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EMERGENCY SYSTEM

SYSTEM OF BIOLOGICAL PROTECTION

DECONTAMINATION SYSTEM

TENT SYSTEM

EMERGENCY SYSTEM

CATALOG EGO

EMERGENCY SYSTEM

Vacuum fixation splints
Vacuum fixation mattresses
Transport and rescue products
Rucksacks, bags and medical cases
References

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EMERGENCY SYSTEM

SPECIAL TRANSPORT VEHICLE FOR INFECTIOUS PATIENT

The aim is the safe transport of patient with the occurrence of highly dangerous disease (EBOLA, SARS, LASSA and possibly affected by dangerous chemical substances or radiation affection) to specialized health care facility while ensuring stricter conditions to protect public health.

Equipment of special transport vehicle

1) 1 pc Biobag EBV-30/40
2) 1 pc Stretcher MEDIROL
3) 4 pcs EOBO 20/P included filter-ventilation unit (FVU) with filterst with removable gloves (O-ring system) – orange colour
   Or the protective set EPP - 10 „Profi protection“ – yellow colour
4) 1 pc Rucksack with equipment
5) 1 pc Pathological bag
6) 1 pc Pool for decontamination
7) 1 pc Mechanical pump (for inflating of pool)
8) Basin 10 l for decontamination solution
9) Hand-operated decontamination 10L
10) Decontamination solution
11) 2 pcs container for biological waste 60 l
12) Medical gases
13) Respirator
14) Hanger for infusion solution and medication

EMERGENCY SYSTEM

VACUUM FIXATION SPLINTS

The vacuum fixation splints have multiple uses and ensure considerable stability and fixation of injured body parts in required positions when first aid is given.

ADVANTAGES

- They suit any patient body shape
- Great thermal insulation
- X-ray porous
- Easy and fast serviceability without usage of the outside pressure
- Stable, durable and compact construction
- Washable and disinfectable
- Can be used in wide range of temperatures
- Maximum safety and comfort for a patient
- Multiple uses save a lot of money
- Low weight

VACUUM SPLINT COLLECTION

	dimension (cm)	weight (g)
ES - 10 Vacuum arm splint	67 x 34	500
ES - 10/1 Vacuum arm splint, angled	65 x 55	600
ES - 11 Vacuum leg splint	100 x 68	1500
ES - 12 Vacuum fixation splint with foot suport „S“	90 x 54	1100
ES - 13 Vacuum neck splint	65 x 20	300
ES - 14 Child size vacuum arm splint	54 x 32	400
ES - 15 Child size vacuum leg splint	73 x 54	1000
ES - 16 Vacuum fixation splint with foot suport „L“	130 x 68	1900
ES - 40 Vacuum compressive pelvic splint	30 x 28	700

ES - 10/1

ES - 10

ES - 11

ES - 15

ES - 14

ES - 40

VACUUM SPLINT SETS

- ES - 30 Unit set of splints with carry bag consists (ES - 10, ES - 11, ES - 13, ES - 20, ES - 22, ES - 21)
- ES - 33 Unit set of splints with rucksack consists (ES - 10, ES - 11, ES - 13, ES - 20, ES - 22, ES - 23)

EQUIPMENT

- ES - 20 Small evacuation hand pump
- ES - 21 Carry bag for splints
- ES - 22 Repair kit wit spare valve
- ES - 23 Rucksack for splints

ES - 21

ES - 23

ES - 20

ES - 22

The vacuum fixation splints are approved by The State Institute for Drug Control, are certified by TŰV and have NATO Stock Numbers.

EMERGENCY SYSTEM

EMERGENCY SYSTEM

VACUUM FIXATION MATTRESSES

These ensure perfect fixation of the whole body which is absolutely essential in case of back or pelvis injury, so that a patient is transported to hospital like being in a plaster cast.

ADVANTAGES

- Suit any patient body shape
- Great thermal insulation
- X-ray porous
- Easy and fast serviceability without usage of the outside pressure
- Stable, durable and compact construction
- Washable and disinfectable
- Can be used in wide range of temperatures
- Maximum safety and comfort for a patient
- Multiple uses save a lot of money
- Low weight

VACUUM MATTRESS COLLECTION

			dimensions (cm)	weight (g)
■	EM -10/1	Vacuum mattress in the cover with washable bottom	200 x 80	5700
■	EM -10/2	Vacuum mattress in washable cover	200 x 80	5700
■	EM -10/4	Vacuum mattress in the cover with body protection	200 x 80	5700
■	EM -10/7	Multi-chambers mattress	200 x 80	7100
■	EM -10/7AS	Vacuum mattress	200 x 80	7100
■	EM -10/7RS	Vacuum mattress	200 x 85	5500
■	EM -10/7RL	Vacuum mattress	200 x 85	5500
			110 x 57	4200

EM-10/1

EM-10/2

EM-10/4

EM-10/7

EM-10/7AS

EM-10/7RS

EM-10/7RL

EM-10/2

EQUIPMENT

- EM - 20 Big evacuation pump with a pedal
- EM - 21 Carry bag for set of mattress
- EM - 23 Rucksack for set of mattresse
- EM - 02 Textile cover for vacuum mattress
- EM - 02/1 Cover for mattress with washable bottom
- EM - 02/2 Cover for mattress - washable
- EM - 02/4 Cover for mattress with body protection
- EM - 20/C Two - way Plastic Pump

EM-20

EM-20/C

EM-21

VACUUM MATTRESS SETS

(each set contains a mattress in an appropriate package, an evacuation pump, a bag or rucksack)

		dimensions (cm)	weight (g)
■	EM - 30 Unit set of mattress in textile cover with carry bag	71 x 70 x 27	7200
■	EM - 33 Unit set of mattress in textile cover with rucksack	71 x 70 x 27	7300
■	EM - 30/1 Unit set of mattress in the cover with washable bottom with carry bag	71 x 70 x 27	7200
■	EM - 33/1 Unit set of mattress in the cover with washable botton with rucksack	71 x 70 x 27	7300
■	EM - 30/2 Unit set of mattress with washable cover with carry bag	71 x 70 x 27	7200
■	EM - 33/2 Unit set of mattress in washable cover with rucksack	71 x 70 x 27	7300
■	EM - 30/4 Unit set of mattress in the cover with body protection with carry bag	71 x 70 x 27	7600
■	EM - 33/4 Unit set of mattress in the cover with body protection with rucksack	71 x 70 x 27	7700

In conformity with EN 1865-1

VACUUM FIXATION MATTRESSES

EM-10/7 VACUUM FIXATION MATTRESS, multi - chambers

Vacuum fixation mattress with fourteen inside chambers for excellent and quick fixation of injured person.

The basic information:

- extremly tenacious
- four fixation belts for patient
- one belt for fixation head
- eight handles for transporation
- very simple way of transportation the patient
- it isn´t necessary any transportation bag

Dimension:	200 x 80 cm
Dimension in packed position:	80 x 65 cm

EM - 10/7AS

Vacuum fixation mattress EM-10/7 AS

Antislide plastic pad

Removable buttom part

Mattress in packed position (handle for easy transport)

EM - 10/1

Vacuum fixation mattress EM-10/7 including vacuum comprehesive pelvic splint ES-40

Accessories: EM-20 Vacuum pump with pedal.

In conformity with EN 1865-1

EMERGENCY SYSTEM

VACUUM FIXATION MATTRESSES

EM-10/RS VACUUM FIXATION MATTRESS

This type for vacuum fixation mattress – many times usable medical device designed for safe stabilization and transport of patient in required position. The mattress is made from high quality textile both-sided coating with PVC. The filling is put in special twelve chambers in order to avoid an undesirable moving of filling and the manipulation takes shorter time. Plastic reinforcement placed in pelvic part enable to lower filling's capacity and total weight in eventuality. One part of mattress is protective floor connected to mattress firmly. The protective floor is equipped with 8 holders and 3 belts.

Advantages:
- Suitable for any body shape of patient
- Easy and quick usage
- Suitable for X-Ray
- Easy washable and disinfection
- Used in wide temperature scale
- Perfect thermal isolation
- Lower weight

In conformity with EN 1865-1

EM-10/RL VACUUM FIXATION MATTRESS

This type of vacuum fixation mattress is designed for secondary transport of patient in medical facilities. The mattress is made from textile both sided coating with PVC. The filling is put in special twelve chambers in order to avoid an undesirable moving of filling and the manipulation takes shorter time. Plastic reinforcement placed in pelvic part enable to lower filling's capacity and total weight in eventuality. The mattress is equipped with 8 holders and 3 fixation belts.

Advantages:
- Suitable for any body shape of patient
- Easy and quick usage
- Suitable for X-Ray
- Easy washable and disinfection
- Used in wide temperature scale
- Perfect thermal isolation
- Lower weight

- **Dimension:** 85 x 200 cm
- **Weight:** 5,5 kg

In conformity with EN 1865-1

VACUUM FIXATION MATTRESSES

EZS-10 PEDIATRIC RESTRAINT AND TRANSPORT SYSTEM

Pediatric restraint and transport system is an universal multitimes usable device which enables a quick fixation and safe transport of injured child usable not only for standard ambulance service but also by aerial, mountain or other else first-aid responder organizations.
The main elements are adjustable five-point fixation system, removable vacuum or strip liner and fastening system for the medical stretcher frame.

■ The whole system is designed as an unique sliding pelvic harness allows an optimal patient fixation according to his body size (max. weight 22 kg and max. height 130 cm).

■ By using of a vacuum liner can be the patient fixed on place directly and transported in the fixed position to medical treatment place. The lamella liner is used only for transport and is not a part of the standard equipment.

■ Handles placed on the sides make it easy to transport.

■ Attachment to the transport stretcher is secured by four side straps with plastic buckles. Additionally, through the push-through eye on the bottom of the system can be ensured to the stratcher safety belts.

■ The whole system includes quality components, especially the strength straps and buckles, providing a safe transport.

■ The product is registered in the register of designs.

The part of system is:
■ vacuum liner
■ forehead belt

Upstandard equipment:
■ vacuum pump
■ lamella liner

Dimensions:
■ width 57 cm
■ length 110 cm

Weight:
■ without liner 2,95 kg
■ vacuum liner 1,25 kg
■ lamella liner

In conformity with EN 1865-1 including EN 1789

EMERGENCY SYSTEM

TRANSPORT AND RESCUE PRODUCTS

EZD-10/K SPINAL FIXATION CORSET

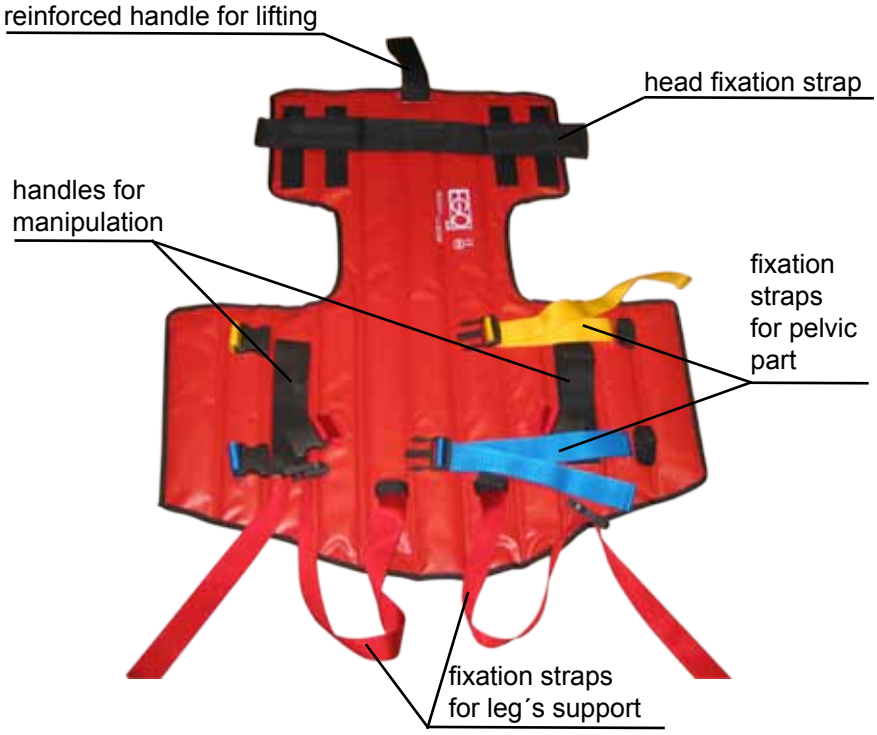
Is modern and many times reusable device for gentle stabilization and fixation of spine and head for safe transport. The spinal fixation corset is intended for spinal column and head fixation of injured patient and his extraction in case of emergency situation (crash accident).

The corset enables easy insertion behind wounded person and patient's position is fixed by the 4 fixation straps with plastic buckles (blue and yellow for pelvic part, red for leg´s support) and 2 removable fixation strap for head part. The head strap is made from soft material in order to ensure comfort position for patient. The patient can be lifted up by reinforced belt placed in head part and for easy manipulation can be used 2 belts in pelvic part. Into the corset are put wooden bars sealed by HF welding.

