

O.M.A.R. TECHNOLOGY S.R.L.



Progettazione e Costruzione attrezzature speciali
Planning and construction special equipments

INFECTED PEOPLE TREATMENT



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O.M.A.R. TECHNOLOGY

- Health Services represents our main activity, where we manufacture varying and standard volume Shelters to be fitted out for hospital purposes and to be used for setting up field hospitals.



Before use, our equipment is tested for NATO approval at relevant army centres; these tests include a Climatic Chamber test.

The Health Departments of the Italian Armed Forces, which have 7 complete units, have used the heli-transportable Operating Theatre Units with Pharmacies and Analysis Labs during NATO/UN missions in:

SOMALIA	from	December	92	to	March	94
MOZAMBIQUE	from	April	93	to	December	94
BOSNIA	from	January	96	to	July	97
ALBANIA	from	February	97	to	August	97
KOSOVO	from	May	99	to	Today	
AFGHANISTAN	from	September	03	to	Today	
IRAQ	from	August	04	to	Today	

and these performed well in hot and dusty zones such as Somalia Iraq, as well as cold areas like Bosnia.

THE SOLUTION WE PROPOSE

The solution that we propose is based on the experience acquired during the previously mentioned NATO/UN missions and liaison with Italian and other country soldiers who took part in these missions, performing more than 2,000 different types of operations.

We propose a complex with 5 inflatable tents or more where is possible to treat and assist the infected people in a **separate area** to preserve health of the population.

It is composed by:

- N°1 Inflatable Tent for doctors.
- N°1 Inflatable Tent as wardrobe zone
- N°2 Inflatable Tents with one bed each, to treat patient that **can't stay** in contact with other people.
- N° 1 inflatable tents with 8 beds to treat infected patients that **can stay** in contact with other people.
- Series of medical equipment and accessories illustrates in the following presentation
- Medical Incinerator (clothes and other infected material)
- Mortuary module

It is possible to increase the number of tents depending how many patient do you need to treat.

INFLATABLE TENTS CHARACTERISTIC



These pneumatic structures have been designed and produced to face any need and emergency situation in the best possible way.

These high-safety and high-tech structures can be usefully employed both in the civil and military field. They are suitable –with no limitation - to any need, from hospital installations to storage of materials. The limited weight and bulk when deflated, the easy stowing and fast assembling are only some of the features which have conferred to these structures their unique supremacy as far as the field of logistics is concerned.

This material is able to withstand temperatures ranging from -50°C to $+66^{\circ}\text{C}$ and guarantees unique standards of reparability, resistance and wear.

The production technology employed is the high frequency electronic welding (HFW ®), which operates without any interposed material and allows a quality control that would be extremely difficult to achieve by means of different assembling systems.

That is why EV has got today's international supremacy in the fields of civil and military inflatable industry.

High frequency electronic welding is employed to assemble materials. This technology guarantees a perfect union of parts by means of controlled molecular fusion. No glue or adhesive is used; therefore, no detachment of material can occur as, once welded, the materials form a single body.

The top covering part (roof) is joined to the lower part (basin floor) by means of the same welding procedure, thus assuring:

water - proofness, protection against external polluting agents and a better inner insulation.

It uses electronic high frequency welding (H.F.W.), which allows the joining of two parts without using any glue or adhesives but instead uses a process that we call "controlled fusion". The H.F. welding takes advantage of the material's dielectric properties and does not create dangerous annealing zones.

Recently, to improve our flexibility, we have introduced a "thermo-bonding" process for special production operations, such as prototypes and small batches of specialised products to customer's individual requests. This process uses "contact heat" technology to produce the fusion without the need for unique tooling.

