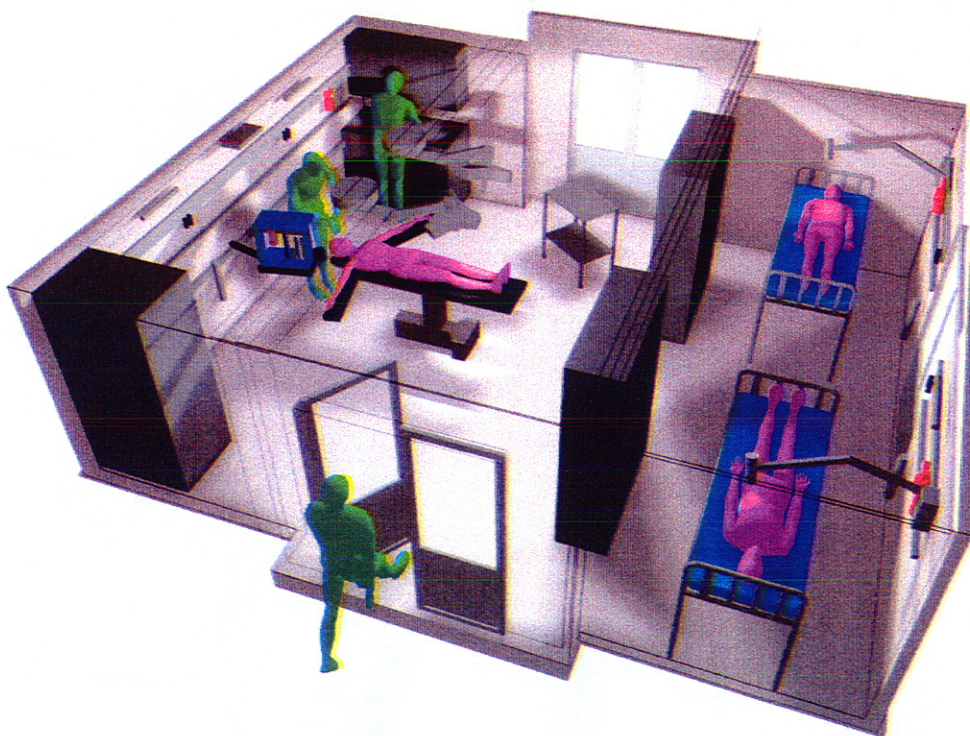


Technical specifications for NorBase Operating Theatre



Technical specifications for expandable aluminium container

NB: Our product is subject to continuous development and our company reserves the right to change specifications in this respect without further notice.

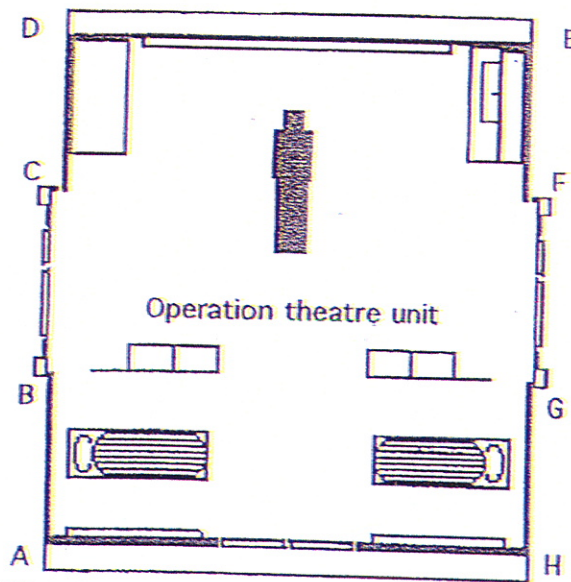
General:

The expandable container is transported as a standard ISO 20' container. Medical equipment for the unit can be transported in the container, but the unit is not intended for gross freight purposes. Cabinets and integrated infrastructure are fixed inside.

The expandable operating theatre is a field tested complete functional unit. Only power (220V, 5-15kW) and water (best available, preferably clear water) must be connected.

Placed on the ground the container is expanded by 4 persons without additional tools. Expansion is to triple size.

