



VELMAT

MODULAR HOSPITAL

- MODULAR HOSPITALS SUPPLY PROJECT -

VELMAT

OUR OBJECTIVE

TO SUPPLY MODULAR HOSPITALS IN CONTINGENCY SITUATIONS WHILE ENSURING ONGOING MEDICAL ACTIVITIES AND PATIENT CARE UNDER HUMANE CONDITIONS, EMPLOYING HIGH QUALITY AND CUTTING EDGE EQUIPMENT.

THE MODULAR HOSPITALS are capable of accommodating 10, 50, 100 or 200 beds; offering flexibility to adjust inpatient capacity by simply adding or removing service modules, which affords a great advantage as they adapt to the service demands of the affected area.

THE MODULAR HOSPITALS with approximately 1.200 mts are required to install a hospital accommodating 50 beds and a group of 40 people are required to have it up and running in 4 hours. 20 feet containers can be expanded either manually or through hydraulics.

Our **MODULAR HOSPITALS** Containers have 20 'and 40' feet and can be manually or hydraulically expandable. They may be suitable for providing multiple services such as Intensive Care, Medical Emergency, Operating Room, Preoperative, X-rays, Medical supplies, Clinical laboratory, Sterilization, Technical Support and Hospitalization

In addition, **THE MODULAR HOSPITALS** boast service support areas, integrated air conditioning systems throughout all areas, an electrical supply grid and fresh water supply, sewage and sewage treatment plants.

THE MODULAR HOSPITALS cover all medical services required to provide integrated care under critical conditions wherein the response must be congruent to the medical needs of the population facing unforeseen events, or as temporary replacements for permanent hospital facilities which are being remodeled or whose critical areas are under large scale maintenance or undergoing repairs.





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GREAT BENEFITS

EASY TRANSPORTATION, INSTALLATION AND REMOVAL. OUR MODULAR HOSPITALS
CAN BE TRANSPORTED BY LAND (TRUCK OR TRAIN), PLANE OR SEA LANE
AND THUS PROVIDE FASTEST MEDICAL AID, REGARDLESS OF WEATHER
AND EXTREME ENVIRONMENTAL CONDITIONS.

MOBILITY

The main benefit of these types of hospitals is that the medical services required by a community may be addressed in record time and the medical services may be administered in places where medical facilities are nonexistent.

- Emergencies
- Natural Disasters
- Health Posts
- Remodeling of Hospital Services
- Oil camps
- Miners camps

TECHNOLOGY

Cutting edge medical equipment is used in **THE MODULAR HOSPITALS**. Voice or data communications can be established through cable or wireless.

VERSATILITY

The modules can be configured not only into a complete hospital structure which may accommodate 100 beds, but they can also be installed in different medical unit sizes according to the actual medical service demands based upon modular design. **THE MODULAR HOSPITALS** can be transported by trucks, ships, trains and on freight planes.

WARRANTY

The infrastructure has a 1 year warranty against damages or operation malfunctions upon its installation and start up date. Likewise, the medical equipment has a 1 year manufacturer's warranty.





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ADAPTABLE & FUNCTIONAL

THE MODULAR HOSPITALS ARE USED IN EMERGENCY SITUATIONS.
CONFIGURATION AND DESIGN IS BASED ON STAGE STRUCTURED USE
AND AGREE TO THE NEEDS OF USERS.

1. COMMAND AND COMMUNICATIONS MODULE

It is the system's command and communications center and it's responsible for the medical command services either through the use of cable or wireless whereby voice data communication may be established.

2. INTENSIVE THERAPY MODULE

It has the basic equipment to monitor patients and help in their recovery process. It is centrally located for quick access to other services.

3. SURGERY MODULE

Emergency surgery and chest cavity surgeries, abdominal decompressions, and brain scans. It has two areas with two operating tables wherein multiple surgeries can be performed throughout the day. It also has lights, an anesthesia machine, anesthesia monitors, suction units, etc.