It is suitable for X-ray.

Technical parameters:

- **High: 87 cm**
- **Maximum width: 84 cm**
- **Weight: 2,5 kg**



TRANSPORT AND RESCUE PRODUCTS

RESCUE, TRANSPORT AND FIXATION GEAR

EGO Zlín, Ltd rescue transport gear - designed for patient transportation in all medical institutions, narrow locations (elevators, stairs), and transportation of injured from an accident site etc. They are washable and disinfectable by common cleaning agents.

TRANSPORT RESCUE SHEETS	dimension (cm)	weight (g)	carrying capacity (kg)
■ VP - 10 Transport stretcher sheet wit foot pocked	200 x 90	1600	140
■ VP - 20 Transport stretcher seat	92 x 45 x 36	500	140
■ VP - 40 Transport stretcher sheet XXL	140 x 204	3600	280

EQUIPMENT

- VP - 12 Bag for transport stretcher sheet VP-10
- VP - 21 Bag for transport stretcher seat
- VP - 21/XXL Bag for transport stretcher sheet XXL

VP - 10

VP - 40

VP - 20

VP - 10/V

DIVISIBLE TRANSPORT STRETCHERS

	dimension (cm)	weight (g)	carrying capacity (kg)
■ ET - 10 Separable transport stretcher	195 x 72	3000	120

EQUIPMENT ■ ET - 21 Bag for separable transport stretcher

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TRANSPORT AND RESCUE PRODUCTS

EPD-10 SPINE BOARD + FIXATION STRAPS

The spine board is made from rigid plastic material. The board is easy washable and disinfected, 100% X-Ray translucent and without any steel parts. The board includes a fixation straps with velcro ending. It is compatible with all type of head immobilizer. Color-coded fixation straps.

Material:	Spine board: HDPE Fixation straps: polyester
Loading capacity:	maximally 159 kg
Weight:	Spine board 7 kg Fixation straps 0,5 kg
Dimension:	181 x 44 x 5 cm

ESR-10 SCOOP RAM

The frame is made of anticorrosive aluminum, with 6 handles placed on the longitudinal sides. Folded lengthwise.

Materiál	Aluminium
Loading capacity	maximally 160 kg
Weight	scoop stretcher 9,3 kg fixation straps 0,3 kg
Dimensions	210 x 43 x 6 cm (UNFOLDED) 168 x 43 x 6 cm (FOLDED)

EZN-10 RESCUE STRETCHER

The stretcher is made of anodized aluminum anticorrosion, coated by PVC material that is washable and non-flammable. They consist lengthwise and crosswise.

Material	Aluminium Surface area: PVC (non-flammable)
Loading capacity	maximally 159 kg
Weight	stretcher 4,85 kg, cover 0,3 kg
Dimensions	207 x 56 x14 cm (unfolded) 103 x 18 x 9 cm (folded)

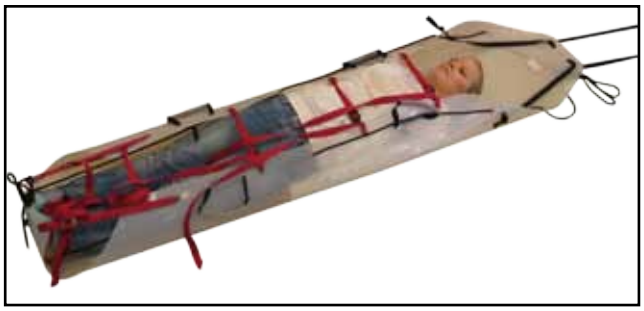
TRANSPORT AND RESCUE PRODUCTS

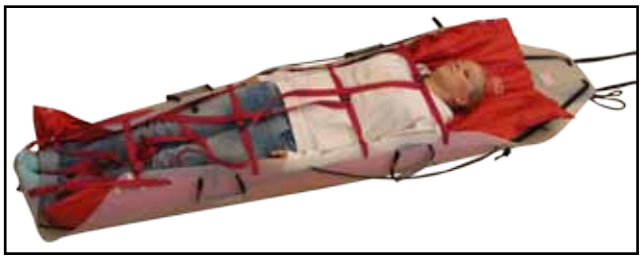
ESN-10 TRANSPORT SKELETAL STRETCHER

Transport skeletal stretcher ESN-10 is new product in range of product used for providing a first aid, fixation and safe transport of injured person.

This stretcher is possible to use in case of necessity to lift a person from hard accessible or narrow places (sumps, holes, gorges etc.) by help of cord and cable drum. The stretcher is also used for pulling a person on any surface (stairs, road metal, stones etc.) without uncomfortable feeling of patient.

The stretcher can be also equipped with hanging rope for transport by helicopter, vacuum fixation mattress including accessories (individual pack) for perfect body fixation or floating system with weight for rescue of drowning person.





Basic set consists of:

- Skeletal stretcher made from high-density polyethylene (HDPE)
- Fixation belts with buckles
- 2 handles on each lateral side
- Cord with PUR handle for pulling of stretcher on rough surface

Dimension:

■ In fully folded position	240 cm x 93 cm
■ In packed position	30 x 20,5 x 93 cm
Loading capacity:	150 kg

Weight:

■ Basic set	4,3 kg
■ Hanging system under helicopter	1,2 kg
■ Special cord for lifting a stretcher	0,5 kg
■ Floating system	4,6 kg

Total weight including transport bag (excluding vacuum fixation mattress and its accessories) 11,5 kg

Above-standard accessories consists of:

- Special cord for lifting a stretcher from narrow places
- Hanging system under helicopter
- Floating system (2 pcs of inflation floats, 1 pc of inflation cushion and 1 pc of weight for stabilization)
- Vacuum fixation mattress including accessories (vacuum pump with pedal, transport bag)
- Transport bag for basic set and all above standard accessories (excluding vacuum fixation mattress and itsaccessories)

TRANSPORT AND RESCUE PRODUCTS

ZV-10 HANGING GRIPSAK UNDER THE HELICOPTER FOR INFANT

The hanging gripsak under the helicopter for infant have multiple uses and is used for fast transport of injured person by aerial or mountain services, or for saving the persons at fires or other disasters.

The bag serves for patient's protection against weather effects as well as prevention from catching cold. The vacuum fixation mattress with cover EM-10 is put at the bottom of the suspension bag. After laying and fixing of the patient over chest and hips, the vacuum pump is used for shaping and ensures such a manner the stiffness needed of the whole system.

This product is made from polyamide textile materials, straps and ropes, using stitch technology. Fixing and suspending metal parts are used from the assortment of mountaineering and aeronautics.

The hanging gripsak consists of:
- ZV – 10 - Suspension bag
- EM – 10 - Vacuum fixation mattress with cover
- EM – 20 - Vacuum pump with pedal

weight: 3,5 kg
dimensions: 90 x 38 x 25 cm

The suspension bag consists of special thermal cover with covering of headed part joined by zipper, 6 suspension ropes which are joined by one special secure buckle on the end and 3 over body straps with plastic buckles.

ZV-10 HANGING GRIPSAK UNDER THE HELICOPTER

HELICOPTER SUSPENDED BAG
Designed for a fast transportation of injured people by air rescue services, mountain rescue services and when rescuing people from fire, mining disasters, natural disasters.

	dimension (cm)	weight (g)
■ **ZV - 10 Hanging gripsack under the helicopter**	**220 x 80 x 25**	**9200**

EQUIPMENT
- EM - 10 Vacuum mattress
- EM - 20 Big evacuation pump with a pedal

RUCKSACKS, BAGS AND MEDICAL CASES

ER-10 EMERGENCY RUCKSACK

They offer an optimum load-bearing system, have high mechanical-physical and utility parameters, the pelvic belt ensures fixation and support of hip loading, removable transparent inner pockets. ER-10 rucksacks have an oxygen bottle loops and removable ampoule containers.

dimensions (cm): 65 x 40 x 23
weight (kg): 3,75

ER-20 RESCUE RUCKSACK

Colour coded inner pockets. Back straps, hand straps. ER-20 Rucksacks have removable ampoule containers

dimensions (cm): 53 x 29 x 18
weight (kg): 1,5

ER-30 RESUSCITATION BACKPACK „OXY“

Professional resuscitation OXY backpack for rescuers and doctors. The backpack is designed for oxygen bottles with a volume of 2 liters with the integrated valve and hose. There is also space for the ventilator, inside and also outside there are pockets to store additional medical supplies, such as rubber gloves, thermofoil etc.. It provides easy access to stored equipment.

Basic characteristic:

- developed for rapid intervention in the supply of oxygen
- resistant to dirt and scratches
- reflective, high-quality zippers and straps for attaching to the construction of any medical stretcher
- red colour

dimensions (cm): 54 x 38 x 18
weight (kg): 2,3

RUCKSACKS, BAGS AND MEDICAL CASES

ER-55 CPR RUCKSACK LARGE

The bag is furnished with a specific system of anchoring the central partition. The lateral straps hold this partition in a vertical position. This keeps the hollows separated, and enables the access to all interior parts of the bag. Transport of the bag is ensured by one handgrip on upper part, as well as a pair of shoulder straps on a back side.
The most frequently used equipment is quickly accessible, without a need to open the entire bag. Another innovation is the access to a bottle of Oxygen (2 l), enabled by a zipper above the back area. Opening of the mentioned pockets is possible in a vertical position. Opening doesn't require any additional space. The back chamber with velcros allows variable attachment of cases with the equipment, alternatively segmentation of the area with the filled partitions.

- rucksack is made from washable, hard, durable material (exterior but also the interior
- option to save oxygen bottle (2 l), quick access to it, also directly from the outside
- practical and space - saving arrangement
- large variability - self-arrangement
- transparent pockets, cases
- side pockets for accessories: gloves, foils, bags, health container
- replaceable inserts (in case of significant damage or dirties)
- design with reflective tapes to ensure visibility even in unfolding
- handle on the top of the bag
- design with backstraps structure
- cover for backstraps
- internal pockets can be furnished by labels

Dimensions: 400 x 290 x 620 mm (width x depth x height)
Weight: 4,4 kg





RUCKSACKS, BAGS AND MEDICAL CASES

ER-50 CPR RUCKSACK SMALL

The front back wall with safety lateral belts enables easy acces into large pocket with ampulatorium in case of oppening in a vertical position. The back chamber with velcros allows variable attachment of cases with the equipment, alternatively segmentation of the area with the filled partitions. Velcro on the sides fix additional pads for mounting equipment. The bottom part is protected by resistance material in deep color.

- rucksack is made from washable, hard, durable material (exterior but also the interior)
- option to save oxygen bottle, quick access to it
- practical and space-saving arrangement
- large variability - self-arrangement
- transparent pockets, cases
- modular partitions + Velcro zipper fixation
- side pockets for accessories: gloves, foils, bags, health container
- replaceable inserts (in case of significant damage or dirties)
- design with reflective tapes to ensure visibility even in unfolding
- handle on the top of the bag
- design with backstraps structure

Dimensions: 400 x 180 x 620 mm (width x depth x height)
Weight: 3,8 kg

RUCKSACKS, BAGS AND MEDICAL CASES

EK-10 CASE FOR BANDAGES

Well-organized bandage storage, surgical tools, etc.

dimensions (cm): 60 x 40 x 15
weight (kg): 2,2


EK-20 BAG FOR BANDAGES

The solid bag bottom has two partitions, fastened to the bottom by Velcro and can be arranged according to usage. The bag cover is designed for storage of bandages, small tools and other needed materials. It is equipped with back straps.

dimensions (cm): 45 x 24 x 27
weight (kg): 1,5


EK-20/1 BAG FOR MEDICAL EQUIPMENT

The bag is designed with solid frame divided into two chambers. The bottom chamber is equipped with removable walls including a holder for oxygen bottle (2 l). The upper chamber is equipped with 3 transparent removable cases, pockets made from mesh and tabs. The upper chamber is closable by a sheet with zipper (this sheet is equipped with another pocket).
The interior is made from soft coated fabric and enables easy maintenance. The exterior is made from solid attritionproof fabric with coating and enables easy maintenance as well. The bag is equipped with reflexive tapes in the front side and along periphery for better visibility.

dimensions (cm): 49 x 29 x 30
weight (kg): 2,4


RUCKSACKS, BAGS AND MEDICAL CASES

EK-30 PARAMEDIC BAGS

There are three pockets with zippers on the outside of each bag, and four transparent colour coded pockets with zippers inside each bag. Another three transparent pockets are in the space between the inner partition and bag cover, the space is equipped with a Velcro fastener. The paramedic bags are equipped with back straps.

dimensions (cm): 30 x 30 x 10
weight (kg): 0,5

EK-40 MEDICAL CASE

Each case has two locks and a stiffening frame, washable interiors.There are 4 removable sections for various sized ampoules in the case cover. There are transparent pockets with Velcro fasteners on partitions. There is a removable document holder and a double bottom for drugs storage in the case. The cases are made of red plastic leather.

dimensions (cm): 45 x 34 x 14
weight (kg): 3

ED-10 WRITING CASE

This writing case is designated especially for Rescue Service crews, meant for storing records of the nursed patients, and all the documentation required while providing the rescue service itself.

