

IS LA

NEGATIVE PRESSURE
BIOCONTAINMENT UNIT



DISTRIBUTED BY



A Sago Medica Company

The ISOLA solution comes from the biocontainment sector for pharmaceutical research.

- Increase safety for your healthcare professionals
- Convertible to positive pressure operation with special kit
- Modular and adaptable to any need for space or beds
- Quick and easy installation
- Removable and reusable (investment protection)



ISOLA is aimed at facilitating assembly on site without the use of any special instrument or specialized personnel and to make installation possible even in premises not particularly accessible for traditional structures; the proposed system allows dismantling, re-assembling, extensions, reconfigurations and upgrades of the air treatment, enhancing further the characteristics of modularity and flexibility.

ISOLA is based on the composition of equal portions to be joined together on site up to achieve the desired confined volume size. Biological containment is obtained with the study of an optimized layout that includes an AIRLOCK entrance pre-chamber, accessories for the exit of infected material or for the interfacing of process equipment and systems on the wall, a confinement structure with very low losses, a double barrier at the entrance

and air outlet through HEPA filtration, a double section HEPA filter in expulsion for safety redundancy, a self-ventilated extraction module of industrial design for ongoing use and high performances.

The advantage of the realization in assembly KIT, given by the technological design, with an enviable brightness that reduces the operators isolation factor, guaranteeing finishes and performances for the most demanding sectors, ISOLA can be an effective and very convenient solution and meets the flexibility needs typical of maxi emergencies.

ISOLA 1 (one single room version) can be installed in about 3 hours and at the end of the emergency it can be disassembled and stowed ready for use for future activities.

Standard layout of ISOLA system

- Load-bearing structure with modules made with technological profiles joined together by hidden bolting, RAL9010 color;
- Transparent flexible wall module in conductive / dissipative plastic material;
- Sanitizable with alcohol-based products commonly used in hospital;
- Sealing module with transparent flexible conductive / dissipative plastic panel;
- Can be sanitized with the sterilizing products in use;
- Door module, consisting of an anodized aluminum frame with coupled glass infill
- Safety/ light plastic material ready for insertion on wall module, can be equipped with interlock accessories;
- Door passage size 1225x2200 mm;
- delivery filter module MTF 4824 K, of the dimensions of the ceiling module, in the number
- Necessary to ensure the entry of the fresh air and the required class of contamination;
- Filtration efficiency H14;
- MRF SPECIAL K return filtering module, designed for flexible connection to the OMK PF 4 H13 extraction; filtration efficiency H14;
- Self - ventilating module OMK PF 4 H13, stand alone unit with trolley extraction, necessary for the control of depression inside the room;
- Prewired type electrical system with quick plugs including the electrical panel
- Command and control via MODBUS protocol;
- There are special systems for accessing the interface connections: patient/monitor, patient/infusion pump, patient/pulmonary ventilator in the three metal columns on the patient's head side.
- All the typical functional parameters of the Bioroom, such as pressure, filters wear, can be monitored, controlled and remotely controlled.



Technical data

- Delivery filtration efficiency: H14
- Expulsion filtration efficiency: H14 + H13
- Treated air flow: 800 mc / h +/- 20%
- Replacements per hour: 45 +/- 20%
- Class of contamination. according to ISO 14644: ISO7
- Diff. Pressure Room-External: -20Pa +/- 20%
- Checks: diff. Pressure, filter wear
- Installed power: 0.6 kW
- Power supply: 230V 1F 50Hz (interlocking plug CEE)
- Sound level: <58 dB (A)
- EC Certification
- Documentation: user manual, maintenance, installation.



Flexwalls

Static Dissipative PVC soft sheet (GRID) with PLASTIC CORE.

The applications are partition for cleanroom and curtains, portable window, covering materials for IC panels and others for anti-static application..

Caratteristiche / Content		Specifiche / Specification		Metodo di Prova / Test Method
Resistenza della Superficie Surface Resistance	Griglia Grid	Trasparente Transparent		ANSI/ESD S4.1
		$\leq 1 \times 10^6$ ohms	$\leq 1 \times 10^{11}$ ohms	
Tensione Elettrostatica Electrostatic Voltage	< 50 V	< 100 V		Misuratore di campo elettrostatico Electrostatic Field Meter
Decadimento Elettrostatico Electrostatic Decay	< 0.5 sec			MIL-B-81705C, 5000V to 500V
Forza di tensione Tensile Strenght	MD (\leftrightarrow) 1.8 kg/mm ²			ASTM D-882
	TD (\updownarrow) 1.8 kg/mm ²			
100% Modulabile 100% Modulus	MD (\leftrightarrow) 1.1 kg/mm ²			ASTM D-882
	TD (\updownarrow) 1.8 kg/mm ²			
Allungamento Elongation	MD (\leftrightarrow) 170%			ASTM D-882
	TD (\updownarrow) 210%			
Restringimento al calore Heat Shrinkage	A temperatura ambiente : < 1% At room temperature : < 1%			I Nostri Test di Laboratorio Our Lab Testing
	60 C x 30min in H2O : < 5%			
Misure / Size	Spessore / Thickness	0.3 mm, 0.5 mm, 1 mm		I Nostri Test di Laboratorio Our Lab Testing
	Larghezza / Width	1370 mm		
	Lunghezza / Length	30M per rotolo / roll		

