

# SYSTEM OF BIOLOGICAL PROTECTION

## BIO-BAG EBV-30/40

The BIO-BAG EBV-30/40 is a mobile device determined for primary transport of individuals suspected of highly dangerous infection or individuals touched by microbiological agents from contaminated place to a stationary plant designated to treat such individuals. The BIO-BAG EBV-30/40 can be even used for transportation of patients with hypo-immunity in order to protect them from an "impure" environment.

- availability of switching negative or positive pressure modes
- produced by a manufacturing technology using high-frequency welding
- large through views enable supervision of patient's condition
- integrated gloves for basic medical treatment during transport
- perfect patient fixation system during transportation
- breathing support incoming port is optimized in order to connect all standard medical connectors
- ports for infusions, drains, cardiograph electrodes
- attached filtration-ventilation unit provides sufficient amount of filtered air, so that patient's blood CO<sub>2</sub> concentration is not above the limit
- quality of filtered air is ensured by appropriate filters, placed both on inlet and outlet of the suit, all the viruses, bacteria and aerosols are captured
- minimum operating time of filtration-ventilation unit is 4 hours
- can be decontaminated and reused - filters are designed for safe decontamination process even in case of usage a solution as is organic acid peroxide acetic
- design with special hermetic zipper avoids any liquid coming out/in
- rapid set-up into operation
- simple maintenance
- in the negative pressure mode, it offers standard of protection BSL-3

## TRANSPORT BY AMBULANCE CAR



## IMPLEMENTED INNOVATIONS



Bio-Bag is equipped with parts for passive safety. It is an adjustable five-point fixation system with central buckle which enables a safe fixation of patient during transport.



### INNOVATION OF PATIENT FIXATION SYSTEM

## INNOVATION OF SLEEVES AND REMOVABLE GLOVES

New fabric used for treatment sleeves enables sensitive contact with patient. The fabric is more flexible in low temperature as well and the fabric doesn't solidify. The gloves are connected to sleeves through new special ring system. This system allows an easy gloves replacement (various sizes etc.).



## SPECIAL INPUT PORTS FOR USAGE OF VARIOUS TYPE OF BREATHING DEVICE

This special port enables a connection of all types of ventilator in order to provide breathing support.





The Bio-bag EBV - 30/40 can be used in two different modes:

- 1) Negative pressure mode - used to protect the outer environment from an infected patient
  - primary transportation of a person suspected of carrying a highly dangerous infection
  - secondary transportation of a person affected by microbiological agents within a specialized facility
- 2) Positive pressure mode - used to protect patients from a contaminated outer environment  
It is designed to transport a patient with lowered immunity (burns, ...), as protection against an „unclean“ environment.

The Bio-bag EBV - 30/40 is a product that offers a high-degree of protection from exposure to life-threatening influences within a surrounding environment, such as highly contagious viruses and bacteria.

The Bio-bag can be used in areas where the oxygen content in the air ranges from 18 % to 23 % Vol.

## DESIGN OF COMPLETE SET BIO-BAG EBV-30/40

Individual components of Bio-Bag	Number of pieces
Transportation bag	1
Tubular frame (set of 8 aluminum tubes)	1
Longitudinal polyamide (PAD) spreader pole	4
Filtration-ventilation unit Clean-Air Medical	1
Filter PSL P3 (with double-sided thread gauge)	1
Filter P3 modified for chemical protection (with one-sided thread gauge)	4
Rubber filter cap	4
Accumulator	2
Accumulator charger NiMH 230V/50Hz	2
Plug connector	8
Female threaded cap (RD 40x1/7")	2
Male threaded cap (RD 40x1/7")	2
Repair Kit	1
Carry-on bag	1
User Manual	1



## TECHNICAL DATA

Technical data of Bio-Bag	
Dimensions:	
Unfolded dimensions:	203 x 64 x 44.5 cm (L x W x H)
Folded dimensions:	98 x 22 x 60 cm (L x W x H)
Weight:	
Weight of the protective bag without the FV units:	11 kg
Overall weight:	14 kg



Protection class	
Negative pressure mode:	BSL3
Positive pressure mode:	TH3
Initial volume flow rate:	180 dm³/min
Minimum volume flow rate:	150 dm³/min
Hours of operation:	up to 5 hours



## CERTIFICATION



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