dimensions (cm): 29 x 35,5 x 4,5
weight (kg): 0,90

RUCKSACKS, BAGS AND MEDICAL CASES

ED-20 WRITING CASE WITH

The set of pads serves not just as an excellent aid to speed-up implementation of the documentation while classification of the injured, within exceptional incidents with a high number of victims and injured.

dimensions (cm): 29 x 35,5 x 4,5
weight (kg): 1,4

A-2/10 AMPULARIUM

Ampularium not only for emergency medical services is designed for up to 81 ampoules. Solid, easily transparent, reinforced rigid panels are removable, from the outside there is an incorporated filler, protecting from mechanical damage.

dimensions (cm): 32 x 24 x 10
weight (kg): 0,8

RESCUE WAIST BELT-BAGS

Two sizes

LL - 10 Rescue waist belt - bag, small 29 x 7 x 10 cm 200 g
LL - 20 Rescue waist belt - bag, large 29 x 18 x 13 cm 300 g

REFERENCES

- The company ELS – Equipment for Logistics System GmbH, Germany, equipment for Integrated rescue system, that was used on territory Romania
- The Ministry of Health of Ukraine, products for rescue system (vacuum fixation mattresses and splints)
- The Ministry of Health of Finland, products for rescue system (vacuum fixation splints)
- The Ministry of Health of Lithuania, products for rescue system (vacuum fixation mattress and splints, medical cases etc.)
- The Ministry of Defence of United State of America, products for rescue system (overalls for fixation splints)
- The Ministry of Health of Slovakia, products for rescue system (vacuum fixation mattresses and splints, emergency rucksacks, bag for dressing material)
- The Ministry of Health of Slovakia, vacuum fixation mattresses and splints for ensuring the „World championat in ice-hockey, Bratislava 2011“
- The Ministry of Health of Belgium, products for rescue system (vacuum fixation splints)
- The Ambulances in Sweden, products for rescue system (vacuum fixation mattresses and splints)
- The Red Cross in Austria, products for rescue system (vacuum fixation mattresses and splints,emergency rucksacks, rescue rucksack, medical cases etc.)
- The the Red Cross of Austria – vacuum fixation splints and mattresses for ensuring of the European football championship 2008
- The Ambulances in Switzerland, products for rescue system (vacuum fixation mattres ses and splints)
- The Ministry of Health of Croatia, products for rescue system (vacuum fixation mattresses and splints, medical cases etc.)
- The Ministry of Defence, Estonia, products for rescue system (vacuum fixation mattresses and splints)
- The Ministry of Health of Australia and New Zealand, products for rescue system (vacuum fixation mattresses and splints)
- The Ministry of Defence of Poland, products for rescue system (vacuum fixation mattresses and splints)
- The Ministry of Health of Poland, vacuum fixation mattresses and splints for ensuring the „European championat in Football 2012“
- The Ministry of Defence of Australia, products for rescue system (vacuum fixation mattresses and splints)
- The Ministry of Health of Lithuania, vacuum fixation mattresses for the tender concerning supplying of 160 pieces of ambulance cars
- The Ministry of Health of Czech Republic emergency products for rescue system for ensuring of the World ice-hockey championship 2003 in Prague
- The Ministry of Health (the Administration of material reserves) of Slovakia – 280 pcs of Traction splint ES-TD
- The Ministry of Health of Norway, products for rescue system (vacuum fixation mattresses and splints)
- The Ministry of Health of Russia, products for rescue system (vacuum fixation mattress and splints, medical cases etc.)
- To each region of Czech Republic (Integrated rescue system – ambulances, police, fire brigades, the Army, the Red Cross,..) - emergency products for rescue system (vacuum fixation mattresses and splints, emergency rucksacks, bags for dressing material) continually

EMERGENCY SYSTEM

SYSTEM OF BIOLOGICAL PROTECTION

CATALOG EGO

SYSTEM OF BIOLOGICAL PROTECTION

Individual protection
Patient transport
Temporary hospitalization
Isolation and hospitalization
Long-Term hospitalization, isolation and treatment
References

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SYSTEM OF BIOLOGICAL PROTECTION

Currently, we observe large migration flows of population especially in the context of local wars and civil wars, persecution or poverty. This migration affects also countries with less developed infrastructure and health care, where protection against highly virulent infections almost does not exist.

In the past, people were repeatedly attacked by various illnesses, for example plague, typhoid, cholera, malaria, which some of them still trouble the population and it is very difficult if impossible to eradicate these diseases. Also, over the years it leads to the appearance of new and highly dangerous diseases threatening the whole continents. The evidence of that are facts of World Health Organization regarding the occurrence of highly infectious diseases such Ebola (more than 60 %) or MERS-CoV (more than 30 %). Highly infectious diseases do not know the borders and if we are not prepared, these infectious diseases can cause the panic which can paralyze the health care system with incalculable consequences.

It is also necessary to take into consideration terrorist attacks, which means significant threat to the population and it is necessary to count that they may also include weapons of mass destruction, including biological agents.

In summary, in case of insufficient protection of the population and medical personnel can the situation with the occurrence of dangerous infection occur until stage of epidemics or pandemics.
Creating an effective system for fast response requires vigilance, implementation of methodology and training and proper cooperation of crisis management such as hospitals, local and state health authorities, security forces, including the government forces.

INDIVIDUAL PROTECTION

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OPTIMAL SOLUTION FOR A BIOLOGICAL PROTECTION PROCESS

The consequences of biological emergencies may stretch national capabilities to their maximal extent in the connection with a high migration, natural catastrophes, an epidemic situation etc. where there is a high risk of the spread of dangerous diseases. It is necessary to solve the situation immediately, to establish a proper emergency process in the location, and to eliminate the possibility of the spread of the diseases in order to protect lives of people.

References

Brasil

Canada

Czech Republic

Russia

INDIVIDUAL PROTECTION

SET OF PERSONAL PROTECTIVE MEANS

Protective set „Simple Protection“ ESP-10	Protective set „Middle Protection“ EMP-10	Protective set „Profi Protection“ EPP-10
Chemical and biological suit	*Chemical and biological suit*	*Chemical and biological suit*
Protective glasses	*Protective hood EOK-10/P*	*Protective hood EOK-10/P*
Respiratory mask FFP3	*FVU Proflow 2SC*	*FVU Proflow 2SC*
Protective gloves LATEX, 2 pairs	*Combined filter, 2 pcs*	*Combined filter, 2 pcs*
Protective nitrile gloves,1 pair	*Protective gloves LATEX, 2 pairs*	*Protective gloves LATEX, 2 pairs*
Chemical protective boots	*Chemical protective boots*	*Chemical protective boots*
Adhesive tape „EGO“, 8 m	*Adhesive tape „EGO“, 8 m*	*Bag for bio-waste, 2 pcs*
Scissors	*Scissors*	*Tightening tape, 3 pcs*
Bag for bio-waste, 2 pcs	*Bag for bio-waste, 2 pcs*	*Pack for set*
Tightening tape, 3 pcs	*Tightening tape, 3 pcs*	
Pack for set	*Pack for set*	

ACCESSORIES

ADVANTAGES + PROPERTIES OF SET

1. resistance against biological, chemical and radioactive substances (ČSN EN 14605, ČSN EN 14126, ČSN EN 1073-2)
2. each of part of set meets the required regulations
3. sets of protective equipment are ready for immediate use

OPTIONAL ACCESSORIES - SHOECOVERS

SYSTEM OF BIOLOGICAL PROTECTION

INDIVIDUAL PROTECTION

PROTECTIVE SET ESP-10 - „SIMPLE PROTECTION“

Protective biological and chemical protective suit with a respirator / face mask and protective glasses provides optimum protection against dust, solid particles, aerosols, liquid organic and concentrated inorganic chemicals (also under pressure), against biological hazardous substances, radioactive substances and military warfare agents. It is classified in category III, type 3B, 4, 5 and 6 and meets the requirements of the following standards: EN 14605, EN 14126 and EN 1073-2.

Protective suit:

- design
- elasticated hood with a protective flap over the chin
- double elastic sleeve (inner part is provided with a rubber band on the thumb)
- a system of double zipper with overlap
- tight sewn seams
- material: CPM („chemical protection material)
- antistatic treatment
- the overall structural design of the suit allows users problem-free repeated use during trainings and practicing of medical staff

Contents of set:

Biological and chemical suit (sizes M, L, XL, XXL, XXXL)	*Chemical protective boots (sizes 38-48)*
Protective sealing glasses	*Adhesive tape „EGO“, 8 m*
Respiratory mask FFP3	*Scissors*
Protective gloves LATEX, 2 pairs	*Bag for biological waste, 2 pcs*
Protective chemical nitrile gloves,1 pair	*Tightening tape, 3 pcs*
	Transport cover for set

Protective sealing glasses

Face mask with combined filter

Respiratory mask FFP3

INDIVIDUAL PROTECTION

PROTECTIVE SET EMP-10 MIDDLE PROTECTION

Biological and chemical protective suit with a pressurized hood provides optimum protection against dust, solid particles, aerosols and biological hazardous substances. It is classified in category III, type 4b, 5 and 6 and meets the requirements of the standards: EN 14605, EN 14126.

Protective suit:

- design:
- without elasticated hood
- elasticated sleeves and ankles, elasticated waist
- zip with self-adhesive overlap
- adaptable cut of crotch
- lamination of sewn seams – suit is decontaminable
- material: microporous film + layer of lamination
- antistatic treatment

Overpressure protective hood:

- overpressure protective hood ensures a high level of respiratory protection against effect of life-threatening environmental impacts
- inner space of protective hood is protected by internal overpressure of air supplied from filter-ventilation unit (FVU) with combined filters which is placed on the user‘s comfort belt
- FVU supplies sufficient amount of filtered air (at least 120 dm3 / min)
- FVU is equipped with a visual warning and acoustic signals. A fully charged battery guarantees a minimum operating time of 4 hours
- acceptable level of internal overpressure ensures one-way exhalation valve
- large-visor

Contents of set:

Biological and chemical suit (sizes M, L, XL, XXL, XXXL)	*Protective nitrile gloves*
Protective hood EOK-10/P	*Chemical protective boots (sizes 38-48)*
FVU Proflow	*Bag for biological waste, 2 pcs*
Combined filter, 2 pcs	*Tightening tape, 3 pcs*
Protective gloves LATEX, 2 pairs	*Transport cover for set*

SYSTEM OF BIOLOGICAL PROTECTION

INDIVIDUAL PROTECTION

PROTECTIVE SET EPP-10 - „PROFI PROTECTION“

Protective biological and chemical protective suit with a overpressure protective hood provides optimum protection against dust, solid particles, aerosols, liquid organic and concentrated inorganic chemicals (also under pressure), against biological hazardous substances, radioactive substances and military warfare agents. It is classified in category III, type 3B, 4, 5 and 6 and meets the requirements of the standards: EN 14605, EN 14126 and EN 1073-2.

Protective suit:

- design

- without elasticated hood, double elastic sleeve, double zipper with overlap

- integrated system of interchangeable gloves

- sewn and tape up seams

- material: CPM („chemical protection material)

- antistatic treatment, decontaminable

- the overall structural design of the suit allows users problem-free repeated use during trainings and practicing of medical staff

Overpressure protective hood:

- overpressure protective hood ensures a high level of respiratory protection against effect of life-threatening environmental impacts

- inner space of protective hood is protected by internal overpressure of air supplied from filter-ventilation unit (FVU) with combined filters which is placed on the user‘s comfort belt

- FVU supplies sufficient amount of filtered air (at least 120 dm3 / min)

- FVU is equipped with a visual warning and acoustic signals. A fully charged battery guarantees a minimum operating time of 4 hours

- acceptable level of internal overpressure ensures one-way exhalation valve

- large-visor

Contents of set:

Biological and chemical suit (sizes M, L, XL, XXL, XXXL)	*Protective integrated nitrile gloves*
Protective hood EOK-10/P	*Chemical protective boots (sizes 38-48)*
FVU Proflow	*Bag for biological waste, 2 pcs*
Combined filter, 2 pcs	*Tightening tape, 3 pcs*
Protective gloves LATEX, 2 pairs	*Transport cover for set*

INDIVIDUAL PROTECTION

SET OF PERSONAL PROTECTIVE MEANS

Protective biological and chemical suit EOBO-20	Protective biological and chemical suit EBO-10	Protective biological and chemical suit EBO-10/M
Chemical and biological overall	*Chemical and biological overall*	*Chemical and biological overall*
FVU Proflow 2SC	*Two-piece underwear*	*Two-piece underwear*
Combined filter, 2 pcs	*FVU Proflow 2SC*	*FVU Proflow 2SC*
Protective gloves LATEX, 2 pairs	*Combined filter, 2 pcs*	*Combined filter, 2 pcs*
Protective nitrile gloves,1 pair	*Protective nitrile and rubber gloves*	*Protective nitrile and rubber gloves*
Chemical protective boots	*Chemical protective boots*	*Chemical protective boots*
Bag for bio-waste, 2 pcs	*Pack for set*	*Pack for set*
Tightening tape, 3 pcs		
Pack for set		

FVU under suit

ACCESSORIES

ADVANTAGES + PROPERTIES OF SET

1. resistance against biological, chemical and radioactive substances (ČSN EN 14605, ČSN EN 14126, ČSN EN 1073-2)
2. each of part of set meets the required regulations
3. sets of protective equipment are ready for immediate use

OPTIONAL ACCESSORIES - SHOECOVERS

INDIVIDUAL PROTECTION

PROTECTIVE CHEMICAL AND BIOLOGICAL SUIT EOBO-20/P

This model provides optimal protection against radioactively charged fibres, particles and dusts and against liquid organic and highly concentrated inorganic chemicals (including under pressure) and biological hazardous substances. It is classified in category III, Type 3B and meets the following standards: EN 1149-1, EN 14126, EN 1073-2.

