

MiniMax Module System



“Do You need two additional beds or a complete Living Quarter...”

MiniMax module systems consist of self-contained modules which can be used as stand-alone modules or connected to each other to a larger unit depending on the Clients requirements. MiniMax is due to its size (30'x 8'x 10', LxWxH) easy to handle and can easily be transported on the roads by truck or by cargo vessels as a freight container. MiniMax system can have a number of different configurations to suit all types of demands.



MiniMax Module System

Modular Sections Principle

For the last 35 years Emtunga has been one of the leading Living Quarters Module suppliers worldwide. Our design and fabrication principle is based on a so-called Modular Section Principle where the Living Quarters Module is divided into a number of smaller module sections, stacked side-by-side or on top of each other. This fabrication method has a number of advantages over traditional building methods. With this experience we are comfortable to now release the MiniMax system consisting of self-contained modules which can work separate or as a large temporary accommodation unit.

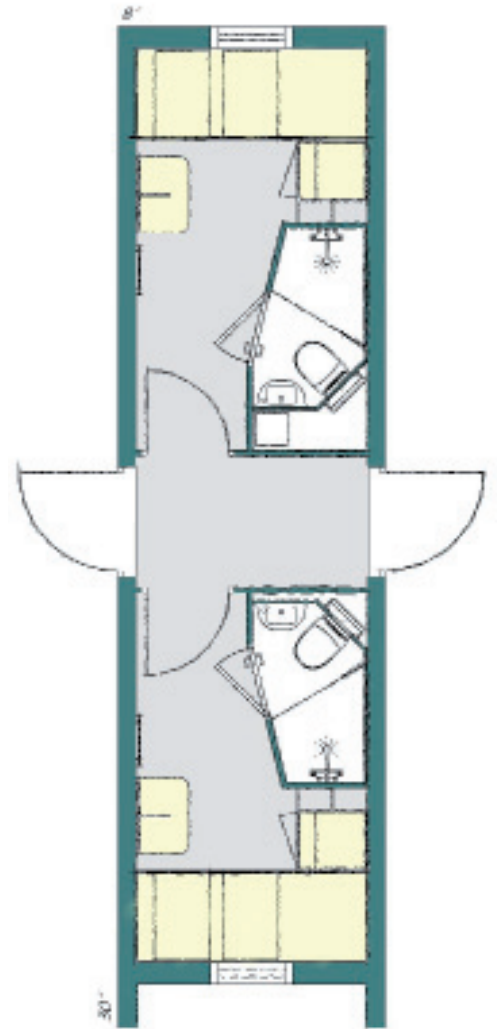
Modules are MC-complete at delivery and as far as possible pre-commissioned. We can offer anything from single module delivery FAS Sweden to complete accommodation units installed on site with complete testing and commissioning.

MiniMax different configurations

We can offer a number of different configurations for MiniMax system and all within the same external dimensions of the module:

- 2 x 1-man cabins with dedicated bathroom (layout fulfils the requirements of NORSOK C-001, 7.2.1 Cabins)
- 2 x 2-man cabins with dedicated bathroom
- 2 x 2 person office
- Gymnasium
- Internal stair (clear width of stairs are 900mm) / Store / Utility room
- 1 x 1 person office / Conference room for 8 persons
- Galley, complete with Dry store, Cold & Hot Preparation, Dishwash and Servery. A Galley for 100 POB consist of 5 MiniMax modules.
- Mess room for 18 persons
- Laundry with separate Clean and Dirty areas

Other configurations can be offered upon request.



MiniMax Module System



Technical Description

STRUCTURAL

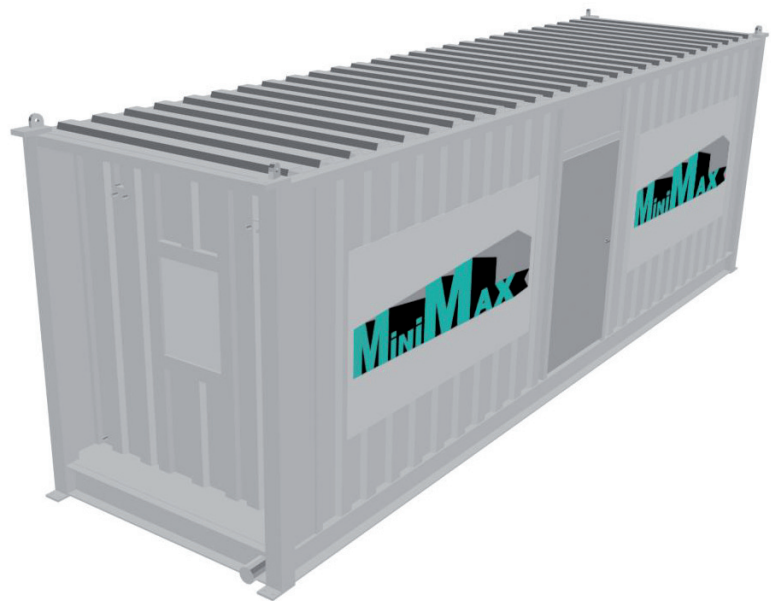
Modules are constructed from hollow beam sections and corrugated steelplate. Material and welding are according to EN. MiniMax Modules are designed according to ENV 1993 and DNV 2.7-1.

