

IsoArk

Portable Isolation Chamber



Overview

The IsoArk Portable Isolation Chamber is designed for rapid setup of an infectious, biologically isolated area from the environment outside the chamber. The IsoArk is a complete solution for turning any room or area into a biologically contained and isolated area, allowing for the isolation of infected or contaminated people and matter.

The entire system meets and easily exceeds today's standards for airborne infectious isolation, including the 2003 CDC guidelines for health care infection control. Other applications may include mail screening, workplace safety in harmful dust environments and temporary laboratory work.

Description

The airlock attached to the main chamber provides the capability to move easily in and out of the isolated area without losing the chamber's negative pressure or contaminating the outside environment. This system can be equipped with an optional device for patient treatment from outside the chamber, avoiding contamination of equipment and staff. As well, required equipment can be placed outside the chamber and probes, hoses and cables can be passed through utility sleeves into the isolated area.

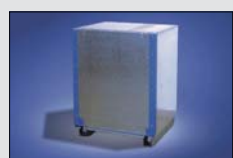
SYSTEM FEATURES:

- Developed together with the Kaplan Medical Centre
- Field tested in Successful hospital service
- Quick exit through high flushing airlock that enables very short dwell times
- Extremely simple and quick assembly without the need for tools
- Cost effective and flexible
- Auto activation sensor
- High efficiency (HEPA) filter
- Extremely low noise level
- Filter condition indicator
- Simple filter exchange without the need of tools



NBC-Filtration & Ventilation Systems





Optional transport containers provide product protection and maximum storage and shipping capabilities: 24 complete IsoArk systems in one easily packed 40 foot shipping container

Main Chamber

The main chamber is constructed from a lightweight aluminium 'quick connect' structure supporting the

transparent chamber liner that is made from special resistant laminate.

Airlock

The airlock is a self supporting construction consisting of polymeric doors for quick and easy access for personnel and equipment. When entering the airlock the negative pressure is maintained due to the double door configuration. The compact design of the airlock reduces dramatically the wait time for a complete air change in the airlock



Filtration System

The **FA 2000 HSZ filtration system** is a cost effective and practical alternative to costly and permanent isolation rooms and provides the necessary isolation protection within minutes. The filtration system has three different airflow modes, allowing quick air flushing when needed while minimizing noise level and energy

use when high flush rates are not required. Additionally, the system is equipped with a differential pressure gauge, indicating the condition of the HEPA Filter and for the filter or UV radiation unit's replacement, no special tools are required.



Live Action in the IsoArk Type 90 x 120 (Hospital Kaplan, Tel Aviv)



Patient Treatment Inside Chamber

Safe Waste Disposal

Patient Access using Glove Box

Optional X-ray Sleeve

Optional IsoArk Items

Negative Pressure Indicator

The negative pressure indicator indicates the level of negative pressure in the main chamber.

If the negative pressure drops out of the acceptable range, a red light blinks on the unit and an audible alarm is sounded. An integrated potential free contact enables tracking of the pressure status by connection to a computer or an alarm system. The pressure indicator is installed at the outside of the IsoArk airlock and an air pipe connects it to the sensor in the main chamber.

Internal Utility Racks

The internal utility racks hold equipment and connection points that may be required inside the Isolation Chamber. The cables and hoses of the equipment can be routed into the chamber through utility sleeves which are incorporated into the chamber liner.



Small Transport Container

The transport container houses the filtration system FA 2000 HSZ.