ISOLA 1



One-bed module and one
Airlock pre-chamber

EM0010321378

ISOLA 1, in basic working version.
(In kit to be assembled)

ISOLA 2



Two-bed module and one
Airlock pre-chamber

EM0010321378D

ISOLA 2, in basic working version.
(In kit to be assembled)

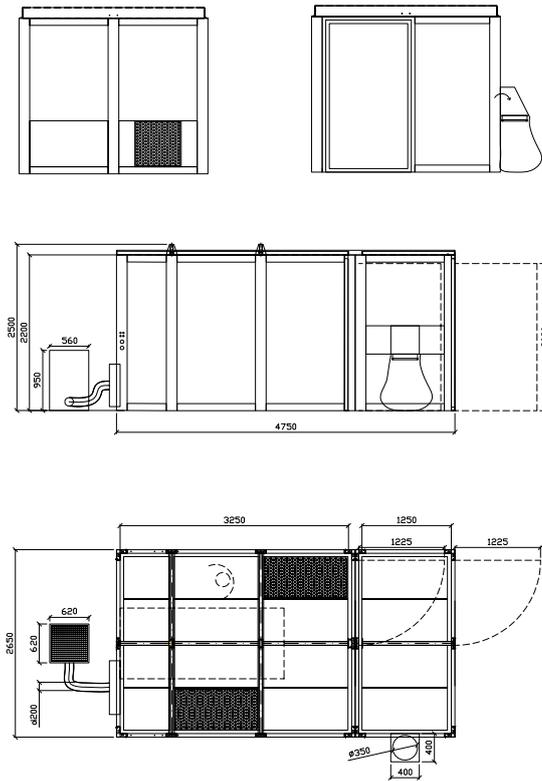
ACCESSORIES

EM0010321379	Flat coating decked out in mono PVC antistatic PVC, sp 2mm
EM0010321380	Interlock for No.2-door (No.4 traffic lights plus no.2 electro-locks -n.1 ECU - wiring)
EM0010321381	Lighting to ensure 500 lux averages
EM0010321382	Air conditioning system to ensure 24°C +/-2°C relative humidity <60%, with external conditions -5°C<T<35°C and relative humidity 50%;
EM0010321383	Portable compressed air sterilization system for peracetic acid mists
EM0010321384	MDA 3000 air shower for staff
EM0010321385	Ventilated laminate flow passbox with UV radiation and interlock hatches
EM0010321386	Autoclave passing-by interfaced to the wall of the entrance room
EM0010321387	Installation at customer's location
EM0010321388	Training for use
EM0010321389	Cold-concentrated disinfectant and sterilizing, to be diluted, 6 Kg/sc
EM0010321390	Strips to check the residue Minncare (>1%), 100 pz
EM0010321391	Filter HEPA MTF4824K
EM0010321392	Filter HEPA MRF SPECIAL K
EM0010321393	Filter TFA per unità OMK PF4

