

CLASS III BIOSAFETY CABINET • GLOVE BOX

BSCAB15

Biological Safety Cabinet Class III • totally enclosed • gas-tight • double ULPA exhaust

BSCAB15 Biological Safety Cabinet Class III gives the highest level of protection for work with high-risk agents. The work zone is totally enclosed and gas-tight, kept at a stable negative pressure, and the operator works only through the gloves. Supply air is ULPA-filtered and all exhaust air passes through two ULPA filters in series; nothing is recirculated into the room.

Class III Gas-tight ULPA 99.9995 % 2 × ULPA exhaust ≥ 120 Pa negative Pass box
Butyl gloves ≥ 1000 lx

Document type: **Technical Specification Sheet**

Product: **BSCAB15 Biological Safety Cabinet Class III**

Order code (SKU): **PRO4872**

Format: Print layout • A4 landscape

[BSCAB15 product page](#)

[Safety Cabinets & Air Protection — overview](#)

[Safety Cabinets & Air Protection catalogue](#)

[Request quote](#)

PROTECTION

Operator • sample • environment

FILTRATION

ULPA supply • 2 × ULPA exhaust

PRESSURE

≥ 120 Pa negative • monitored

WORK ZONE

1165 × 650 × 660 mm



BSCAB15 • Class III glove box with side pass box on base stand

MODEL

BSCAB15 • PRO4872

ADDRESS / HQ

**Polje ob Sotli 4
SI-3255, Slovenia**

CONTACT

**sales@colo.si
+386 70 713 437**

BSCAB15 • product overview

Maximum containment for high-risk biological agents

HOW THE CABINET PROTECTS

Total containment — the work zone is closed and gas-tight; the operator works only through the gloves.

Negative pressure — the work zone is kept at ≥ 120 Pa below the room; a pressure sensor shows the value continuously and an alarm warns if pressure is lost.

Double exhaust filtration — all exhaust air passes through two ULPA filters in series, 99.9995 % at $0.12 \mu\text{m}$; no air is recirculated into the room.

Clean supply air — supply air enters through a ULPA filter, so the sample is protected as well.

Pass box — materials enter and leave through a side pass box with its own UV decontamination.

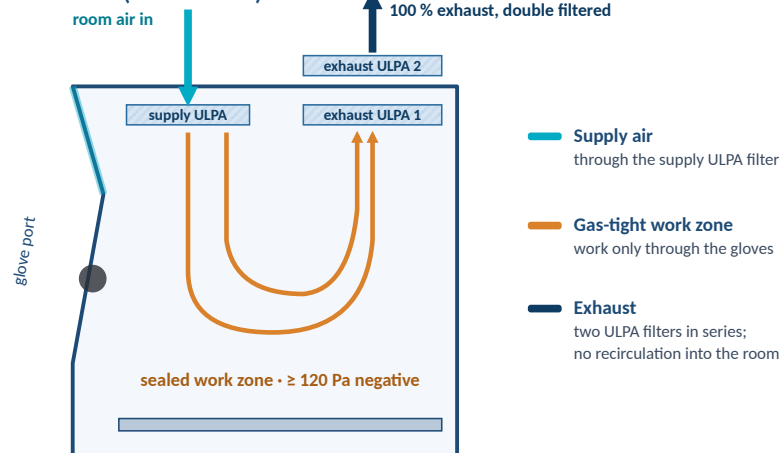
Ergonomic glove work — inclined front, glove ports at working height and 800 mm butyl rubber gloves for long work.

Easy cleaning — smooth SUS304 stainless steel surfaces, resistant to chemicals and disinfectants; drain valve.

Decontamination — the gas-tight cabinet is suitable for total decontamination; integrated decontamination system as an option.

AIRFLOW

Side view • Class III airflow (total exhaust)



Typical applications

High-containment laboratories — work with risk group 3 and 4 agents.

Reference and public-health laboratories — handling of dangerous pathogens.

Research — infectious disease and vaccine development.

Hazardous materials — work that needs a physical barrier between operator and sample.

NEGATIVE PRESSURE
 ≥ 120 Pa

LIGHTING
 ≥ 1000 lx

POWER
1300 W

NOISE
 ≤ 67 dB

BSCAB15 • technical parameters

Standard execution and available options

TECHNICAL PARAMETERS

Classification	Biological safety cabinet Class III, totally enclosed and gas-tight
Protection	Operator, sample and environment; work only through the gloves
Airflow	Supply air through ULPA filter; 100 % of the air exhausted, no recirculation into the room
Supply filter	ULPA, 99.9995 % at 0.12 µm
Exhaust filters	2 × ULPA in series (double exhaust filtration), 99.9995 % at 0.12 µm
Pre-filter	Polyester fibre, washable
Negative pressure	Stable negative pressure in the work zone, ≥ 120 Pa
Pressure monitoring	Pressure sensor with continuous display; pressure meter
Alarms	Visual and audible: loss of pressure, filter damage or blockage (filter replacement)
Exhaust connection	Option: connection to a dedicated exhaust duct discharging the filtered air outside the building
Noise	≤ 67 dB
Memory	Settings retained after a power failure

