

For modular mobile systems

3-in-1 container

The 3-in-1 containers are working in two modes:

- Transport mode
- Operating mode

Transport mode

In transport mode the container is folded so it has the outer dimensions of an ISO 1CC container, 20ft length, 8ft width and 8,6ft height. The container has got 8 corners according to ISO 1161 and ISO 668. This makes it possible to transport the container with all common means of transportation of container. Forklift pockets are foreseen to handle the container with fork lift trucks. All dimensions are in accordance with ISO 1496.



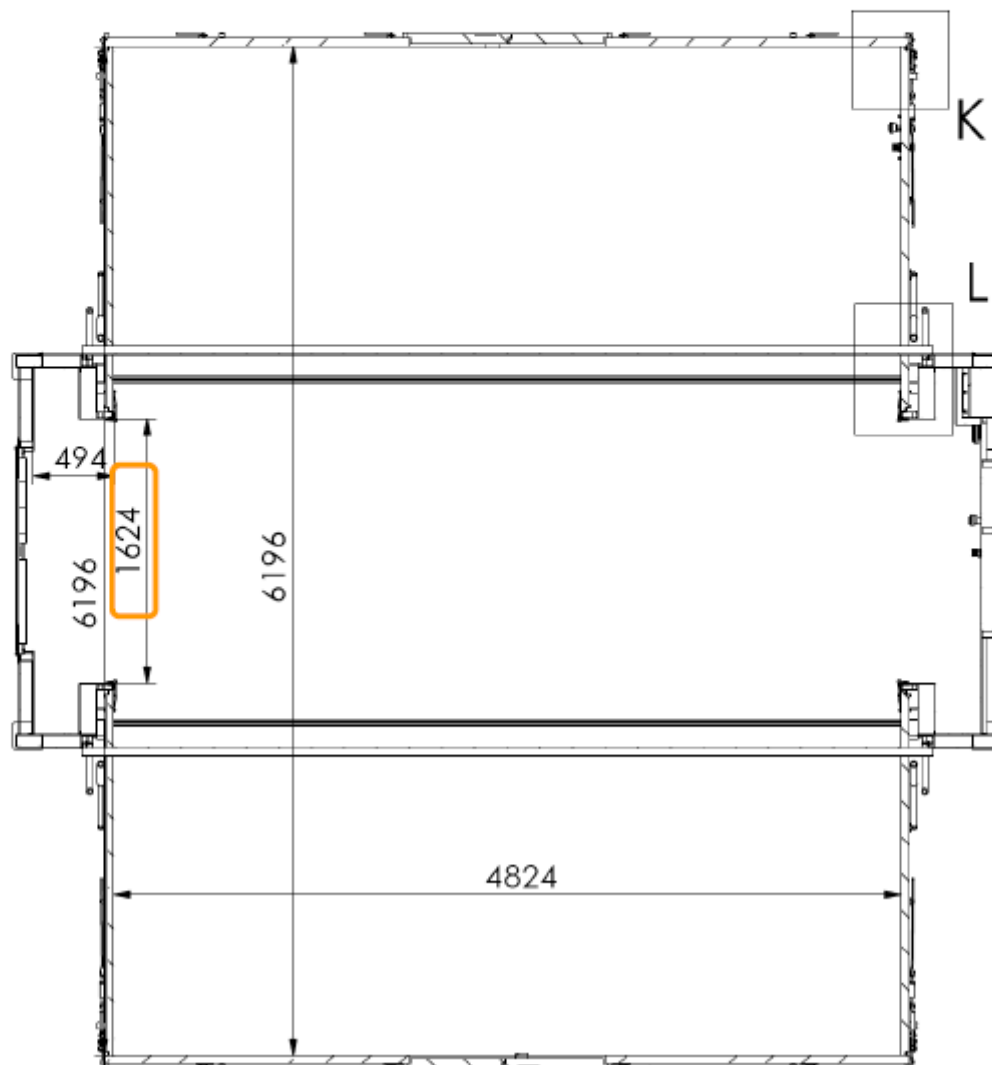
A minimum width of 1600mm is reached between inner wall elements at total length. All expansion elements are to be folded away. That means that the floor in transport mode is plain and has no steps to the expansion parts of the container. Heavy equipment stored in the middle of the container in transport mode can easily be pulled or pushed to the expansion area in operating mode without lifting.