IS LA 1



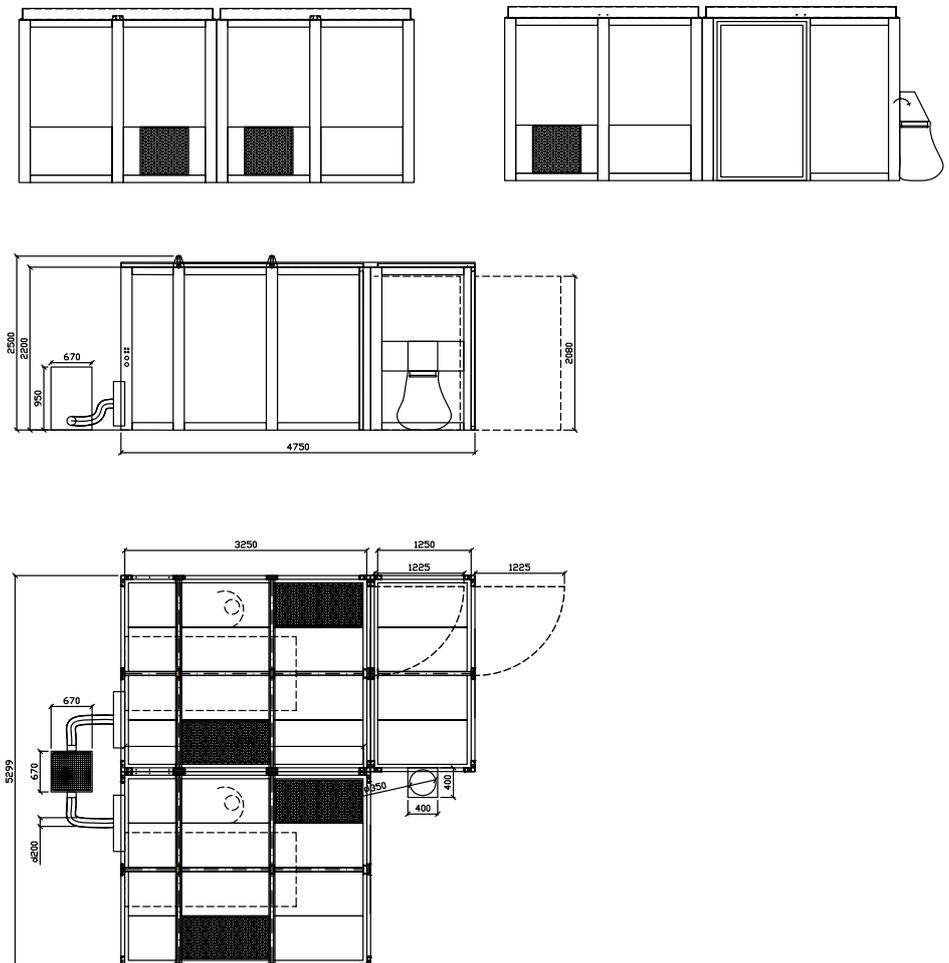
One-bed module and one
Airlock pre-chamber



