

This is
MORE

modular operating room evolution



MED | Health Technologies
*Manufacturing
Engineering
Development*

Modular Operating Revolution



MOR[®] is the more advanced evolution of the mobile operating theatre: the customer can choose the dimensions according to his needs. MOR[®] is delivered "really and fully accomplished". Design, positioning, transport, assembling, rigging, and infrastructure fitting are all adaptable, with results unique and correspondent to the client's expectations. MOR[®] is suitable for short-term temporary needs (in modernization or natural disasters) or medium/long-term temporary needs (lack of appropriate specialist departments). MOR[®] can be compounded out of different parts: operating theatre, sterilization unit, intensive care, delivery room, imaging, technological support unit, etc.: it is a modular composition.

room evolution



M.O.R. is MORE

MORE'S PLUS & BENEFITS



MODULARITY

Pre-fabricated, modular, structure, transport friendly

COMFORT

The best comfort and ergonomics in the interiors, thanks to the dimensions (namely the height) absolutely comparable to those of the traditional facilities

ASEPTICITY STANDARDS

Maximum hygiene and safety warranted by the special care in designing and compounding the equipment

TESTED PLANTS

On delivery the plants are already finished inside each module, and have passed the final test in the factory

CUSTOMIZABLE SYSTEMS

Each component is standardized on catalogue, but the whole system can be customized upon request

VARIETY OF EXTERNAL FITTING

The external fitting may differ in aspect and performances (acoustic absorption, thermic isolation, external facing in metal, wood, brickwork, etc.)

AUTONOMOUS PLANTS

The plants can be either autonomous or connected to existent services (e.g. hot/cold water for both use and heating/cooling, medical gases, electrogen and/or ups units, etc.)

RELIABLE TIMING

The implementation times are known in each phase: infrastructure, assembling, connecting, testing

KNOWN COSTS

The planned costs are always confirmed

NO URBANISTIC CONSTRAINTS

MORE can be placed even where ordinary buildings are not allowed

RE-UTILIZABLE

Each modular element can be re-utilized and/or placed elsewhere in the system

EXTENSIBILITY

One can increase the number and composition of modules even later on, if need arises

ANTISISMIC

As a stand-alone assembly, this system is intrinsically antisismic. On request, additional anti-sismic installations and devices can be supplied

SIMPLICITY

The modules are easy to install, connect and test

ISO MODULES

The modules observe the ISO dimensions or fractions, hence they can be transported by ordinary means (no need of exceptional transport)

INTEGRATED PROJECT

MORE can be fitted and integrated in existing floor plan

MAINTENANCE AND ASSISTANCE

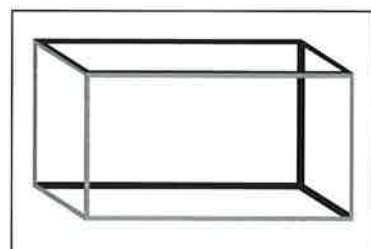
One can rely on a unique referral entity for the whole system (modules, connections and fittings).

MORE

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The MORE^e modules are transferred with not exceptional but special transport: costs are contained and reduced delivery times



Measures of the ISO High Cube module.

Approximate dimensions:
A: 6058 mm
B: 2438 mm
C: 3300 mm



A view of MORE^e structure on anti-seismic dampers and guides (optional)



Assembling MORE^e in Med

TRANSPORT, LOGISTICS, MOUNTING

TRANSPORT COSTS

MORE^e reduces the transport costs to a minimum because it is constituted by ISO modules (20 maxi height), which are not classified as exceptional transport

INSTALLATION TIMING

The times of installation are exceptionally short compared with the traditional buildings

EMERGENCY

Speedy installation plus safety of structures and assembly allow to perfectly cope with the most critical emergencies

VOLUMETRY

With appropriate support infrastructures, MORE^e can be placed in settings where it might prove impossible to build and/or to obtain the wanted authorizations

ASEPTICITY STANDARDS

There is no fracture line between floor, walls and ceiling. The air is sterilized at the highest standards

PLANTS HVAC

high quality air standards ISO5 or ISO7 according to ISO14644 Clean Rooms

MODULARITY: INFINITE COMBINATIONS

Modularity, besides being the logic of MORE^e construction, to minimize times and costs, it is also the logic of usage, to create structures with operational assembled spaces that adhere precisely to the needs. Some combinations:



Operating room	Preparation and awakening	Operating Room
Operating room	Preparation and awakening	Delivery room
Operating room	Substerilization	Intensive care
Operating room	Preparation	Central of sterilization
Emergency room	Reporting	Isolated place/observation
Dialysis	Outpatients' department	Dentist's surgery
		Eye specialist's surgery
Analysis laboratory	Reporting-acceptance	Diagnostic imaging



MORE^e assembling outside a hospital structure

FACING

On its external surface, MORE^e can be fitted with architectural panels (like powder-stained Alucobond or steel AISI 304). The internal surfaces may adopt different materials and techniques, up to the highest standard represented by **thermofitted Corian®**.



Prefabricated walls painted stainless steel



Prefabricated walls thermoformed Solid Surface

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RIGGING AND EQUIPMENT

The rigging and equipment of MORE^e can be customized. The standard model comprises:

- LED Technology operatory lamp
- One side, two branches suspended surgical element: the second branch is motorized, taxiing tandem (two sides), two branches, anaesthetist unit: one side for infusion pumps and one side for ventilation
- Wall fitted technological panel with electric plugs, medical gases, time and chronograph (seconds) display, negativoscopy
- Technical secondary panel with electric plugs and medical gases
- Air inputing and filtering plant (ceiling with absolute laminar flux), AISI 304
- Covered, cleanable, air output devices, AISI 304
- Control board
- Automatic sliding airtight doors
- Self sustaining walls with stained steel panels
- Ceiling covering steel panels, AISI 304
- Floor of conductive resin
- Surgeon wash-stand in thermoplastic Corian®
- Bed support with suspended arms for patient preparation and waking up
- Dark Light IP65 lamps over the whole structure (even upwards))
- HVAC control system
- UTA of AISI 304 with completely disinfected internal surfaces
- Three separated climatization zones (two operating rooms + preparation/waking up room)
- Fire detecting plant with double sensors at counter-ceiling and in the air channel
- Data transmission plant
- Electrical boards separated in each operating room
- Approved medical gases plants, equipped with O₂, 4bar AC, 8bar AC, N₂O, CO₂, Vacuum, anesthetic gases aspiration



> Special electric plants

< Air

Medical gases
v



PLANTS

MORE^e is equipped with standard plants (electrical, mechanical, and other), i.e.: the same plants usually found in the traditional buildings. In addition, MORE^e is predisposed to be cabled with the modern systems of "highly integrated digitalized operating theatres".

The plants for electricity, air conditioning, and distribution of medical gases are placed in the counter-ceiling, and come down along the walls. The technological control panels (Chiller, Heating, UTA, Electrogenic units, UPS, and medical gases) can be placed in different positions, either outside or can be grouped into one or more ISO20 modules, as preferred.

AIR

The AC pipes are placed within the frame lying above the modules. Filters, channels, coating, and fittings are treated with the purpose of maximizing the level of hygiene. The air can be changed in a range of 15 to 150 volumes per hour.

The units for capturing, treating, pumping and aspirating the air are placed outside.

Post-heating occurs peripheral because it is integrated with the flow regulating devices (to be connected with the hydraulic plant).

MEDICAL GASES

All the pipes (made of copper, to warrant both the safety and the endurance, mechanical and thermic, required in a modular and mobile, structure) are placed within the coatings and/or the counter-ceiling, with panels for sector valves, pressure control valves, and area blocking system. The plant distributes O₂, Air 8, N₂O, CO₂, vacuum to aspirate fluids and biological matter, aspiration of medical gases.

Those services may be delivered in different locations, as preferred.

At the internal wall of the operating theatre are placed two emergency panels with plugs for medical gases, electricity and data recording, diafanoscopy, clock and chronometer.

The gas plugs can be supplied according to the wanted international standards (UNI, AFNOR etc.)

SPECIAL ELECTRIC PLANTS

The electrical plants, both for power and lighting, are respecting the more stringent regulations, including transformers of insulation with isoltester, equipotential nodes connecting system, absolute warranty of power erogation and safety (electrogenic unit and UPS).

The special plants are designed with the aim of offering maximum comfort, adjustability, communication and safety to the whole structure. With the same aim are designed the HVAC (Heating Ventilation Air Conditioning) plants, fire detectors, alarms, medical gases monitoring, data transmission.

MOR^e is a silent revolution
from afar, as only
experience can do.



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