, thickness 6mm, angle 8°
Equipment weight in kg.		260
Power supply 1-phase.		230V / 50Hz