Internal space in transport mode is maximized to transport all equipment in the container to reduce physical strain of personnel and to shorten build up time.

Storage volume is about 12m³

Storage capacity is about 8.400 kg (depending on fixed equipment)

All dimensions approximately depending on customer's specification:



Operation mode

In operation mode the 3-in-1 container is folded to its maximum dimensions. At first the roof of the extensions braces, supported by gas springs. Then the floor of the extension is opened and pulled down. Gas springs lower the weight to be held by personnel to a minimum. Then the side wall element is pulled out and adjusted. The last step is to swing out the frontal wall elements. After adjusting all elements the container is ready in operation mode.

In operation mode internal floor space increases to more than 32m.

The roof of the extensions is slightly beveled to drain off the rain. The angle is about 1 degree to the distal end of the container. The roof of the expansions offer projecting stands on all sides to make rain not directly reaching windows.



Changing from transport mode to operation mode

We like to show you the unfolding of the container with a few pictures taken on our site. The container is loaded onto a trailer.



Things to know

The container possesses an unrestricted CSC approval. It can be stacked 9 high.

The whole container is made in Germany.

Windows are made of insulation glass.

At least one door wing of each entrance is outfitted with a window.

Windows in outer walls (in transport mode) are protected by steel hatches.

There are one intake and one outtake for a mobile external air condition unit like a Dantherm AC-M 7 or a Zhendre CTZ6H55. The A/C-system runs in recirculated-air operation.

Additional ventilators are used for fresh air intake. In negative pressure mode ventilators are used for air outtake via filter elements.

Wall element material

To create stiff walls being able to convey forces and bending moments caused by equipment and personnel situated in the extensions of the container uses several composite materials. Depending on loads and breakouts caused by hatches and windows composites of different materials are used and stiffened by inlays of Aluminum or stainless steel. Sandwich element surfaces are made of steel inside and outside. Total sandwich thickness is app. 50mm.

Walls are coated in RAL colors according to customers' requirements. Color needs to be specified. As an option multi color coating can be ordered. Customer writing and emblems can be ordered optionally as label.

We strongly recommend bright colors for hot areas like sand color or white.

COATING and Conservation

Containers are sandblasted, coated with primer and then coated in RAL colors. Interior surfaces are made of coated steel. Color is standard RAL (for example white / light grey). Hollow corps are anti corrosion protected. Closed profiles are avoided whenever possible to avoid water standing in them and humidity being not able to vanish into atmosphere. Wooden parts of the floors of the container are protected against insects and molding by coating and using standard commercial vehicle wood composites already tested and approved.

All coatings and corrosion protections are high quality products and carried out under control of our quality management. Suppliers of raw material and components are subjected to supervision of our quality management.

Interior

The interior outfitting includes:

- Illumination with TRILUX series 333 type lamps (on the extensions with magnets)
- Electrical installation
- Air conditioning intake adapter and textile air hose of 5m for cold air distribution
- mounted with magnets to the ceiling. Hose leads lengthwise.
- Water supply connectors on all small extension walls
- Water disposal connectors on all small extension walls
- Basic electric installation
- DIN-medical profiles in extensions
- Central roof mounted supply profile for electrical power and gas supply mounted in
- the parent container
- Integrated base plate for operation lamps in the all containers for DREHTAINER
- modified Dr. Mach operation lamps (other types if defined by customer)
- Covered fixation rails in roof and floor for material fixation

Illumination

There are 8 fluorescent tubes installed to give sufficient light to all areas of the container. Tubes can be switched from the entrance area.

4 lamps are fixed within the parent container, 4 can be mounted to the extension roofs by magnets and connected to the central power supply profile.