4. PREOPERATIVE MODULE

Preoperative readiness as well as for emergency surgeries and preoperative conditioning. Multiple patients per day can be processed in this area. It is equipped with running light, an anesthesia machine and a suction unit.

5. X-RAY MODULE

This module is used for X-ray diagnosis of different body parts such as the head, chest, spine, extremities, etc. It's equipped with a digital x-ray unit and a modern x-ray film printer.





6. MEDICAL SUPPLIES MODULE

Storage, supply and distribution of medical supplies for first aid in the event that contingency situations arise. It's equipped with 2 refrigerators to be used as blood banks, 4 medicine cabinets, 6 general cabinets and 2 instruments cupboards.



7. CLINICAL LABORATORY MODULE

It is used as a routine clinical laboratory including blood and urine testing, blood typing, etc. It is equipped with a clinical analyzer, blood gas analyzer, gene amplifier, among others. It is capable of processing 20 samples per hour. In urine and blood can be processed from 20 to 40 samples per hour.



8. STERILIZATION MODULE

Washing, drying, storing, and sterilizing surgical medical instruments by means of washing devices and ultrasonic cleaning. The module's interior is divided into a washing ward and a sterilization ward.



9. TECHNICAL SUPPORT MODULE

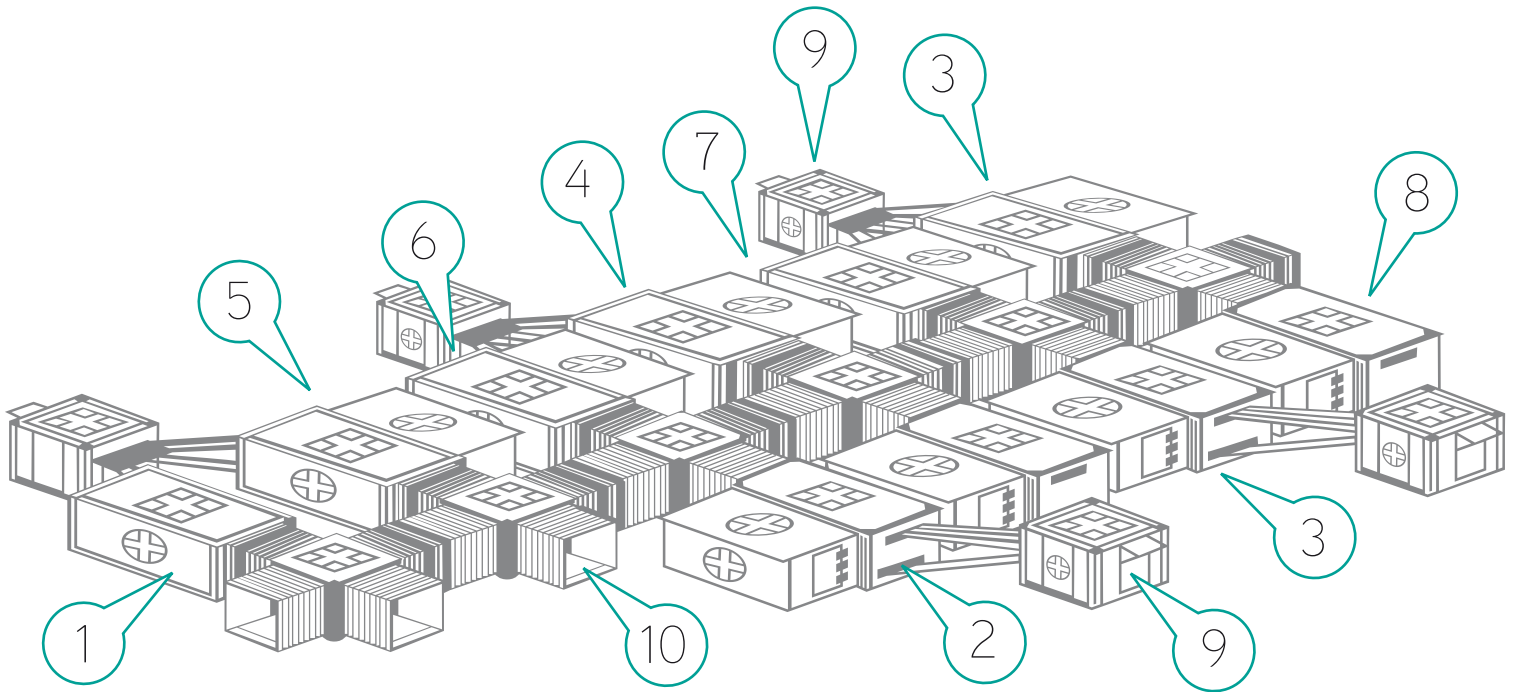
Supply of medical gases (oxygen, nitrous oxide and suction), water, electricity, heating and air conditioning to the system throughout: Bathrooms and showers, Laundry, Kitchen, Morgue.