- the coverall has thumb loops, which prevent the sleewes riding up the arm during overhead work
- the double storm flap of the front opening is sealed with a hook and loop closure
- the visor provides perfect allround view
- the user's protection is secured by inner positive pressure
- the filtration-ventilation unit supplies sufficient amount of filtered air (160 dm^3/min)
- the model has small visor on the back for checking of FVU level (level of filters and battery)
- the accumulator guarantees at least 4 hours of operating time
- a quality of filtered air is ensured by appropriate combined filters placed outside the suit

INDIVIDUAL PROTECTION

PROTECTIVE BIOLOGICAL AND CHEMICAL SUIT EBO-10

The protective biological and chemical suit EBO-10 with filtered air inlet enables the user to enter environments with a risk of presence of dangerous biological, chemical or deleterious substances. The inner space is secured by air positive pressure supplied by filtration-ventilation unit that is hung on a belt inside the protective suit.

- user's protection is secured by inner positive pressure
- filtration-ventilation unit supplies sufficient amount of filtered air (120 dm^3/min)
- accumulator guarantees at least 8 hours of operating time
- quality of filtered air is ensured by appropriate filters, placed outside the suit
- optimal volume of inner positive pressure is ensured by one-way overpressure valves
- large view-through
- special hermetic zip fastener
- all seams are super-sealed by elastomeric mixture
- fabric: butyl rubber

Technical parameters

- weight of the suit approx. 3000 g for size No.1 (without: filtration-ventilation unit, underwear, boots and gloves)
- weight of boots: 2200 g for size No.45
- weight of filtration-ventilation unit: 1650 g (incl. 2 pcs of P3 filter and air hose)

Materials

- overall: fabric, two-side-coated with butyl rubber
- view-through: polymethyl-methacrylate (PMMA)
- boots: mixture of polyvinyl chloride (PVC) and nitrile rubber with the slip-resistant profile
- rubber gloves in green: nitrile rubber
- rubber gloves in black: butyl rubber
- seams: sewn, rubber-mixture covered (insulation) at the outer surface

INDIVIDUAL PROTECTION

PROTECTIVE BIOLOGICAL AND CHEMICAL SUIT EBO-10/M

The protective biological and chemical suit EBO-10/M is the product of continuous development in the area of protective means of individuals. It differs from the previous type (EBO-10) in its volume air flow which has been increased up to 160 dm^3/min and an innovative cephalic cross construction. The material is on the same base, just the butyl rubber coating is thicker, in order to ensure better resistance to chemicals.

- user's protection is secured by inner positive pressure
- filtration-ventilation unit supplies sufficient amount of filtered air (160dm^3/min)
- accumulator guarantees at least 8 hours of operating time
- quality of filtered air is ensured by appropriate filters, placed outside the suit
- optimal volume of inner positive pressure is ensured by one-way overpressure valves
- large view-through
- special hermetic zip fastener
- all seams are super-sealed by elastomeric mixture
- fabric: butyl rubber
- inovated cephalic cross

Technical parameters

- weight of the suit approx. 5500 g for size No.2 (incl. filtration-ventilation unit; without underwear, boots and gloves)
- weight of boots: 2700 g for size No.45

Materials

- overall: fabric, two-side-coated with butyl rubber
- view-through: polymethyl-methacrylate (PMMA)
- boots: mixture of polyvinylchloride (PVC) and nitrile rubber with the slip-resistant profile, reinforced boot-tip and insole
- rubber gloves in green: nitrile rubber
- rubber gloves in black: butyl rubber
- seams: sewn, rubber-mixture covered (insulation) at the outer surface

Cephalic cross

The protective biological and chemical suit provides the highest level of protection within ventilated suit category 1c-B.

The product is certified by accredited testing centre the Occupational Safety Research Institute Prague in compliance with ČSN EN 14126:2004 and ČSN EN 943-1:2003.

SAFE TRANSPORT OF PATIENT

SYSTEM OF BIOLOGICAL PROTECTION

SYSTEM OF BIOLOGICAL PROTECTION

SPECIAL ISOLATION TRANSPORT BAG FOR INFECTED PATIENT

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_2 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 5 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-4
- BIO-BAG EBV-30/40 doesn´t need any additional stretchers for transport of the patient, it is ensured by the supporting structure from folding aluminum tubes that is integral part of it

Filter ventilation unit

Possitive pressure

Negative pressure

SPECIAL ISOLATION TRANSPORT BAG FOR INFECTED PATIENT

IMPLEMENTED INNOVATIONS

Bio-Bag is equiped 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.

SPECIAL INNER SAFETY POCKET WITH DOUBLE HERMETIC ZIPPER FOR EQUIPMENT NEEDED FOR A PATIENT

SYSTEM OF BIOLOGICAL PROTECTION

TEMPORARY HOSPITALIZATION OF INFECTED PATIENT

TEMPORARY ISOLATION CHAMBER - INSULATOR EI-10

The insulator i.e. „waiting room“ provides a possibility of necessary isolation of patient with occurrence of highly dangerous disease. It is designed for immediate use and is produced from transparent foil to enable checking/monitoring of a patient within time of isolation.

- Insulator dimension is 2 x 2 x 2,2 m and the construction enables easy manipulation with patient in order to place him into special transport bag EBV-30/40
- it is designed from inflatable tubular construction with negative pressure system and with usage of 2 pcs of filter-ventilation unit
- 2 pcs of filter-ventilation unit provides an air exchange once in a 30 minutes
- insulator is inflated by compressor
- time to put into operation is ca 3 min
- It is possible to place a hospital bed inside insulator

Filter-ventilation unit

Pocket for putting things (water, food etc.)

The summary of activities related to insulator

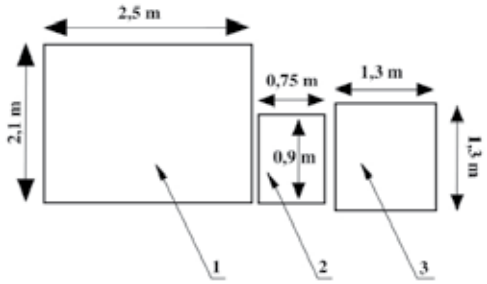
When is the occurrence of highly dangerous disease, the patient is placed in the isolation chamber. In case of confirmed highly dangerous disease, medical staff dressed in protective gear place a patient into BIO-BAG. While leaving an insulator – it has to be done decontamination process by proper decontamination equipment placed in front of a chamber (due to this system it is not needed any other manipulation with patient).

ISOLATION NEGATIVE PRESSURE CHAMBER BIOBOX EBXT-06 - INFLATABLE CONSTRUCTION

The isolation negative pressure chamber Biobox EBXT-06 with inflatable tubular construction designed for isolation and hospitalization of individuals with highly dangerous infection. The protective Biobox function is based on negative pressure creation inside the isolation chamber, thereby protecting the surroundings from highly dangerous infection transmission.

- quickly erected and serviceable within 15 minutes by two persons
- balanced air distribution inside the chamber through double roof
- filtration-ventilation unit ensures complete air exchange in the isolation chamber every 2 minutes
- expelled air goes through HEPA-filter with built-in source of UV radiation which destroys captured organism
- filtration efficiency is 99,9995%
- through the use of entrance port it is possible to connect medical devices outwardly and thereby protect them from contamination, ports are also used for connection of infusions, respiratory device, etc.
- facility for staff and equipment decontamination after exiting the chamber in attached decontamination module

The plan lay-out of complex – internal dimensions



1. Biobox
2. airlock of Biobox
3. decontamination module

Equipment for Isolation under pressure chamber Biobox EBXT-06

Decontbox, water distribution, barrels

Filtration - ventilation unit

Inflation blower

The isolation negative pressure chamber offers an immediate and highly effective isolation of contagious individuals, decontamination and follow on safe contact of medical staff with patient. It offers BSL-3 standard of protection.
The product is certified by accredited testing centre TÜV CZ and it is classified in the category of class 1 medical supplies. This product was also clinically tested in the Teaching Hospital Na Bulovce in Prague, CZ.

SYSTEM OF BIOLOGICAL PROTECTION

ISOLATION AND HOSPITALIZATION OF INFECTED PATIENT

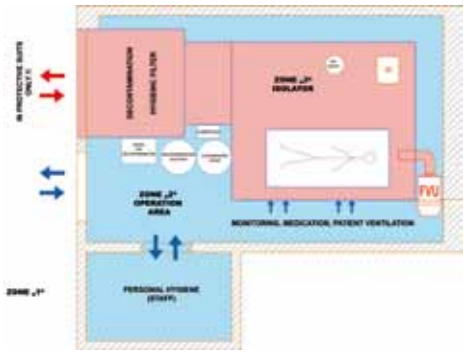
BIOBOX EBX-06 - ALUMINUM CONSTRUCTION

The EBX-06 Biobox of tube construction is an isolation device for isolation and hospitalization of individuals with highly dangerous infection, designed primarily for permanent health establishments. Long serviceability of the Biobox due to its service-free construction.

- Biobox has tubing construction
- balanced air distribution inside the chamber through double roof
- filtration-ventilation unit ensures complete air exchange in the isolation chamber every 2 minutes
- expelled air goes through HEPA-filter with built-in source of UV radiation which destroys captured organism
- filtration efficiency is 99,9995%
- through the use of entrance port it is possible to connect medical devices outwardly and thereby protect them from contamination, ports are also used for connection of infusions, respiratory masks, etc.
- facility for staff and equipment decontamination after exiting the chamber in attached decontamination module

INDIVIDUAL APPLICATION OF THE SYSTEM

It is possible to create an isolated part of any infected ward and preserve all the conditions needed for patient treatment due to the construction system.



Equipment for Isolation under pressure chamber Biobox EBX-06

Decontbox, water distribution, barrels

Filtration - ventilation unit

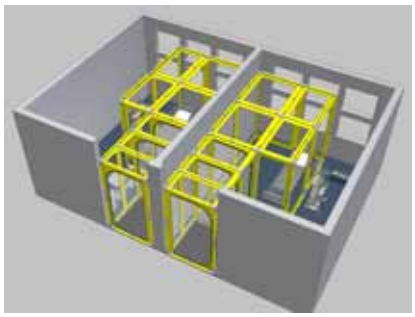
Isolation chamber proved immediate and highly efficient isolation of infected patient and safe contact of medical staff with this patient. It offers BSL-3/4 standard of protection.

Product is certified by accredited testing centre TÜV CZ and it is classified in the category of class 1 medical supplies. This product was also clinically tested in the Teaching Hospital Na Bulovce in Prague.

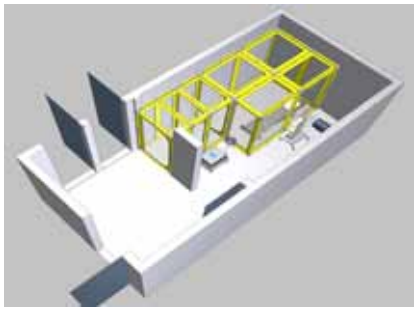
ISOLATION AND HOSPITALIZATION

IMPLEMENTED PROJECTS

HOSPITAL IN BULOVKA (PRAGUE, CZ)



HOSPITAL IN HAVIROV (OSTRAVA, CZ)

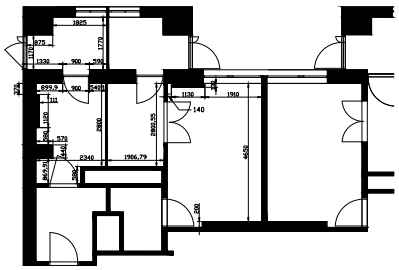


HOSPITAL IN KOSICE (SK)



HOSPITAL IN MOSCOW (RU)





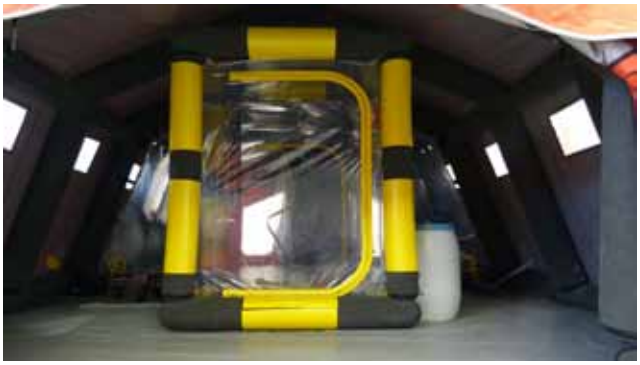
SYSTEM OF BIOLOGICAL PROTECTION

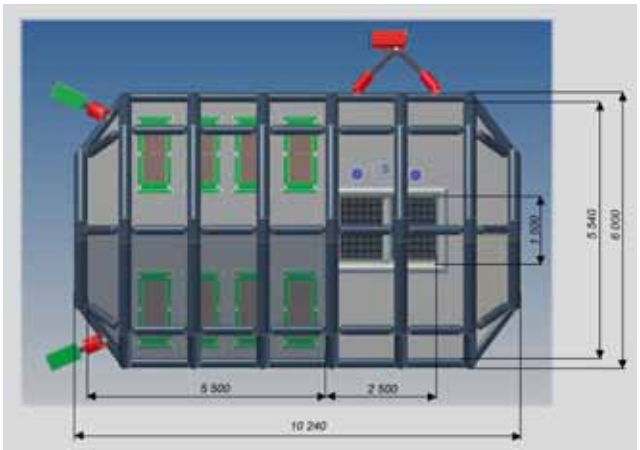
LONG-TERM HOSPITALIZATION AND PATIENT ISOLATION AND TREATMENT

ISOLATION NEGATIVE PRESSURE TENT ES-56 LP EBXT

The isolation negative pressure tent ES-56 LP EBXT serves to isolate and treat more people with highly dangerous infections. Its purpose is to provide a safe quarantine space based on the negative pressure, protecting the environment from infected patients by placing them into the isolation tent.

