



PORTABLE ISOLATOR FOR TRANSPORTATION IN SEATED POSITION

**External dimensions:
850x450x1440 mm**
**Dimensions of isolator with chair:
1100x590x1540 mm**
Weight: 12,5 kg

APPLICATION OF X-BIO

Portable isolator is a mobile device intended for transportation of patients requiring isolation from external environment.

Portable isolator has two operating modes: **the positive pressure mode** for isolation of immunocompromised patients from external environment and **the negative pressure mode** for protection of other people from a patient infected with dangerous infections.

Portable isolator has a shape that repeats the contour of a person in a seated position which allows to minimize external dimensions and to transport a patient in confined spaces (elevators, narrow corridors, staircases, walkways, etc.).

It can be used with standard wheelchairs thus transportation may be done even by one health worker. It is compatible with chairs equipped with additional stair-climbing chassis.

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Isolator is produced by high frequency welding (HFW) method with additional joint sealing where bands are bonded under high temperature.

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1 SUPPLY AND EXHAUST VENTILATION SYSTEM

The exhaust system ensures maintenance of preset (positive or negative) pressure, and the supply system provides the necessary air inflow that guarantees well-being of a patient.

Both of the systems are factory calibrated. Thus, a customer doesn't need to set any operating modes or airflow velocities.

2 CONTROL AND INDICATING UNIT

The control system allows using various pressure modes (negative, positive). Upon reaching a negative working differential pressure the indicator lamp 4 lights up green. Upon reaching a positive working differential pressure it lights up blue.

In the negative pressure mode, BSL-3 degree of protection is ensured.

In order to continuously monitor pressure maintenance, the control panel displays pressure readings inside the isolator and a battery charge level.

3 EMERGENCY ALARM

The control system is featured with an audible and visible alarm that indicates operating failures and automatically maintains the preset pressure in case of depressurisation. If the alarm system is activated, the control flash indicator 4 gets red.

5 FILTERS

The isolator is supplied with specially developed high efficiency air filters HEPA H14 or combination filters A1B1E1P3 with a threaded joint Rd 40x4mm.

Filters are designed for protection from solid or liquid radioactive or highly toxic particles, aerosols, bacteria, and viruses.

6 HERMETIC ZIPPER

The hermetic zipper, located on the edges of the front part of the isolator, prevents any leakage and aerosol particles penetration, protects from contamination, and ensures simple loading of a patient.

7 SYSTEM OF PATIENT FIXATION

The system for fixing patient's position inside the isolator consists of a safety belt.

8 SYSTEM OF CHAIR ATTACHMENT

The reliable system for attaching the isolator to a chair back consists of a safety belt.

9 PORTS FOR CONNECTING EXTERNAL DEVICES

The portable isolator is equipped with various ports for leak-tight connection of infusion solution tubes, drainage tubes, ECG electrodes and artificial lung ventilation systems.