10. HOSPITALIZATION MODULE:

Accommodates patients who should not be evacuated and who may resume working or may be discharged in a few days. It has rooms within containers which are used as a quick care units. It is characterized by its reliability, durability and resistance to wind pressure, rain and low temperatures.

STRUCTURE AND FUNCTIONAL AREAS



1: Command and Communication 2: Intensive Care Module 3: Operating Room 4: Pre-operative 5: X-Ray
6: Medical Supplies 7: Clinical Lab 8: Sterilization 9: Technical Support Module 10: Hospitalization

GENERAL SPECIFICATIONS

- Documents and medical equipment manuals
- Physical space required 30 m² (18 beds)
- Physical space required 1.200 m² (50 beds)
- Physical space required 2.100 m² (100 beds)

→ | Folded Module |



| Unfolded Module | ←

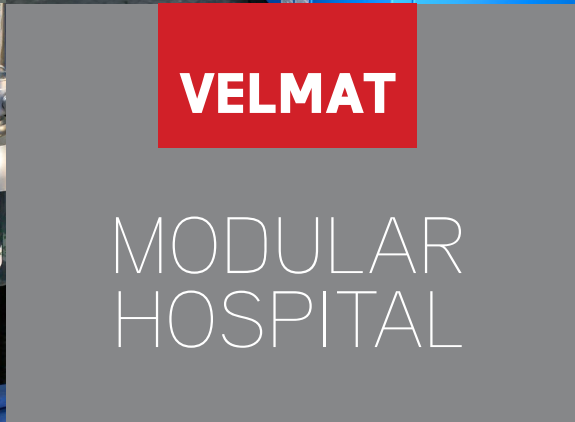


MODULE DIMENSIONS

| No. | Module Name | Specifications | Type | Quantity |
|-----|--|--|-----------------|----------|
| 1. | Operation & Emergency treatment shelter | 6.058 mm x 2.438 mm x 2.438 mm (Expanded Width: 6.260 mm) | Double Expanded | 1 |
| 2. | Medical supply & Sterilization shelter | 6.058 mm x 2.438 mm x 2.438 mm (Expanded Width: 6.260 mm) | Double Expanded | 1 |
| 3. | Clinical Laboratory shelter (with corridor) | 6.058 mm x 2.438 mm x 2.438 mm | NON- Expanded | 1 |
| 4. | Communication & Water supply (with corridor) | 6.058 mm x 2.438 mm x 2.438 mm | NON- Expanded | 1 |
| 5. | Medical Gas supply & Power supply shelter | 6.058 mm x 2.438 mm x 2.438 mm | NON- Expanded | 1 |
| 6. | Air Conditioner - Storage Shelter | 6.058 mm x 2.438 mm x 2.438 mm | NON- Expanded | 1 |
| | | | Total | 6 |

TIME AND SPACE REQUIREMENTS

| # Hospital beds | Space required M2 | Assembly time |
|-----------------|-------------------|---------------|
| 18 | 300 | 1 hour |
| 50 | 1200 | 4 hours |
| 100 | 2400 | 1 day |
| 200 | 5000 | 2 days |



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