- rapid erection and serviceability thank to inflatable tubular construction
- capacity of up to 8 hospitalized persons
- optimal negative pressure inside the tent
- sucked out contaminated air goes through HEPA-filter with built-in source of UV radiation that destroys captured organisms
- filtration efficiency is 99,9995%
- special inner built-in liner with transition chamber
- separate inner storage spaces
- facility of staff and equipment decontamination after exiting the chamber in attached decontamination module
- technical entry for inner equipment installation
- possibility of safe attachment in case of use in hazardous weather conditions





RECOMENDED EQUIPMENT

Filter-ventilation unit

Decontbox

Compressor

Technical data

tent inflated

- operating pressure in tube construction 23 – 29 kPa
- inflation time 6 minutes

The isolation negative pressure tent provides immediate and highly efficient isolation of infected persons in field conditions.

PATHOLOGICAL BAG

PATHOLOGICAL BAG EPBV-10

The pathological bag EPBV-10 is used for transportation of dead person suspected of highly contagious disease. It is biological germ proof.

- it is of a double skin construction
- inner skin is properly welded to the outside skin and inner skin can be closed by spiral zipper with special covers containing self-adhesive tapes which ensure that the bag is air-tight
- the bag is made of a waterproof thermally welded polyethylene foil
- equipped with four handles for easy carrying
- the bag is the disposable product
- two pairs of gloves are included
- the bag can be designed with transparent window for easy victim identification

Technical parameters:

- **dimension (cm): 220 x 90**
- **weight (g): ca 1 200**
- **thickness (mm): 0,15-0,16**

SYSTEM OF BIOLOGICAL PROTECTION

REFERENCES

- The Ministry of Health of Slovakia, 1pc of Biobox EBXT-06 and 1pc of Bio-Bag EBV-30 in order to use them for safety of prezident USA George Bush and prezident of Russia Vladimir Putin on Ameri-can-Russian sum-mit in Bratislava held on February 24th, 2005
- The Ministry of Health of Czech Republic – the Health Service of Crisis Situations city Příbram, complete set of Biobox EBXT, Bio-Bags EBV-30 including accessories
- The Ministry of Defence of Czech Republic, 8 pcs of Bio-Bag EBV-30
- The Force Army Angola – Chemical and Biological Corp, complete set of Biobox EBXT, 3 pcs of Biological protective suit EBO-10, 1 pc of Bio-Bag EBV-30 including accessories
- The Agencja rezerw materialowych of Poland, 38 pcs complete set of Biobox EBXT, 530 pcs of Biological protective suit EBO-10
- The Military institution of hygiene and epidemiology of Slovakia, 6 pcs of Biological protective suit EBO-10
- The Teaching Hospital in Motol, Prague, Czech Republic – Infection department, 2 pcs of Bio-Bag EBV-30
- The Vet Military institution Hlučín, Czech Republic, 1 pc of Bio-Bag EBV-30
- The Regional Authority Ústecký kraj, Czech Republic, 2 pcs of Bio-Bag EBV-30
- The Teaching Hospital in Brno, Czech Republic – Infection department, 1pc complete set of Biobox EBXT and accessories
- The Administration of material reserves of Czech Republic – 10 pcs of Bio-Bag EBV-30
- The Biohazard ambulance car, Czech Republic, 1 pc of Bio-Bag EBV-30
- The Ministry of Health of Slovakia - the Health Service of Crisis Situations, 1 pc of Bio-Bag EBV-30
- The Teaching Hospital in Olomouc, Czech Republic – Infection department, 1pc complete set of Biobox EBXT and accessories
- The Teaching Hospital „ Na Bulovce“, Prague, Czech Republic - 2 pcs of Biobox EBX (modular system)
- The Hospital Havirov CZ - 1 pc of Biobox EBX
- The Hospital 165 Moscow Russia - 1 pc of Biobox EBX, 4 pcs of Bio-Bag EBV - 30/40, 10 pcs of protective suit EBO - 10
- The Hospital Orel, Russia - 1 pc of Biobox EBX
- The Ambulance service INEM Portugal - 8 pcs of Bio-Bag EBV - 30/40
- The Ambulance service HITT Austria - 3 pcs of Bio-Bag EBV - 30/40
- The Doctors without borders, Brussels - 9 pcs of Bio-Bag EBV - 30/40 (for Ebola outbreak situation in West Africa)
- The Hospital Kosice, SK - 2 pcs of Biobox EBX
- The Hospital Banska Bystrica, SK - 1 pc of Biobox EBX

REFERENCES

- The Ministry of Interior of the Czech Republic 1 500 pcs of pathological bag EPBV-10 intended for Humanitarian Aid, Ebola outbreak in West Africa
- The Public Health Agency, Canada - 17 pcs of Bio-Bag EBV - 30/40
- The Ministry of Health, BR – Crisis management unit GRAU - 3 pcs of Bio-Bag EBV - 30/40
- The Ministry of Health of the Czech Republic- 112 pcs of biological a chemical set EOBO-20/P, 2 pcs of EBV-30/40
- The Ministry of Health of the Slovak Republic – 90 pcs of biological a chemical set EOBO-20/P
- The company Arbor Ltd, Lithuania -10 pcs of biological a chemical set EOBO-20/P
- The Ministry of Health of Romania - 40 pcs of Bio-bag EBV-30/40
- The Ministry of Health of Belarus – 35 pcs of biological and chemical set EBO-10, 12 pcs of EBV-30/40
- The company WestMedGroup, Russia -10 pcs of biological a chemical suit EBO-10 and 5 pc of Bio-bag EBV-30/40
- The company Tetis, Russia - 40 pcs of EBV-30/40
- The Ministry of Defence of Greece - 1 pcs of EBV-30/40
- The Ministry of Health of Poland - 20 pcs of EBV-30/40
- The Ministry of Health of Germany - 4 pcs of EBV-30/40
- The Ministry of Health of KSA - 4 pcs of EBV-30/40
- The Ministry of Health of Croatia - 2 pcs of EBV-30/40
- The Ministry of Health of Luxemburg - 2 pcs of EBV-30/40
- The Ministry of Health of Belgium - 2 pcs of EBV-30/40
- The Ministry of Health of Brasil - 5 pcs of EBV-30/40
- The Ministry of Health of Japan - 12 pcs of EBV-30/40
- The Ministry of Health of Finland - 11 pcs of EBV-30/40

- The Ministry of Defence of Romania- 2 pcs of complete set of special version of Biobox with accessories
- Global Helicopter Service, Germany – 12 pcs of Bio-Bag EBV-30/40 intended for Ebola outbreak in West Africa
- International Medical Corp., Liberia - 4 pcs of BIO-BAG EBV-30/40
- The Teaching Hospital „ Na Bulovce“, Prague, Czech Republic - special Biobox EBX for 2 beds
- The regional hospital in Rostov, Russia- 4 pcs od Biobox EBXT-06
- The Ministry of Health, center of disaster medicine, Russia - tent ES-56 LP EBXT with accessories
- The Ministry of Health, center of disaster medicine, Russia – Biobox EBXT-06
- The Hospital Polský Těšín, Poland- Biobox EBXT-06.
- The Ministry of Health, Moldova – 4 pcs of BIO-BAG EBXT-06
- The Ministry of Defence, Spain – 4 pcs of Biobox EBX-06
- Emergency Services, South Korea – 40 pcs of BIO-BAG EBV-30/40, 180 pcs of BIO-BAG EBV-30/40 + 3600 pcs filters
- The Ministry of Health, USA – 180 pcs of BIO-BAG EBV-30/40
- JSC UKRAINIAN HELICOPTERS, Ukraine - 2 pcs of Insulator with accessories
- JSC UKRAINIAN HELICOPTERS, Ukraine - 4 pcs of Bio-Bag EBV-30/40
- The regional Hospital in Moscow, Russia – 1 pc of Biobox EBX-06 atypical

CATALOG EGO

DECONTAMINATION SYSTEM

Basic decontamination
Decontamination showers
Decontamination tent for civil usage
Mass personnel decontamination for military usage
References

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DECONTAMINATION SYSTEM

A number of human activities in the civil sector and in military sector can be accompanied by contamination of personal safety means, clothes even human bodies by chemicals, as well as by dangerous biological agents or other deletarious substances. It is necessary to ensure immediate and thorough decontamination and cleaning at contaminated areas in order to prevent possible spread of contamination. To eliminate their effects and to eliminate the unwanted substances we use equipment for individual and mass decontamination. It means few types of decontamination showers, tents or other means each of them having specific use.

The greatest advantage most of the offered products is their structural design in the form of inflatable tube construction that enables their fast erection (within minutes) with minimum of people needed and fast serviceability. Decontamination is always carried out with system of nozzles, their positioning, number, flow volume and angle of spreading is optimized in order to achieve the lowest production of contaminated waste in balance with maximum efficiency of the whole procedure. Waste is continuously sucked out through specially constructed absorbent bin that keeps the level of sewage water under 2 mm limit and in connection with outside placed pump completely eliminates the danger of electric shock.

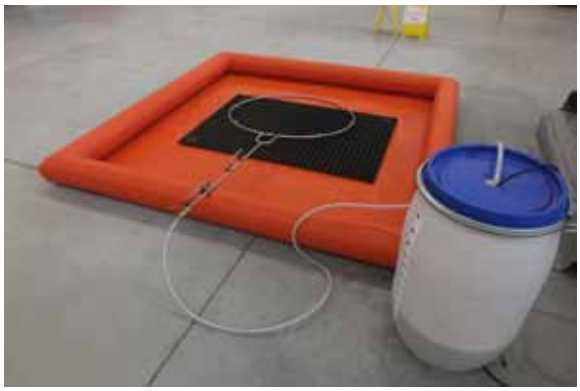
ADVANTAGES

- rapid assembly (from transportation to serviceable stage)
- high mobility
- sufficient amount of decontamination nozzles and rinsing shower heads
- self-supporting inflatable tube construction, no other supporting components are needed (e.g. struts, etc)
- safety valves, ensuring the tube construction is not overinflated
- wide range of different sizes
- can be transported by usual transport means

TECHNICAL DATA

- tube construction pressure: 0,29 bar
- single nozzle flow capacity: 1 l/min
- rinsing head shower flow capacity: 7 l/min
- system of inflatable catch tank for contaminated waste
- entrance and exit indication

DECONTAMINATION SYSTEM



BASIC DECONTAMINATION

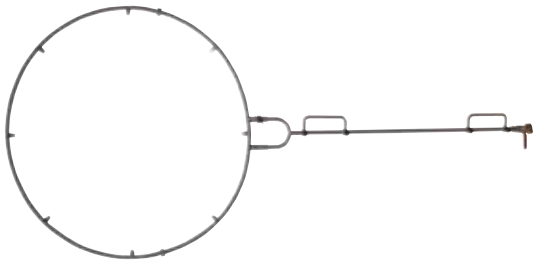
The basic decontamination system consisting of the EDEK-10 decontamination circle and the EDKB decontamination pool is designed for basic and immediate decontamination in field conditions. It is possible to use it for decontamination of persons in protective clothes or decontamination of surface body.

DECONTAMINATION CIRCLE EDEK-10

It is light, mobile and easy operatable decontamination mean for usage in field conditions. Internal perimeter of circle is equipped with nozzles for spreading of decontamination liquid, a holder supplies a liquid into nozzles through spherical valve and enables manipulation with circle. For easy transport and adjustment is circle foldable.