IS LA 2

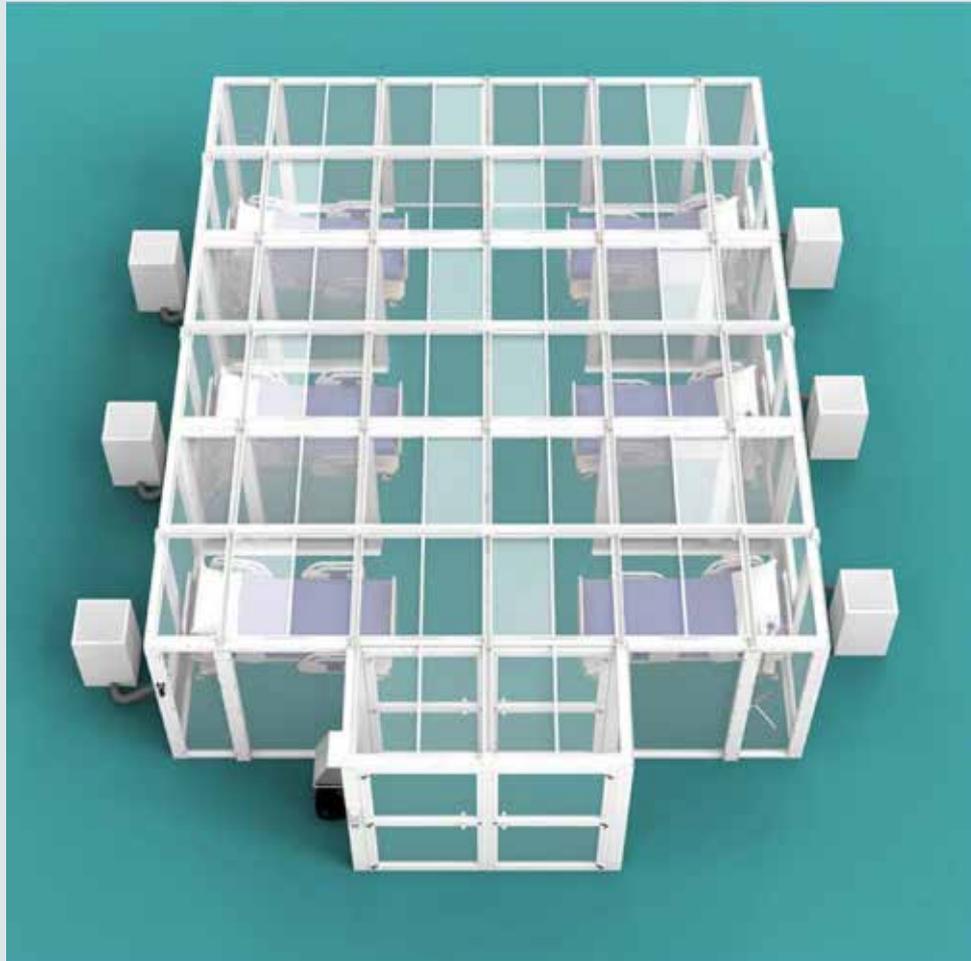


Two-bed module and one
Airlock pre-chamber



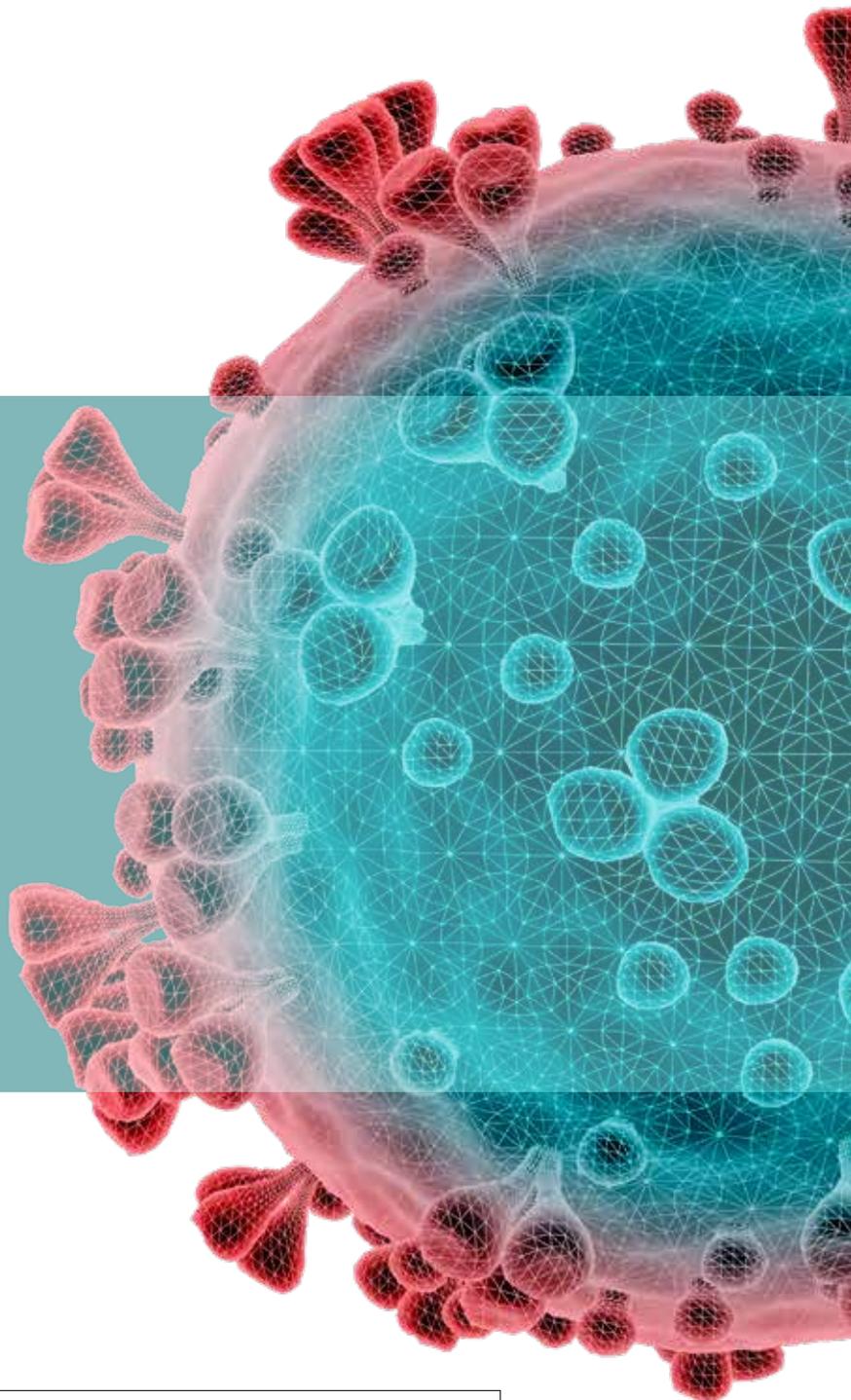
IS LA 6

Modular and adaptable to any need for space or beds





NEGATIVE
PRESSURE
BIOCONTAINMENT
UNIT



DISTRIBUTED BY



A Sago Medica Company

www.simad.net