Front window	8 mm toughened safety glass, impact-resistant, UV-resistant; ergonomically inclined
Gloves	1 pair, 800 mm, butyl rubber, one piece, chemical-resistant; gas-tight glove ports
Pass box	Side pass box with independent UV decontamination
Control panel	Digital control with LCD display: pressure, filter status, alarms; remote control
Lighting	LED, ≥ 1000 lx, sealed behind the glass
UV sterilisation	UV lamps 253.7 nm in the work zone and the pass box
Work zone	SUS304 stainless steel, smooth surfaces resistant to chemicals and disinfectants
Body	Cold-rolled steel with antibacterial powder coating
Drain	Drain valve
Power consumption	1300 W
Power supply	AC 220 V ± 10 %, 50/60 Hz; 110 V ± 10 %, 60 Hz
Gross weight	450 kg

BSCAB15 • dimensions and options

Dimensions, installation and configuration options

DIMENSIONS

Dimensions

Order code (SKU)	PRO4872
Work zone W × D × H	1165 × 650 × 660 mm
External W × D × H	1790 × 880 × 2080 mm
Pass box, internal	430 × 330 × 355 mm
Pass box, external	575 × 425 × 495 mm
Package W × D × H	1890 × 1065 × 2250 mm

Installation

Check door width and ceiling height against the external and package dimensions; the cabinet is delivered on a base stand.

Plan the exhaust duct route if the optional duct connection is ordered.

Power supply 220 V / 50–60 Hz, 1300 W.

Options

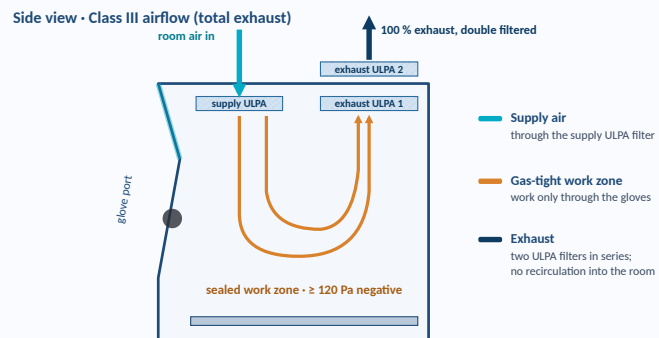
Available on the user's request. The configuration is agreed with the order and confirmed in the quotation.

Exhaust duct connection	Connection of the double-filtered exhaust to a dedicated duct leading outside the building BSL-3 / BSL-4 rooms, building exhaust systems
Decontamination system	Integrated decontamination of the whole gas-tight cabinet with formaldehyde, H ₂ O ₂ or equivalent; hermetic decontamination port, valves and connectors for the decontamination gas periodic and pre-service decontamination
Pass box interlock and port alarm	Interlock between the inner and outer pass-box doors; visual and audible alarm for unsafe opening of ports safe transfer of materials
Airflow sensor	Airflow measurement in addition to the pressure sensor continuous airflow monitoring
Data logging	Recording of pressure, alarms and operating data documentation and audits
Internal electrical sockets	Protected sockets inside the work zone, custom made on the user's request small instruments inside the cabinet

BSCAB15 • configuration and support

Ordering information, configuration checklist and contact

CONFIGURATION AND SUPPORT



BSCAB15 • Class III airflow: ULPA supply, gas-tight work zone, double ULPA exhaust

Ordering information

Model	BSCAB15 Biological Safety Cabinet Class III
Order code	SKU PRO4872
Standard delivery	Cabinet on base stand, pass box, 1 pair of butyl gloves, LED lighting, UV lamps, remote control, pressure meter, drain valve, CE Declaration of Conformity
Options	Exhaust duct connection • decontamination system with port and valves • pass box interlock and port alarm • airflow sensor • data logging • internal sockets

Configuration checklist

Work: agents and risk group, materials transferred through the pass box.

Room: door width, ceiling height, exhaust duct route.

Documentation: decontamination method, data logging, tests on installation.

SALES AND SUPPORT

COLO Lab Experts
Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: send the agents you work with, the room layout and the required options — we confirm the configuration and delivery time with the quotation.

QUICK CONTACT

🌐 colo.si

✉ sales@colo.si

☎ **+386 70 713 437**

COLO.SCIENCE • BIOSAFETY SUPPORT

Planning a high-containment workplace?

Tell us what you work with and how the room is equipped — we propose the configuration and confirm it with the quotation.

[Request quotation](#)

sales@colo.si

[+386 70 713 437](tel:+38670713437)

Design and specifications may be changed without prior notice. Values refer to standard laboratory conditions.