BASIC CHARACTERISTICS

- material circle and nozzles: stainless steel
- number of nozzles: 8
- pressure: 2 – 6 bar
- flow capacity: 2,7 l/min (each nozzle)
- diameter: 100 cm
- weight: 3,6 kg
- serviceability time: 2 minutes



DECONTAMINATION POOL EDKB

Decontamination pool enables capturing and following sucking out of waste water during decontamination and cleaning, thereby it prevents from escape of dangerous substance in environment. The pool has tube inflatable construction and floor made from resistance both sided coated textile. The inflatable construction is equipped with inflation/deflation valve and is possible to inflate by electric compressor or manual pump. On the floor of pool is placed valve for water drainage and can be sucked out also by water pump.

BASIC CHARACTERISTICS:

- tube construction with fixed floor
- 1 inflation/discharge valve
- 1 pressure safety valve
- 1 liquid outlet valve

DECONTAMINATION SYSTEM

DECONTBOX PUMP

The device is designed for ensuring liquid flow (decontamination liquid or water) into decontamination circle nozzles and for decontaminated water suction. The pumping equipment consists of two pumps, a compression tank and a switchboard with a 230/24V power supply.

- diaphragm pump for distribution of decontamination liquid into nozzles
- diaphragm pump for contaminated water suction
- pump inlets are protected by filters
- GEKA couplings are used to connect the hoses
- dimensions: 570 x 405 x 610 mm (l x w x h)
- 2 barrels with capacity of 120 l (for decontamination liquid and waste)
- weight: 29 kg

COMPRESSOR ESK-100

The device is designed for an immediate inflation of the pool tubular construction. According to air pipes the compressor can fill the construction with the air or discharge it when disassembling the construction in order to have it perfectly folded and packed.

- For rapid inflation and deflation
- Easy to transport
- Power supply: 230V~50Hz -120V~60Hz
- Weight: 4,1 kg
- Dimensions: 320 x 170 x 260 mm

Main motor: 230V 1800 l/min 260mbar/3,8psi 1000W
Booster: 230V 2500l/min 500mbar/7,4psi 2000W

RUBBER MAT

It covers the decontamination shower and pool floors, prevents from slipping and falling and stops waste water from reverse contamination. They can be delivered in various sizes.

- colour: black
- weight: depending on the mat type

DECONTAMINATION SHOWERS

Decontamination showers EDK are designed for usage in field conditions, when preliminary cleaning and staff decontamination in protective equipment must be ensured including auxiliary material. Rapid set-up and activation of equipment needed is ensured to provide a good functioning of the system. The whole system of inflatable showers is of a quality inflation tubular construction, consisting of floor and a shower cabin; the floor is used as a catch tank for waste water.

A single-chamber tube construction is equipped with an inflation/discharge valve and a safety valve which protects the tubes from over inflation. The compressor or pressurized air bottles are used to inflate the construction.

BASIC CHARACTERISTICS

- inflatable showers are designed for 1 person
- 1 inflation/discharge valve
- 1 pressure safety valve
- 5 nozzle spray system and 1 hand nozzle for inaccessible areas
- an anchoring system through the ropes or floor boards
- flow capacity: 0,8 – 1,1 l/min due to the pressure (each nozzle)
- spray system is connected through the Si roflex coupling fast joint (C type joint can be delivered if needed)
- the GEKA coupling is used to connect the system to waste water cycle

DECONTAMINATION SHOWER EDK-04/A

The shower is designed for individual decontamination of people whether in protective suits, or directly to the decontamination or hygienic cleansing of the body. Shower consists of inflatable construction, cabin from transparent foil and water supplying system with nozzles, hand nozzle and hand brush.

- **Decontamination shower (packed)**
  1100 x 800 x 350 mm (LxWxH)
- **Decontamination shower (inflated)**
  2000 x 2000 x 2450 mm (LxWxH)

- Weight 40kg

Time of inflating

- compressor 40 sec

DECONTAMINATION SYSTEM

DECONTAMINATION SHOWERS

DECONTAMINATION SHOWER FOR IMMOBILE PATIENT EDK-08A

The decontamination shower is designed for rough decontamination or hygienic purification of immobile/ injured person placed on mobile stretcher. The dimensions and design of shower are modified for this purpose when stretcher with person is possible to place inside with enough place for operating staff. The shower contains of tubular construction, cabin from transparent foil and water supplying system with nozzles, hand nozzle and hand brush.

- **Decontamination shower (packed)**
  1100 x 800 x 450 mm (LxWxH)
- **Decontamination shower (inflated)**
  3000 x 2000 x 2450 mm (LxWxH)
- Weight 50 kg
  Time of inflating
- compressor 60 sec

DECONTBOX PUMP

The device is designed for ensuring liquid flow (decontamination liquid or water) into decontamination circle nozzles and for decontaminated water suction. The pumping equipment consists of two pumps, a compression tank and a switchboard with a 230/24V power supply.

- diaphragm pump for distribution of decontamination liquid into nozzles
- diaphragm pump for contaminated water suction
- pump inlets are protected by filters
- GEKA couplings are used to connect the hoses
- dimensions: 570 x 405 x 610 mm (l x w x h)
- 2 barrels with capacity of 120 l (for decontamination liquid and waste)
- weight: 29 kg

COMPRESSOR ESK-100

The device is designed for an immediate inflation of the pool tubular construction. According to air pipes the compressor can fill the construction with the air or discharge it when disassembling the construction in order to have it perfectly folded and packed.

- For rapid inflation and deflation
- Easy to transport
- Power supply: 230V~50Hz -120V~60Hz
- Weight: 4,1 kg
- Dimensions: 320 x 170 x 260 mm

Main motor: 230V 1800 l/min 260mbar/3,8psi 1000W
Booster: 230V 2500l/min 500mbar/7,4psi 2000W

RUBBER MAT

It covers the decontamination shower and pool floors, prevents from slipping and falling and stops waste water from reverse contamination. They can be delivered in various sizes.

- colour: black
- weight: depending on the mat type

DECONTAMINATION TENT FOR CIVIL USAGE

The ES-56LDK decontamination tent offers decontamination and hygiene cleaning of persons in field conditions who have been in contact with dangerous chemicals, biological and other dangerous substances. This system is mainly used in civil sector where all the actions are carried out only in one tent.

BASIC CHARACTERISTICS

- transit capacity 40 persons per hour
- double chamber tube system
- 2 inflation/discharge valves
- 2 safety pressures valves
- anchoring system through ropes and floor boards
- warm water supplied by diesel heater
- contaminated water suction by elestric pump
- decontamination solution is applied by 5 nozzles and1 hand nozzle for inaccessible areas, 2 shower heads and a hand shower for rinsing in each corridor
- flow capacity: 0,8 – 1,1 l/min depending on the pressure (each nozzle)

DECONTAMINATION TENT FOR CIVIL USAGE ES-56 LDK

The tent is of inflatable tube construction which enables a rapid assembly through a compressor or pressurized air bottles. The tent interior is divided into 2 identical corridors (for men and women). Each corridor is divided into 3 sections – undressing section, decontamination and cleaning section and dressing section. There is a catch tank for contaminated solutions in the decontamination and rinsing parts.

TECHNICAL DATA

Dimensions:

- outside: 10 000 x 6 000 x 3 000 mm (l x w x h)
- inside: 10 000 x 5 540 x 2 700 mm (l x w x h)
- folded and packed: 1 500 x 1 000 x 850 mm (l x w x h)

Effective workspace: 50 m^2
Undressing area: 15 m^2
Decontamination and cleaning area: 20 m^2
Dressing area: 15 m^2
Weight: 230 kg
Inflation time: 6 minutes (including the inside tank inflation)

DECONTAMINATION SYSTEM

DECONTAMINATION SYSTEM

DECONTAMINATION TENT FOR CIVIL USAGE

TRANSPORTABLE DIESEL WATER HEATER EMOV-1

The diesel heating system is designed for water heating and keeping the temperature as set by thermostat. There is a 20 l barrel hanging on the device frame which ensures the fuel supply to the system. GEKA couplings are used to connect the pipes.

- diesel consumption: 7 l/h
- current connection: 230 V/50 Hz
- water capacity: 180 - 2400 l/h
- water temperature: 40 °C
- max. operating pressure: 8 bar
- dimensions (l x w x h): 1 100 x 750 x 830 mm
- weight: 120 kg

SUBMERSIBLE PUMP

The device is designed for liquid distribution (decontamination liquid or water) into decontamination shower nozzles and rinsing showers (through the heater).

- GEKA couplings are used to connect the hoses
- power: 0,75 kW
- current connection: 230 V/50 Hz
- Qmax: 96 l/min.
- weight: 10 kg

SELF-SUCKING ELECTRIC PUMP

The device is designed for contaminated water suction from the catch tank.

- GEKA couplings are used to connect the hoses
- power: 0,75 kW
- current connection: 230 V/50 Hz
- Qmax: 83 l/min.
- weight: 10,6 kg

COMPRESSOR ESK-200

The device is designed for an immediate inflation of the tent tubular construction and catch tank. According to air pipes the compressor can fill the construction with the air or discharge it when disassembling the construction in order to have it perfectly folded and packed.

- wattage: 2 x 0,96 kW
- current connection: 230 V/50 Hz
- air flow: 46 l/s
- weight: 16 kg
- dimensions (l x w x h): 400 x 335 x 390 mm
- max. overpressure: 45 kPa

SELF-SUCKING ELECTRIC PUMP

It covers the decontamination shower and pool floors, prevents from slipping and falling and stops waste water from reverse contamination. They can be delivered in various sizes.

- colour: black
- weight: depending on the mat type

MASS PERSONNEL DECONTAMINATION AREA FOR MILITARY USAGE

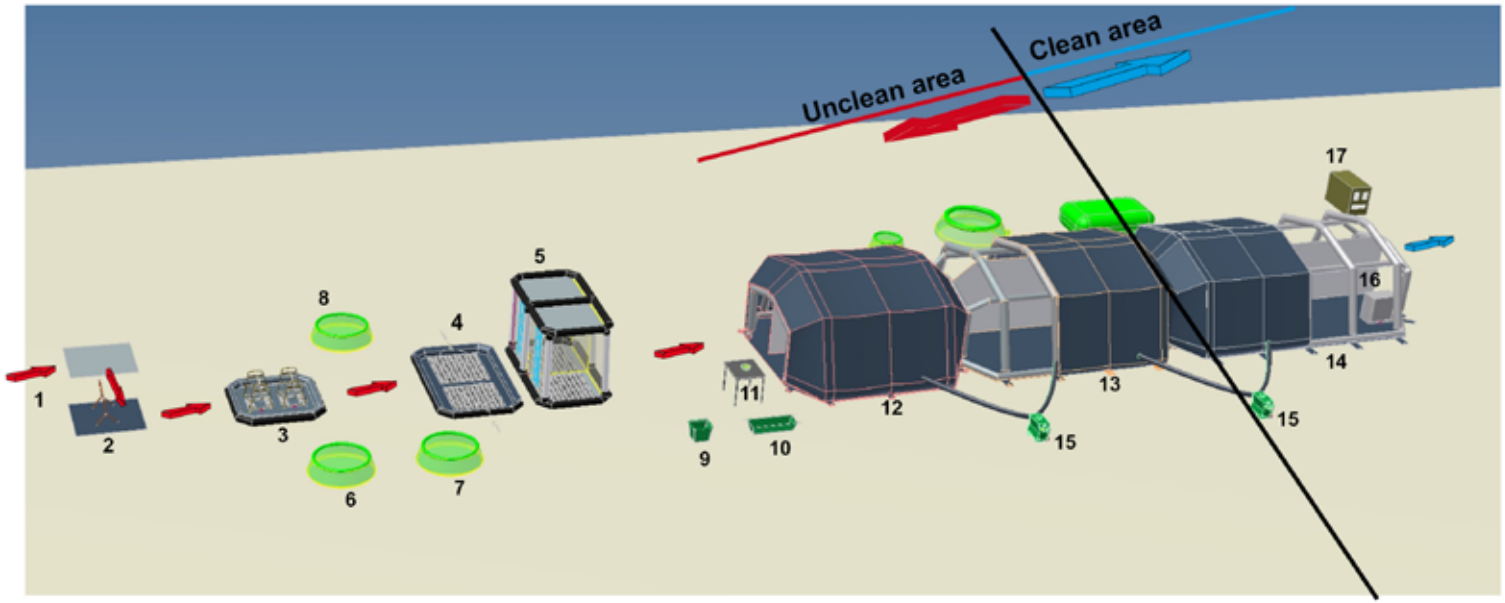
There are real threats of industrial disasters, epidemics, natural disasters, fires, terrorist attacks and war conflicts to be considered very carefully in the 21st century and therefore it is necessary to be well prepared for such situations. Military and rescue services involved must be equipped accordingly for the sake of their safety.
These are at personnel decontamination area and organized a way which enables to carry out weapons, individual protection means, personnel decontamination and equipts personnel with clean material required.