PAINTING

Due to the modular section system, each module will be blasted and painted indoors in heated surface treatment workshops. This gives each module section a durable long lasting surface covering. Paint system are according to ISO 12944 and ISO 8503.

ARCHITECTURAL

The MiniMax module is delivered complete with all necessary equipment and furniture. The material selection criteria is always based on safety, working environment, Life Cycle Cost (LCC) and the availability of spare parts worldwide.



MiniMax Module System

Safety and Working Environment

The following factors are considered in the MiniMax single module or larger Accommodation units layout and design in accordance with regulations and safety studies;

- Passive Fire Protection. A-60 decks and bulkheads will be provided for external decks and bulkheads in accordance with regulations. Other fire ratings such as H-rated decks and bulkhead can be provided if required by the Client.
- Active Fire detection system.
- Fire fighting system (portable extinguishers).

For larger Accommodation blocks;

- Fire fighting systems (internal hose reels). The use of sprinkler system is not a standard requirement any more as all internal equipment and material is flame retardant or non-combustible. However sprinkler can be provided if required by the Client.
- Segregation of certain areas such as clean/dirty areas, noisy/quiet areas etc.
- Escape route philosophy.
- Fire suppression system in the galley hood.
- Reduction of internal noise levels and sound transmission from room to room.
- Internal air quality and number of air changes for various areas.
- Reduction of vibration transmission to the internal areas of the Living Quarters Module from adjacent equipment on the platform.



MiniMax Module System



HVAC

We can design according to;

- Max outdoor climate for design: 35°C, 50% R.H.
- Min outdoor climate for design: -10°C.
- Design indoor climate: 22°C ± 2°C.
- Air changes (including return air) in any area will be according to regulations.
- The supply and extract units will provide 1x100% (No redundancy).

The airflow is adjusted to obtain a slight overpressure in the Living Quarters Module. The room temperature in each room can be adjusted separately by means of a duct heaters and a thermostat. All penetration through A-rated bulkheads and decks are provided with a fire damper (for ducts with free cross-section area exceeding 0,075m²).

Other design conditions can be adopted in order to fulfil project requirements.

EIT

The MiniMax Module is provided with all necessary electrical equipment, such as;

- Internal lighting including emergency lighting.
- Electrical outlets and switches.
- Internal sub distribution boards.
- HVAC control system.

The module can be equipped with Fire & Gas, Instrument and Telecom field equipment for connection to the platforms overall system via junction boxes located on the short side of the MiniMax Module.

The MiniMax Module will be designed for incoming power supplies which are compatible with the rest of the platform. The standard design is based on IEC (International Electro-technical Commission) standard, however NEC standards (National Electric Code) can also be adopted.



MiniMax Module System

Piping

The MiniMax Module has all necessary piping systems required for the operation. These are;

- Water Heater (35 litres capacity).
- Cold and hot potable water system.
- Black and grey sewage systems (combined system).
- Portable fire extinguishers.

The quality and standard of the selected materials is in accordance with normal offshore standards and regulations.

Tie-in Points

The MiniMax Module has all media tie-in points at one short side of the module.

Weight

Our stressed skin design will provide a robust but very light steel structure compared to a conventional steel fabrication method. Each module weighs less than 10 metric tonnes.

Regulations

The MiniMax Module is designed and fabricated in accordance with following rules and regulations;

- SOLAS
- MODU/IMO code
- DNV 2.7-1
- ILO

The 1-man Cabin fulfils the requirements of NORSOK C-001, 7.2.1 Cabins.



MiniMax Module System



“... another MiniMax delivery from Apply Leirvik Emtunga.”

Apply Leirvik Emtunga AB

Apply Leirvik Emtunga AB is the fastest steel Living Quarters supplier in the world. Emtunga, now part of the APPLY group, has delivered offshore Living Quarters since 1974. The company site is located in Vara, Sweden.