

***A problem!!!***

***A danger of biological contamination?***

***Protection of patients with reduced immunity?***

**...there is a simple solution!**



## **The “AWAS” Mobile Pressure Isolator**

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The "AWAS" mobile pressure isolator is designed for isolating persons who pose a biological threat to keeping the environment safe. It can be made in the negative-pressure version, for people with a reduced immunological barrier, or in the standard version.

The time needed for setting up the equipment by 2 trained persons is approx. 30 minutes. Assembly of the isolator requires no special tools.

The system consists of 5 major parts: envelope of the isolation chamber, rack, elements pressing the envelope down to the ground, filtering/ventilating unit and air-lock.

The auxiliary equipment includes: disposal unit for contaminated waste; enclosure with chemical toilet; decontamination cabin for medical staff; stackable camp beds (cots); folding tables and chairs (quarantine); outer screens of the isolating chamber; auxiliary lighting fittings (fluorescent, in IP 54 polycarbonate housing); isolating pressure stretcher; remote service call buttons; video telephone; etc., as required by the Customer.



All the elements of the system are provided with separate covers for storage purposes.

The isolating chamber in its basic version has the following dimensions: length 5.8 m, width 2.9 m, area 16,8 m<sup>2</sup> and a regulated height. This makes it possible to arrange inside up to 5 bunk beds for 10 patients (e.g. in case of a quarantine), or 4 standard hospital beds.

In order to use additional medical devices inside the chamber, their conduits and tubes can be passed through the service sleeves.

The isolating chamber can also have a separate enclosure for chemical WC.

The chamber can be equipped with a replaceable panel which, owing to the use of special gloves, enables work to be performed inside the chamber without any need of actually entering it.

Typically, the isolating chamber comes with the following dimensions: (height remaining the same) 2x2m (4 m<sup>2</sup>), 2.5x2.5 m (6.3 m<sup>2</sup>), 2.7x2.7 m (7.3 m<sup>2</sup>), 2.9x2.9m (8.5 m<sup>2</sup>), 2x3 m (6 m<sup>2</sup>), 2.5x3.7m (9.3m<sup>2</sup>), 2.7x4m (11m<sup>2</sup>), 2.9x4.3m (12.5m<sup>2</sup>), 2mx4m (8m<sup>2</sup>), 2.5 x 4.9m (12.3m<sup>2</sup>), 2.7x5.3m (14m<sup>2</sup>). On request, other dimensions, being the multiple of the ones indicated above, are also available.

Because of its principle of operation (negative or positive pressure), the isolating chamber has no separate floor of its own, but uses the floor of the room instead.

Furthermore, the system enables making passages (air-locks) between different chambers and connecting even several filtering/ventilating units.



The filtering/ventilating unit enables operation with three basic capacities: 1000 m<sup>3</sup>/h, 1400 m<sup>3</sup>/h and 2000 m<sup>3</sup>/h. In the standard operation mode, the equipment capacity is at its lowest, which reduces both noise level (below 65dB) as well as power consumption.

At the moment someone enters the air-lock, the equipment will automatically change over to its highest capacity. When the person leaves the air-lock, the equipment will automatically switch over to the medium-capacity mode and, after expiry of a preset time period, it will return to the lowest air flow rate. Such a system ensures that a vacuum will be obtained inside the isolating chamber even when the inner and outer doors of the air-lock are open at the same time. All the system functions are controlled by an automation system, integrated with the filtering/ventilating unit.

The air-lock can be made in two versions: a simplified one, in the form of a suspended tent with rack, with zipper closed doors; or an extended one, made from aluminum sections with double swing doors which permit unobstructed entry of the standard hospital beds into the chamber.

In the extended version, a so-called safe entry/exit procedure is forced by the automatic control system, which prevents the two air-lock doors from being opened simultaneously. Provision is made for emergency opening of both air-lock doors. Both versions of the air-lock are additionally fitted with a special sleeve for connecting the contaminated waste disposal unit and the decontamination cabin for the medical personnel leaving the isolator. The cabin can be equipped with UV devices or another decontamination system.