BASIC CHARACTERISTICS

- transit capacity 120 persons per hour
- minimum dimensions of the area 50 x 50 m
- roll out time 45 minutes
- roll up time 60 minutes
- rinsing water temperature for decontamination 30 – 32° C
- rinsing water temperature for hygiene cleaning 38° C
- divided into 2 identical corridors (men and women)
- 16 decontamination nozzles + 1 hand nozzle for inaccessible areas in each corridor
- 6 rinsing shower heads and 1 hand shower head for inaccessible areas in each corridor
- stored and transported in ISO 1C container

DECONTAMINATION SYSTEM

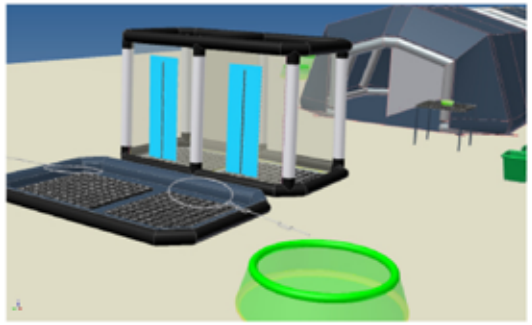
MASS PERSONNEL DECONTAMINATION AREA FOR MILITARY USAGE



The scheme of deployed mass personnel decontamination side (PDS) for military usage

1 place for weapons shooting
2 stand with numbers
3 place for weapons decontamination
4 place for PIO decontamination (means for individual protection)
5 shower for PIO rinsing
6 tank of 2000 l with decontamination liquids
7 tank of 2000 l with clean water
8 tank of 2000 l for waste water
9 bag for PIO
10 stretcher for PIO
11 place for protective masks decontamination
12 undressing tent
13 decontamination tent
14 tent for dressing
15 heating of the tents
16 air conditioning of the tents
17 generator

Detail:



REFERENCES

USAGE

- military forces of radiation, chemical and biological defense
- fire brigades
- veterinary services
- hygiene services
- industry
- country and municipal crisis management
- health service of crisis situations
- state material reserves
- dumps

The Decontamination systems of EGO Zlín, Ltd have been used for a long time not only in the Czech Republic but also in other countries worldwide.

The Military Forces of Radiation, Chemical and Biological defence, Czech Republic

The Military Forces of Radiation, Chemical and Biological defence, Slovak Republic

The Fire Brigades, state Sao Paulo, Brazil

The Health Service of Crisis Situations, Příbram, Czech Republic

CATALOG EGO

TENT SYSTEM

Tent system ES for long term usage
Tent system ES for emergency usage
Tent system EP, EG, EZ
Tent system - Equipment
References

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TENT SYSTEM

The tent systems are generally used as mobile workplaces and logistic complexes in field conditions when dealing with unexpected situations, such as environmental or industry disasters, major traffic accidents, humanitarian or military long-term missions, refugee camps and others. The main problem in all these situa-tions is that there is a huge amount of injured people and permanent facilities get filled to capacity. Patients health is endangered if sufficient treatment is not received directly at places of disasters thus their transport to a hospital might be very traumatic. Therefore it is necessary to ensure first aid directly at places of disasters and thus minimize loss of life.

The compact tent systems are the fastest and easiest solutions (short-term or long-term) in crisis situations. They are easily transportable and offer a rapid serviceability due to an inflatable tube construction. It is a double-chamber tube construction with two inflation valves and two safety valves. The construction can be inflated by a compressor or pressurized air bottles. The main advantage of the system is sufficient stability of the construction without usage of supporting metal or plastic components. Each tent entry is equipped with connecting collars with fasteners in order to ensure good connection among the tents.

ADVANTAGES

- rapid assembly
- self-supporting inflatable tube construction, no other supporting components are needed (e.g. metal or plastic struts, etc.)
- system of inflatable double-chamber construction
- safety valves ensuring the tube construction is not overinflated
- wide range of different sizes
- choice of the roof material
- can be transported by usual transport means

VARIABILITY

- sun shields
- camouflage nets
- entrance shelters
- connecting elements to containers
- durable floors etc.

TECHNICAL DATA

- pressure in tube construction: 0,29 bar
- large sleeves for air condition distribution (350 mm diameter), smaller sleeves for cables (150 mm diameter)
- three-layer windows (mosquito net, transparent foil and semi translucent layer of the same material as the roof)
- door collars with fasteners in order to connect with other tents
- simple system of door closure which also stops water from leaking into the tent

TENT SYSTEM

TENT SYSTEM ES FOR LONG TERM USAGE

These tents are suitable for long-term usage in field conditions especially due to the fact that they are of highly resistant materials which are in compliance with the NATO requirements. They can be used mainly as field hospital complexes, military headquarters or logistic field complexes. The main advantage of the system is sufficient stability of the inflatable construction without usage of supporting metal or plastic components. The tents are made on the basis of pressurized double-room tube construction. The double-room system ensures sufficient stability in case of damage occurrence, so that the tent can be repaired. The ES tents are easily portable and offer rapid, easy assembly and fast tactical serviceability. The tents have a universal width in order to create various shapes and variations of hospital or logistic complexes.

TECHNICAL DATA

- pressure in tube construction: 0,29 bar
- can be inflated by a compressor or pressurized air bottles
- large sleeves for air-condition distribution (350 mm diameter), smaller sleeves for cables (150 mm diameter)
- three-layer windows (mosquito net, transparent foil and semi translucent layer of the same material as the roof)
- door sleeves with fasteners for connection to other tents
- a simple system of door closure which also stops water from leaking into the tent
- anchoring system for stability in tough weather conditions
- colour: khaki

TENT ES-35T

Tent dimensions (l x w x h):

■ outside dimensions	6 500 x 6 000 x 3 000 mm
■ inside dimensions	6 500 x 5 400 x 2 700 mm
■ folded and packed	1 400 x 1 200 x 800 mm
Weight:	ca 160 Kg
Inflation time:	ca 3 min

TENT ES-36T

Tent dimensions (l x w x h):

■ outside dimensions	6 000 x 6 000 x 3 000 mm
■ inside dimensions	6 000 x 6 000 x 2 700 mm
■ folded and packed	1 500 x 1 500 x 800 mm
Weight:	ca 155 Kg
Inflation time:	ca 3 min

TENT SYSTEM ES FOR LONG TERM USAGE

TENT ES-48T

Tent dimensions (l x w x h):

■ outside dimensions	8 250 x 6 000 x 3 000 mm
■ inside dimensions	8 250 x 5 400 x 2 700 mm
■ folded and packed	1 500 x 1 500 x 800 mm
Weight:	ca 185 Kg
Inflation time:	ca 4 min

TENT ES-56T

Tent dimensions (l x w x h):

■ outside dimensions	10 000 x 6 000 x 3 000 mm
■ inside dimensions	10 000 x 5 400 x 2 700 mm
■ folded and packed	1 500 x 1 500 x 800 mm
Weight:	ca 220 Kg
Inflation time:	ca 4 min

UNIVERSAL EQUIPMENT TO TENTS

- sufficient amount of anchoring pegs
- hammer
- repair kit
- manual
- waterproof transportation bag

UNIVERSAL EQUIPMENT TO TENTS

- compressor
- hygienic inlays
- insulation inlays
- textile division walls
- sun shields
- camouflage nets
- entrance shelters
- connecting components to containers
- illumination
- heating aggregates
- air-conditioning
- electric generators
- mobile consolidated floors
- prints and logos on request

TENT SYSTEM ES FOR EMERGENCY USAGE

These types of tents are designed for use in crisis situations where it is necessary to provide adequate support and comfort for receiving the injured, medical treatment and hospitalization of the injured and also facilities for staff, storage facilities etc. in field conditions. The main advantage of the sufficient stability is the inflatable structure without the use of reinforcing elements of metal or plastic. Tents are made on the principle of two-chamber pressurized tubular construction. The two-chamber system ensures sufficient stability in case of damage, thereby making space for necessary repairs. Tents have a universal width in order to create any shape and variations of mobile workplace.

TECHNICAL DATA

- pressure in tubular construction: 0,20 bar
- two-chamber tubular construction, each chamber has one inflatable/drain valve and a pressure relief valve
- diameter of tube is 300 mm
- tubular construction is made of polyester fabric coated with PVC on both sides, the total weight is 650 g/m2
- heavy roof covering is made of polyester fabric coated with PVC on both sides, the total roof weight is 650 g/m2
- it is possible to choose the light roof covering which is made of polyester fabric coated with PVC or PU on one side or both sides, the total roof weight is from 300 – 400 g/m2
- the floor is made of polyester fabric coated with PVC on both sides, the total roof weight is 650 g/m2.
- the floor is watertight connected with roof covering. From the outer part are the handles attached to the floor for easy moving of the tent
- compressor or pressure bottle for tubular construction inflation
- large sleeves for air condition distribution (330 mm diameter) of ventilation equipment
- smaller sleeves for cables (100 mm diameter)
- three-layer windows (mosquito net, transparent foil and semi translucent layer of the same material as the roof)
- the entrance for the tent wide entrance, opening/closing by zippers
- simple foldable threshold, preventing the penetration of water into the tent
- anchoring system, ensuring the stability in difficult weather conditions
- colour: red, orange, khaki, blue

TENT ES-35TL

Parameters of tent (l x w x h):

- external parameters 6 500 x 6 000 x 3 000 mm
- internal parameters 6 500 x 5 400 x 2 700 mm
- In the packed position 1 300 x 1 100 x 900 mm

Weight: cca 140 Kg
Inflation time: cca 3 min

TENT ES-36TLS

Parameters of tent (l x w x h):

- external parameters 6 000 x 6 000 x 3 000 mm
- internal parameters 6 000 x 6 000 x 2 700 mm
- In the packed position 1 400 x 1 150 x 900 mm

Hmotnost: cca 130 Kg
Inflation time: cca 3 min

TENT SYSTEM ES FOR EMERGENCY USAGE

TENT ES-48TL

Parameters of tent (l x w x h):

■ external parameters	8 250 x 6 000 x 3 000 mm
■ internal parameters	8 250 x 5 400 x 2 700 mm
■ In the packed position	1 400 x 1 350 x 900 mm
Weight:	cca 160 Kg
Inflation time:	cca 4 min

TENT ES-56TL

Parameters of tent (l x w x h):

■ external parameters	10 000 x 6 000 x 3 000 mm
■ internal parameters	10 000 x 5 400 x 2 700 mm
■ In the packed position	1 400 x 1 400 x 900 mm
Weight:	cca 180 Kg
Inflation time:	cca 4 min

UNIVERSAL EQUIPMENT TO TENTS

- sufficient amount of anchoring pegs
- hammer
- repair kit
- manual
- waterproof transportation bag

UNIVERSAL EQUIPMENT TO TENTS

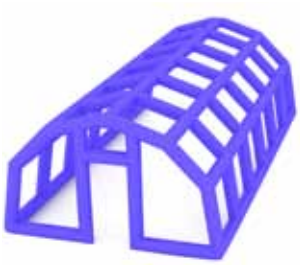
- compressor
- hygienic inlays
- insulation inlays
- textile division walls
- sun shields
- camouflage nets
- entrance shelters
- connecting components to containers
- illumination
- heating aggregates
- air-conditioning
- electric generators
- mobile consolidated floors
- prints and logos on request

TENT SYSTEM EP, EG, EZ

TENT TYPE EP

- the design of multiple pointed arches in construction increases the rigitidy and the static load
- the ability of interconnection along the entire peri meter of front wall allows the creation of seamless inner surface (in case of separable front wall – an optional variant)

- effective workspace: 35 - 80 m2
- weight:
  - light roof weight 130 - 280 kg
  - heavy roof weight 155 - 360 kg
- inflation time of the largest type: 8 minutes



SERIE **EP** / TYPE **EP**		
tent type	external parameters (l x w x h)	internal parameters (l x w x h)
EP - 36	7,5 x 4,8 x 2,8 m	7,2 x 4,2 x 2,5 m
EP - 43	9,0 x 4,8 x 2,8 m	8,7 x 4,2 x 2,5 m
EP - 60	10,0 x 6,0 x 3,2 m	9,7 x 5,4 x 2,9 m
EP - 90	15,0 x 6,0 x 3,2 m	14,7 x 5,4 x 2,9 m

TENT TYPE EG

- the ability of interconnection of tents along the entire perimeter of the front wall allows the creation of a large seamless in ner surface (in case of use of separable front wall – an optional variant) or entrance collars
- the ability of design with connectable side

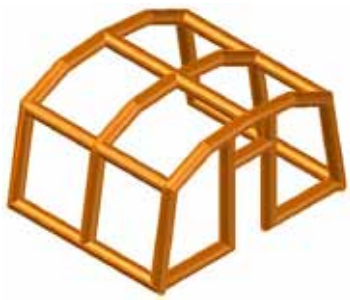
- effective workspace: 28 - 55 m2
- weight:
  - light roof weight 110 - 182 kg
  - heavy roof weight 130 - 260 kg
- inflation time of the largest type: 6 minutes

SERIE **EG** / TYPE **EG**		
tent type	external parameters (l x w x h)	internal parameters (l x w x h)
EG - 28	5,65 x 5,6 x 3,0 m	5,65 x 5,0 x 2,7 m
EG - 42	8,3 x 5,6 x 3,0 m	8,3 x 5,0 x 2,7 m
EG - 55	10,95 x 5,6 x 3,0 m	10,95 x 5,0 x 2,7 m

