

SYSTEM OF BIOLOGICAL PROTECTION

ISOLATION NEGATIVE PRESSURE CHAMBER WITHOUT BARRIER ACCESS- BIOBOX EBXT-2

Experience has shown the Biobox EBXT-06 has been very useful, therefore the Biobox EBXT-2 has been designed without barrier access as the tubes in the decontamination module entry and transitional chamber have been removed and do not have to be stepped over.

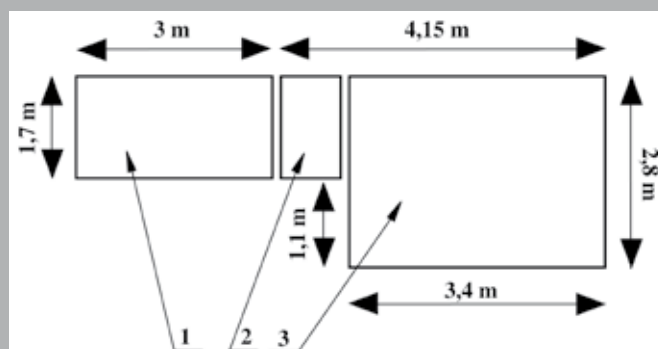
- quickly erected and serviceable within 15 minutes by two persons
- balanced air distribution inside the chamber through a new double roof construction
- the inside dimensions of the isolation chamber have been increased (3 x 2,4 m) due to placing 2 beds and a chemical toilet if needed
- better stability and dimension consistency are ensured through a new wall construction
- the inside dimensions of the decontamination module have been increased (2,8 x 1,3 m) which enables easier decontamination of staff and equipment
- filtration-ventilation unit produces a negative pressure gradient in the decontamination module, airlock and isolation chamber and ensures protective functioning of the complex system
- expelled air goes through HEPA-filter with built-in source of UV radiation which destroys captured organisms
- through the use of the entrance port it is possible to connect expensive medical devices outwardly and thereby protect them from contamination, ports are also used for connection of infusions, transfusions, ventilation, etc.
- filtration efficiency is 99,997%



The new isolation chamber provides immediate and highly efficient isolation of infected patients, safe contact between medical staff and patients and barrier-free access throughout hospitalization and decontamination. It offers BSL-3 standard of protection.

The plan layout of complex – internal dimensions

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



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