Basic electrical installation

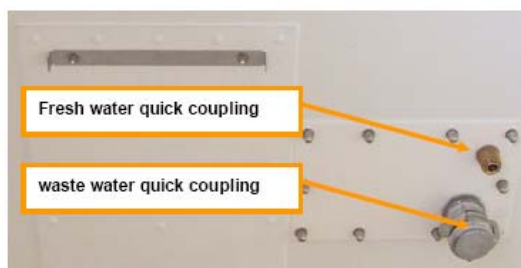
The basic electrical installation consists of:

- ✓ External connection panel on the frontal element of the parent container
- ✓ External connection panel cover
- ✓ Inlet CEE 380/400V 3p 32A type
- ✓ Fuse box
- ✓ Junction box
- ✓ Cables exposed mounted within cable duct
- ✓ Cable ducts to parent container roof (for illumination)
- ✓ Equipotential bonding of all metal elements to ground of external grid
- ✓ 8 x app. 50W Tube lights in parent container
- ✓ 4 x electrical heater on the frontal wall elements
- ✓ 6 x outlet 240V exposed outlets in niches of parent container
- ✓ 4 x further outlets on the central power supply profile

Water supply and disposal

Water supply and disposal connectors are positioned to all 4 corners on the extensions. The washing table can be connected to these elements via a hose package with quick couplings. Water supply has to be established externally.

Interior view:



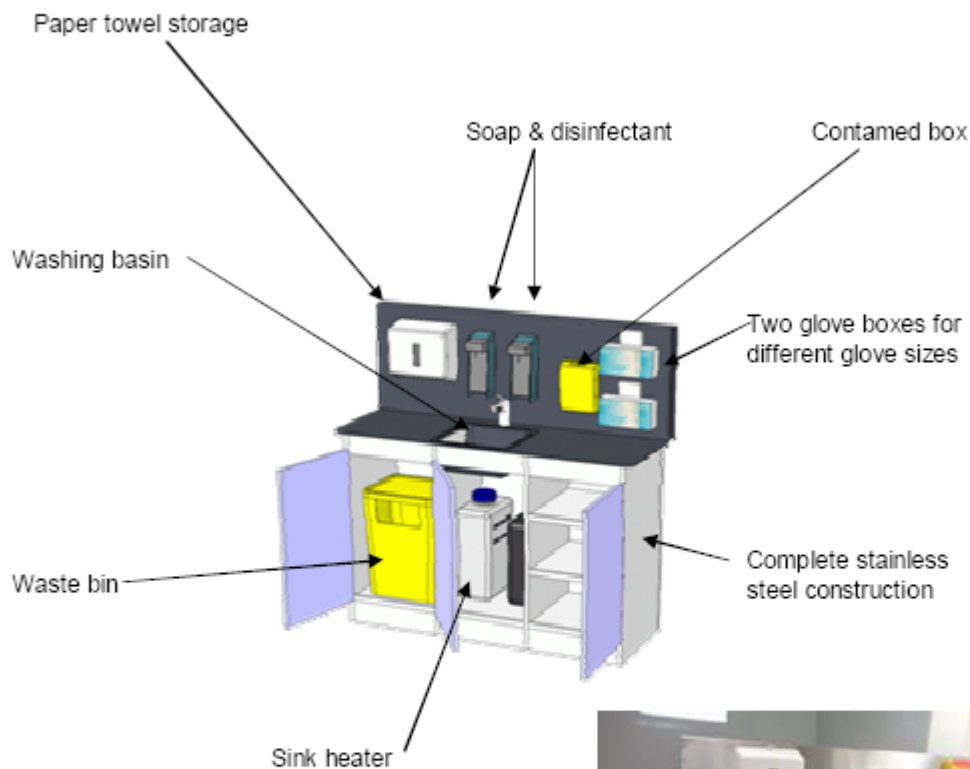
Exterior view:



Sanitation

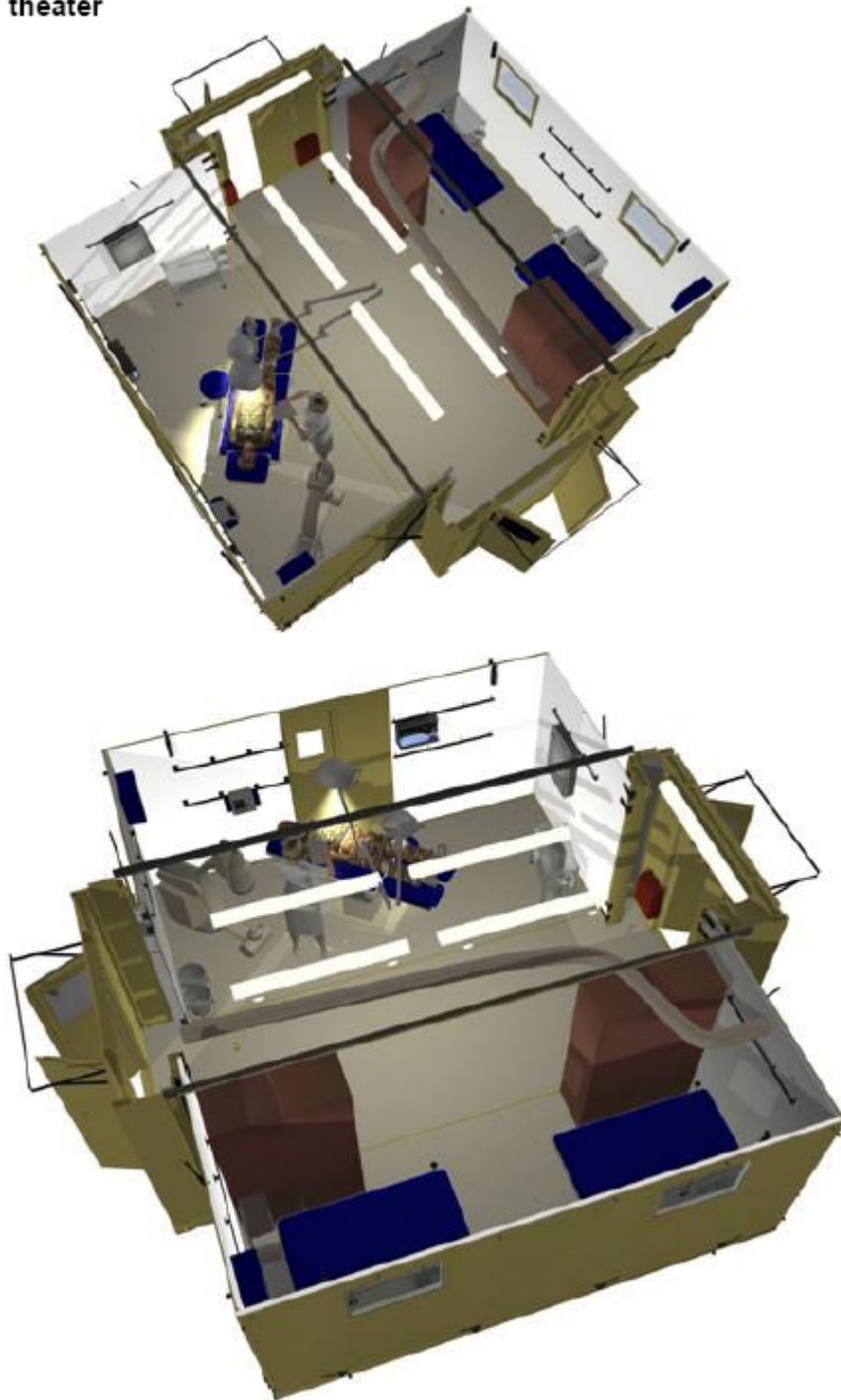
The washing table is a complete hygienic module of stainless steel. It is Totally disinfect able and is designed for use in first aid stations, emergency rooms and medical doctor stations. It can be supported by external water supply. A sink heater enables hot water supply. The module combines a water basin with a water tap activated by a sensor within the tap, dispenser for soap and disinfectant, holder for medical glove boxes, "contaminated" boxes for syringes and other contaminated or sharp disposals, waste bin and storage capacity for materials.

The table can be adapted to the water distribution system of the container and to the electrical system.



Interior concepts for this project

Operation theater



Intensive care unit