TENT TYPE EZ

- simple design and compact sizes in order to achieve the fastest and easiest instalation
- the ability of interconnection of tents along the entire perimeter of the front wall allows the creation of a large seamless inner surface (in case of use of separable front wall - an optional variant) or entrance collars

- effective workspace: 10 - 25 m2
- weight:
  - light roof weight 40 - 100 kg
  - heavy roof weight 60 - 150 kg
- inflation time of the largest type: 3 minutes



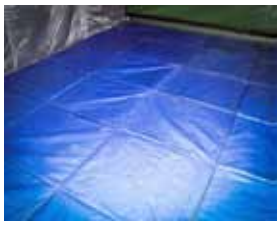
SERIE **EZ** / TYPE **EZ**		
tent type	external parameters (l x w x h)	internal parameters (l x w x h)
EZ - 10	3,7 x 3,1 x 2,35 m	3,7 x 2,7 x 2,15 m
EZ - 16	3,85 x 3,85 x 2,85 m	3,45 x 3,45 x 2,65 m
EZ - 18	4,0 x 5,0 x 2,85 m	4,0 x 4,6 x 2,65 m
EZ - 24	6,0 x 4,5 x 2,8 m	6,0 x 4,1 x 2,6 m

TENT SYSTEM - EQUIPMENT

UNIVERSAL EQUIPMENT TO TENTS

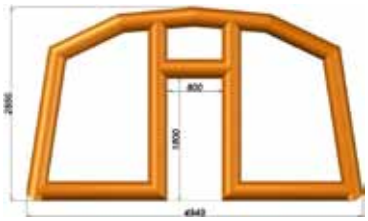
- sufficient amount of anchoring pegs
- hammer
- repair kit
- manual
- waterproof transportation bag

UNIVERSAL EQUIPMENT TO TENTS



- compressor
- hygienic inlays
- insulation inlays
- textile division walls
- sun shields
- camouflage nets
- entrance shelters
- connecting components to containers
- illumination
- heating aggregates
- air-conditioning
- electric generators
- mobile consolidated floors
- prints and logos on request

TUBULAR DOOR (FOR RANGES EP, EG, EZ)



- hermetically sealable
- high isolation
- highly resistant in all weather conditions (e.g. storm, rain, snow, frost, stron wind,…)
- simple operation and handling

TENT SYSTEM -
MULTIFUNCTIONAL INFLATABLE HALL

The hall is made on principle of inflatable tubular construction. Modular large-capacity hall is really spacious and can be adapted to various needs of customers. Such surface area is large enough to hide under the roof people, cars or trucks, technical equipment or material. You can choose red or army green colour.

Advantages

- **Easy handling and operation, simple installation (up to 60 minutes in 4 people)**
- **For short-term and long-term use**
- **Provides a sheltered area which can be heated**
- **Long lifetime period with minimum maintenance requirements**
- **Made of high-quality, flame-retardant, high strength material with a long lifetime period, abrasion- resistant, resistant to solar radiation**
- **Large continuous internal space**
- **The hall consists of three basic elements: front module, central module (option to use 1 to 3 pcs depending on the required useful area), rear module**
- **Connecting of modules by means of a sophisticated system of connectors and high strength zip fasteners**
- **Each module is in a separate bag for an easier transport and handling**
- **There are gates for vehicles to drive into the tent**
- **There is an entrance for people on the front and rear module, optional side entrances on central modules**
- **Wide practical use – garage, repair shop, material warehouse, dining hall, general headquarters, meeting room, large-capacity accommodation of persons**

The inflatable module can be operated under the following climatic conditions:

Temperature range:	**- 40 ° C + 70 ° C**
Humidity:	**up to 99% at + 50 ° C**
Max. wind speed:	**resistance to air flow speed ca100 km/h)**
Max. rain intensity:	**3 mm / min, falling at an angle of 30° in all directions**
Max. snow load:	**50 kg / m² in 24 hours**

TENT SYSTEM

TENT SYSTEM -
MULTIFUNCTIONAL INFLATABLE HALL

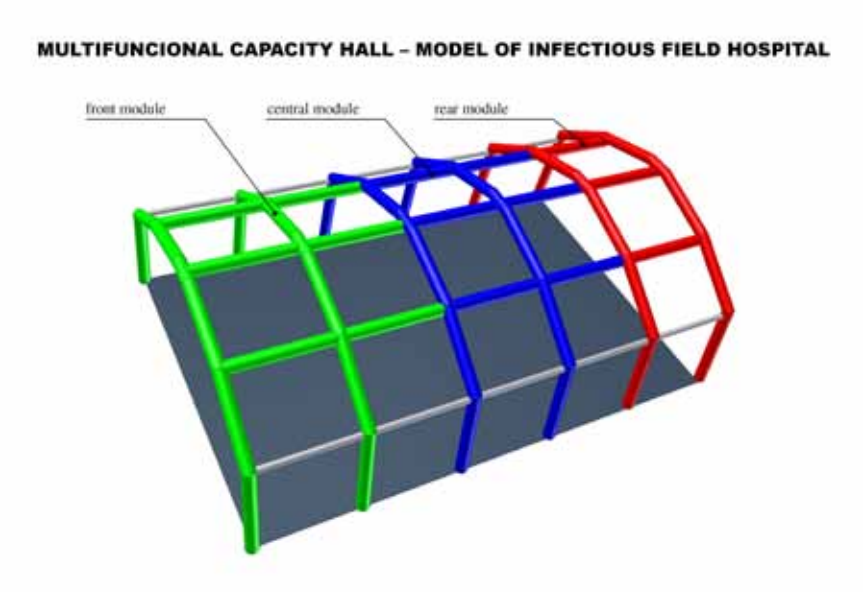
Technical parameters

- **External parameters – 3 modules (l x w x h):** **ca 12,51 x 8,3 x 4,6 m**
- **Internal parameters – 3 modules (l x w x h):** **ca 12,51 x 7,8 x 4,1 m**
- **Dimensions in packed position (l x w x h):** **ca 1,3 x 1,2 x 0,95 m - 1 module**
- **Tubes diameter:** **500 mm**
- **Weight of 3 modules:** **195 + 195 + 170 kg**
- **Total weight:** **560 kg**

Description

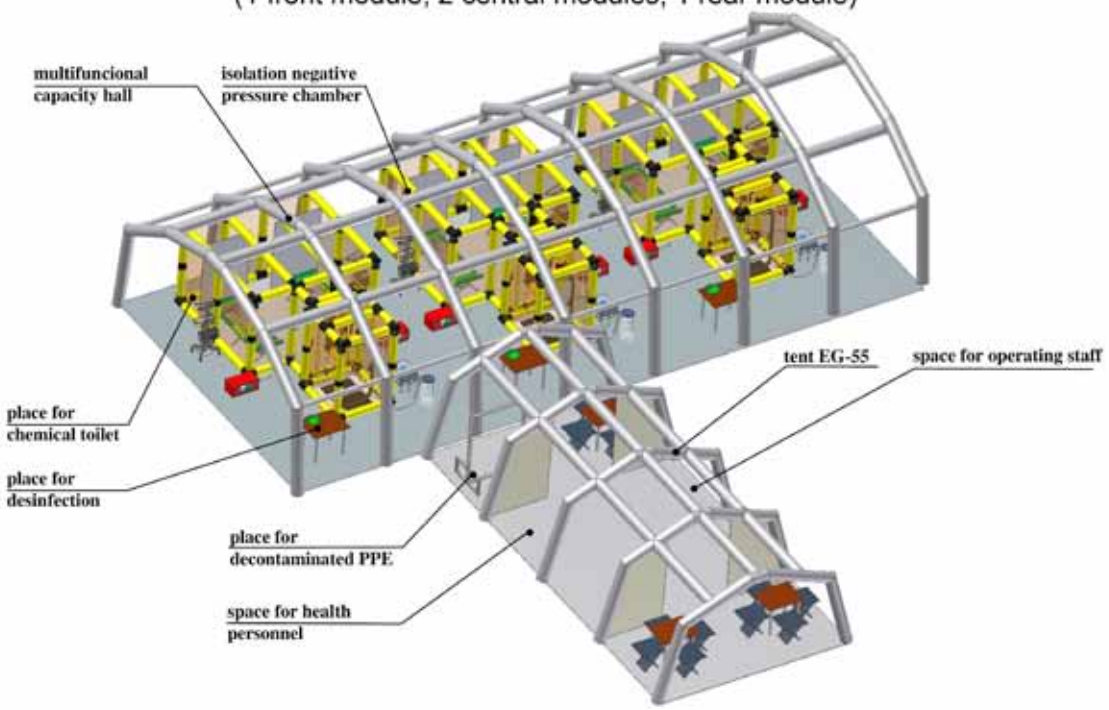
- **Tubular construction consists of tubular arcs connected together by longitudinal tubes. It is made of polyester fabric coated with PVC on both sides, the total area weight is ca. 1050g/m2. It has two inflatable and overpressure valves. The construction is single chamber.**
- **The roof covering is made of PES fabric coated with PVC on both sides, the total area weight is 650g/m2. Connecting of modules is ensured by the connecting collars.**
- **Floor is made of PES fabric coated with PVC on both sides, the total area weight is ca. 650g/m2. It is equipped with 12 pieces of handles for easy manipulation.**
- **The sleeves for heating and cables have ø 500 mm and the length 500 mm (heating sleeve – 1 pc, sleeve for cables– 1 pc).**
- **Three-layer windows (mosquito net, transparent foil and black layer of the same material as roof covering, dimensions: 500 x 500 mm.**
- **The entries for operators, dimensions 1300 x 1800 mm (w x h) at the front, side and rear walls of the hall can be opened/closed by zippers.**
- **Entries for heavy machinery, dimensions 3200 x 3600 mm (w x h) at the front and rear walls of the hall can be opened/closed by zippers (2 pcs).**
- **Internal inlay is made of a PES fabric coated with PVC on one side, total area weight is ca. 200g/m2. The liner is removable, secured to the tubular construction with straps and half-rings.**
- **Transport waterproof packing is made of PES fabric, i tis equipped with handles for easy manipulation.**
- **The set consists of:**

1) front, central, rear module	**1 pc, 1 pc, 1 pc**
2) internal removable inlay	**5 pcs**

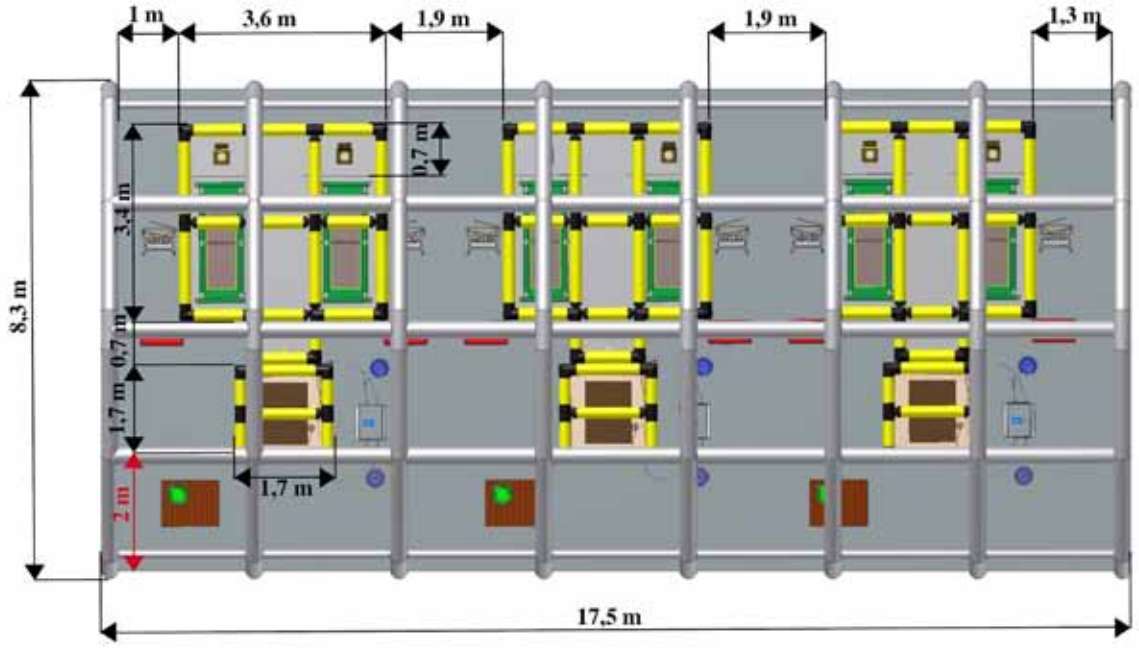


TENT SYSTEM -
MULTIFUNCTIONAL INFLATABLE HALL

Multifuncional capacity hall – model of infectious field hospital
(1 front module, 2 central modules, 1 rear module)



Multifuncional capacity hall – model of infectious field hospital
(1 front module, 2 central modules, 1 rear module)



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