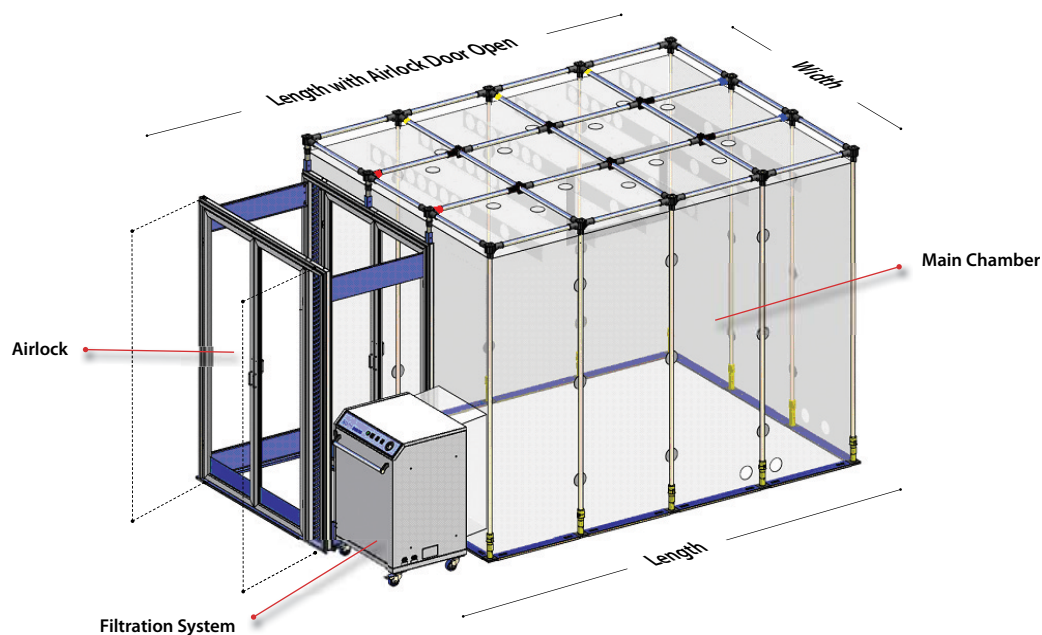
APPLICABLE STANDARDS

- Quality control according to ISO 9001:2000
- Quality assurance AQAP 2110
- HEPA filter efficiency EN 1822 IEST-PR-CC-001.3
- Filtration system certified according to medical standards
- FA 2000 HSZ certified according to IEC 60601-1
- FA 2000 HSZA certified according to UL 60601-1 UL 507





Beth-El Industries



Technical Specifications:

Main Chamber					
Chamber Type	Width m (inch)	Length m (inch)	Height m (inch)	Weight kg (lbs)	Length with Airlock and Open Doors m (inch)
90 x 60*	2.35 (92.5)	1.60 (63.0)	2.35 (92.5)	33.5 (73)	3.20 (126)
60 x 90*	1.60 (63.0)	2.35 (92.5)	2.35 (92.5)	33.5 (73)	4.65 (183)
90 x 90	2.35 (92.5)	2.35 (92.5)	2.35 (92.5)	50 (111)	3.95 (155)
90 x 120	2.35 (92.5)	3.10 (122)	2.35 (92.5)	67 (148)	4.70 (185)
120 x 120	3.10 (122)	3.10 (122)	2.35 (92.5)	89 (196)	4.70 (185)
120 x 150*	3.10 (122)	3.85 (151.5)	2.35 (92.5)	111 (245)	5.45 (215)
Other dimensions are available upon request.					
Airlock					
	Width m (inch)	Length m (inch)	Height m (inch)	Weight kg (lbs)	
	1.60 (63)	0.90 (35.5)	2.10 (83)	54 (119)	
Filtration System					
Technical Data		FA 2000 HSZ	FA 2000 HSZA	FA 2000 HSZB	
Nominal Voltage		230 VAC	115 VAC	100 VAC	
Power Consumption		550 Watt	680 Watt	680 Watt	
Nominal Frequency		50 Hz	60 Hz	50 / 60 Hz	
Airflow Rate (3 Stages)		1000 / 1400 / 2200 m³/h (591 / 823 / 1180 cfm)			
Noise Level		52 / 56 / 65 dB			
Filtration Efficiency @ Particle Size 0.3 Micron:					
Standard : H 13		99.995 %			
Optional : U 15		99.99995 %			
Optional : Combi Filter		Combined HEPA Filter and Activated Carbon Filter			
		Width m (inch)	Length m (inch)	Height m (inch)	Weight kg (lbs)
		0.703 (27.7)	0.744 (29.3)	1.076 (42.4)	86 (190)
Transport Containers (Optional)		Width m (inch)	Length m (inch)	Height m (inch)	Weight (Empty) kg (lbs)
Large Transport Container with Trolley		0.735 (29)	2.31 (91)	1.135 (44.5)	145 (319)
Small Transport Container for FA 2000 HSZ		0.735 (29)	0.77 (30.5)	1.15 (45.5)	65 (143)

Dimensions available upon request

Specifications are subject to change without prior notice

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