DECLARATION OF CONFORMITY UE

Producent: ALPINA Polska Sp. z o.o.

Adres: 62-510 Konin, ul. Zakładowa 11B, Polska

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

Category: **Laminar flow cabinets: BIO-series**

Typ: **Vertical**

Marka: **ALPINA**

Model: **BIO100/100CYTO/BIO130130CYTO/BIO160/160CYTO/BIO190/190CYTO**

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:

PN-EN 61010-1:2011   Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements.

PN-EN 61326-1:2013   Electrical equipment for measurement, control, and laboratory use. EMS requirements. Part 1: General requirements.

PN-EN 12469:2002   Biotechnology. Performance criteria for microbiological safety cabinets.

Konin, dnia 22-06-2020   Witold Mixtacki

Chief Executive Officer

CERTIFICATE

no.: TM 61000497.001

ALPINA

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
DIN 12980:2016-10

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 for cytostats:
Types:
- 100 CYTO
- 130 CYTO
- 160 CYTO
- 190 CYTO

TÜV Rheinland Polska Sp. z o.o.
ul. 17 Stycznia 56,
02-146 Warszawa, Polska
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Tel.: (+48/22) 868 37 42
e-mail: post@pl.tuv.com

Product certification body

Tomasz Opaszowski

Warsaw, 17.07.2020

Safety
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www.tuv.com
ID 0000045372

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Precisely Right.

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BIOLOGICAL SAFETY
CABINETS CLASS II

MODELS BIO100 A2 | BIO100 CYTO A2
BIO130 A2 | BIO130 CYTO A2
BIO160 A2 | BIO160 CYTO A2
BIO190 A2 | BIO190 CYTO A2

Biological safety cabinets class II
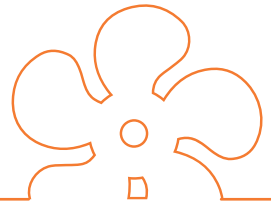
WHAT MAKE **US STAND** OUT?

ONE PRODUCER IN POLAND WITH TUV CERTIFICATE
The only Polish laminar flow cabinets class II with microbiological safety certificate i electrical certificate issued by TUV Rheinland ID 0000045372.
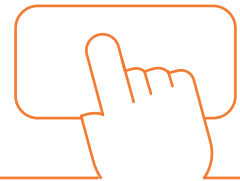
SILENT WORK
Comfortable work is ensured by the silent-running electronically controlled fans EC type and unique system of air flow inside the working space.
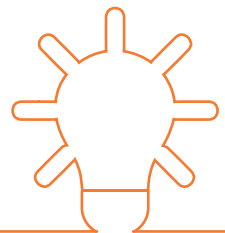
USER FRIENDLY TOUCH PANEL
For increase the comfort of work each of the function is actuated by dedicated button whereas menu is available in many languages including English, German, Spanish, Arabic. Thanks to intuitive pictograms and clear remarks the cabinet is easy to maintain even in gloves and is the basis of system "Easytouch".
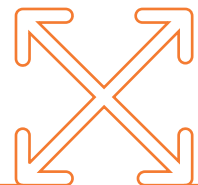
LIGHT INTENSITY MORE THAN 1400 LUX
Cost-efficient LED white provides parallel light inside working space. Comfortable work for the eyes is provided by more than 1400 lux light intensity.

4 SIZE OF BIOLOGICAL SAFETY CABINETS
BIO series cabinets have standards width from 100 to 190 cm. At the customer's request, we can adjust the chamber to the customer's request.

REPOKE CABINETS
ALPINA's cabinets can be modified in terms of dimensions as well as design and functionality at the customer's special request.

BSC models

BSC **BIO100 A2**
BSC **BIO100 CYTO A2**

BSC **BIO130 A2**
BSC **BIO130 CYTO A2**

BSC **BIO160 A2**
BSC **BIO160 CYTO A2**

BSC **BIO190 A2**
BSC **BIO190 CYTO A2**

Characteristics of the BIO series

❯ **Biological Safety Cabinet Class II** according to norm PN-EN 12469:2002, provides protection of user, sample and environment.

❯ Circulation of the air flow 30/70%.

❯ **Adjustable, vertical airflow** in range between 0,25 to 0,50 m/s.

❯ **Two or three HEPA H14** with efficeny above 99,995% for MPPS.

❯ **Automatic HEPA compensation** provides stable and safe volume of the airflow inside the working space.

❯ Fans engines are electricaly commuted (EC) **it is silent and comfortable work.**

❯ **Dual airflow monitoring system** by using temperature compensated sensors, separate for main laminar flow and for inlet flow (flow sensor).

❯ **Intuitive steering system** with touch control panel with several languages: Polish, English, German, Turkish, French, Italian, Spanish.

❯ **Comfortable & functional menu** without necessity to go inside menu.

❯ User-friendly and easy 7" inch touch display – **optical and visual warning.**

❯ **Digital work timer of device** & UV lamp and interior control-warning system.

❯ Stand-by mode – reduced speed of the fans **keep sterile conditions** inside the working space and **saving electric energy**.

❯ **Access management** to cabinets function for the admin and users.

❯ **Cleaning window mode** - washing function with full protection of the user (window is lowered down below the working space).

❯ Date and timer with real time.

Construction of the chamber

1 Construction of the cabinet is powder coated RAL 7035.

2 Permanently fixed UV lamp in the upper part of the working space, protected from accidental switching on during operation.

3 Side walls of the cabinet full or with the windows.

4 Interior of the working space made in seamless construction what minimize risk of contamination.

5 The front window made from double tempered glass without frame, inclined at an angle of 8°, electrically raised and lowered with a possibility to close completely the workspace.

6 Cost-effective, non-shadow, white LED illumination placed outside the working space.

7 In the working space are placed minimum two power sockets.

8 Perforated mesh provides even and steady airflow inside the working space.

9 DOP ports to make HEPA tests.

10 Removable and ergonomic worktop made of stainless steel, demountable or one –piece.

11 Stainless steel basin as a bottom of working area, easy and safe for liquids and other materials.

12 Removable armrest.

13 The table stand on wheels with brakes.

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Additional equipment (additional fee)

❯ Valves: vacuum, gas, water, air
❯ Working space is made of stainless steel
❯ Additional sockets in the working space: USB
❯ HDMI cable choke, extra holes
❯ Stainless steel rods for hanging things
❯ Monitor placed in the back wall of working space
❯ Modification of the working top
❯ Adjustable table stand with automatic system, scope 83-103 cm
❯ Connection to ventilation system
❯ Users work timer
❯ Additional holes in the side walls

Approvals & warranty

Approvals of cambers:
❯ certificate of microbiological safety TUV PN-EN 12469:2002
❯ certificate of electrical safety TUV PN-EN 61010-1:2011, PN-EN 61326-1:2013-06
❯ Declaration of Conformity CE
❯ cabinets are produced according to the quality management system ISO 9001

Each laminar safety cabinet is tested in the factory's laboratory maintained according to norm ISO 17025.

Warranty period: 36 months.

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