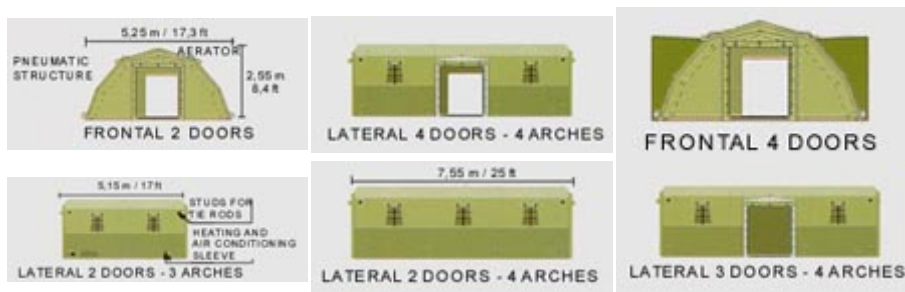
For all of its professional, military as well as leisure products it is used a material called EV Marine Compound (EMC®). This is an extremely abrasion resistant and chemically resistant TREVIRA-fabric coated with a unique compound.

This coated fabric has been specially developed to meet the demanding requirements of land based and marine applications.

It is composed of a high tenacity Trevira base with a 275 to 3.300 decitex count. The particular characteristics of tensile strength, tear resistance and puncture resistance make this material the best of its kind.

EMC has also been proved to be resistant to a wide range of temperatures (from -50°C to + 70°C in accordance to U.N.I. regulations). This enables its use in a wide variety of climates without suffering any damage.

TENT TYPE	SURFACE	VOLUME
4 arches	sqmts ± 39	m ³ ± 75,5



Doors Dim. cm 175 x 156	Zipper closing and perimetrical velcrum; Lateral fixing snap-fasteners; Upper bands keeping the closing sheet up; Perimetrical drip; Upper clutches for connecting side and front corridors.
Windows Dim. cm 60 x 45	Closing sheet with perimetrical velcrum; Lateral fixing snap-fasteners; Removable mosquito-net; Upper bands keeping the closing sheet up
Inflation valves	Two for each arch; Velcrum protecting flap
Sleeves for heater or air-conditioner	Four for each tent
Other tent components	Studs for outer tie-rods; Clutches for the arch distance poles; Inner studs for insulation and dividing sheets; Electric plant preset
Weight	4 arches 4 doors Kg 180 396 (lb).
Standard Accessories	Bag with tent pegs and hammers; bag with distance poles; Repair kit and manual inflator; Manual of use

EQUIPMENT LIST

OBJECT	QUANTITY
INFLATABLE TENTS	5
ELECTRIC INFLATOR FOR TENTS	5
ELECTRICAL SYSTEM FOR TENTS	5
CONNECTIONS	4
WATER CONNECTION	1
WATER TANK	1
WASTE WATER TANK	1
WC AND SHOWER FOR DOCTORS	1
WC AND SHOWER FOR PATIENT AND DOCTOR EXIT AFTER VISIT	3
AIR CONDITIONING FOR TENTS	5
INCINERATOR	1
PATIENT BED (3 SECTORS ON WHEELS)	10
MATRESS AND PILLOW	10
VENTILATOR ON TROLLEY WITH OXYGEN TANK	5
MONITOR MULTIPARAMETRIC	5
WORKSTATION FOR MONITOR	1
DESK AND CHAIR	4
POINT OF CARE REFLOTON ROCHE	2
STAINLESS STEEL WASHBASIN	2
EXAMINATION LAMP	10
EYE WASHING	3
EMERGENCY TROLLEY	2
REFRIGERATOR FOR DRUGS	1
BLOOD REFRIGERATOR	1
CABINET FOR PERSONAL PROTECTIVE EQUIPMENT	2
BOX FOR INFECTED MATERIAL	200
BEGS FOR CORPS	100
MORTUARY REFRIGERATOR	2
PROTECTION SUIT TYPE3	100
MASK FFP3	100
GLOVES	1000
ISOLATION STRETCHER	2
STRETCHER	2
LIGHT TOWER FOR THE COMPLEX CAMP	3
GENERATOR	1
FEVER SCAN	20