As aids for transportation on truck and for leveling special jacks may be mounted at the comers of the container.



Construction:

Centre part is in fully welded aluminium plate construction with integrated ISO container comers and channels for fork lifting.

Sides convertible to floors by swing-levering are in aluminium square tube frame construction with linoleum covered floor made from insulating foam core / aluminium sandwich, mounted on sliding hinges and secured by container type swivel locks during transportation.

Expansion parts (like reversed drawers) on leverable wheels are from aluminium profiles covered by aluminium plates fixed by closed rivets.

Door openings relating to patient transfer lines are double doors with opening to 1,35m (width) x 1,95m (height).

Insulation:

Walls ceiling and floor: K-value = 0,45 equal to temperate climate house. Doors have reduced isolation. All insulating materials are made from non-flammable foam core or mineral wool. For arctic climates a sun screen (like camouflage net) is recommended.

Medical gases and vacuum:

N20 from cylinder (standard Draeger (German) to read or pinn index) through reduction valve (regulator) with distribution through flexible reinforced PVC hose in nylon channels. Users' connection points in aluminum installation panels with ISOAGA fast coupling.

Oxygen is as standard delivered from cylinder and regulated and distributed as N20. An optional oxygen generator/concentrator (95% purity, 12litres/minute) 4 bar, 40 liters reservoir) may be installed and will then supply oxygen for IOP-table and 2-4 recovery beds, as well as pressurized air for air powered surgical tools. An optional oil less air compressor may be supplied (not necessary, if an oxygen generator can be installed).

Vacuum is generated by oil less pump and distributed as gasses.

Infrastructural facilities**Air conditioning:**

Standard 5,3kW air conditioner (optional 8kW) for roiling of outside air or -. recycled air - special easy-to-clean design. Distribution through air hose and cotton airbags acting as fine filter (washable).

Water and drain:

Water pressurize (hydrophor) with 112m suction capability. Pressure adjustable 1-3 bar.

Filtering through prefilter, micro filter and carbon filter followed by irradiation from UV -burner. 'This system produces close to sterile water, but will not remove poisons nor heavy metals from polluted water. If only surface or river water with heavy particle pollution can be supplied an optional filter system with self cleaning back-wash technology may be installed.

Filter lifetime = 3-6 months, UV -bulb lifetime = 8-12 months.

On-line water heater, 2kW, 20 liters.

Scrub arrangement with elbow-operated club water taps.

Large sink for scrubbing and instrument washing.

Electrical automatic drain pump.

Insulated and frost secured water and drain hoses may be supplied for cold weather conditions.

Electrical system:

All installed components are ground wired to container. Container must be ground wired by ground plug ("spear").

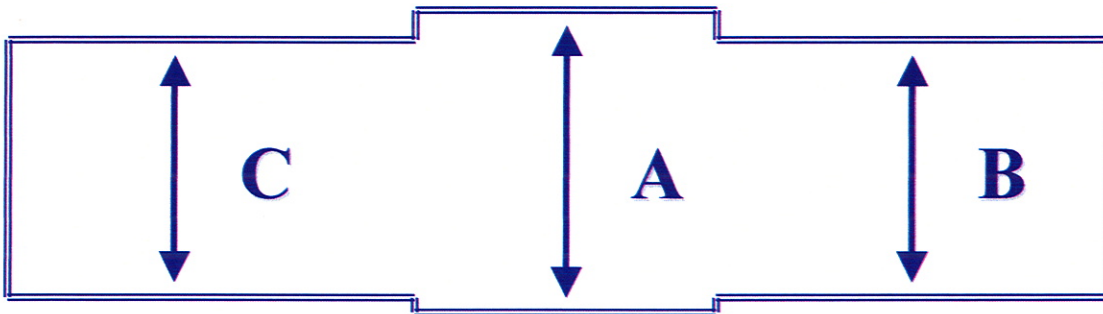
Installation panels have separate channels for gasses and electrical wires.

Internal sockets according to German standard (general for continental Europe).

External sockets/plugs are CEE type.

Fuse board with automatic fuses and High Frequency Induction Contactor.

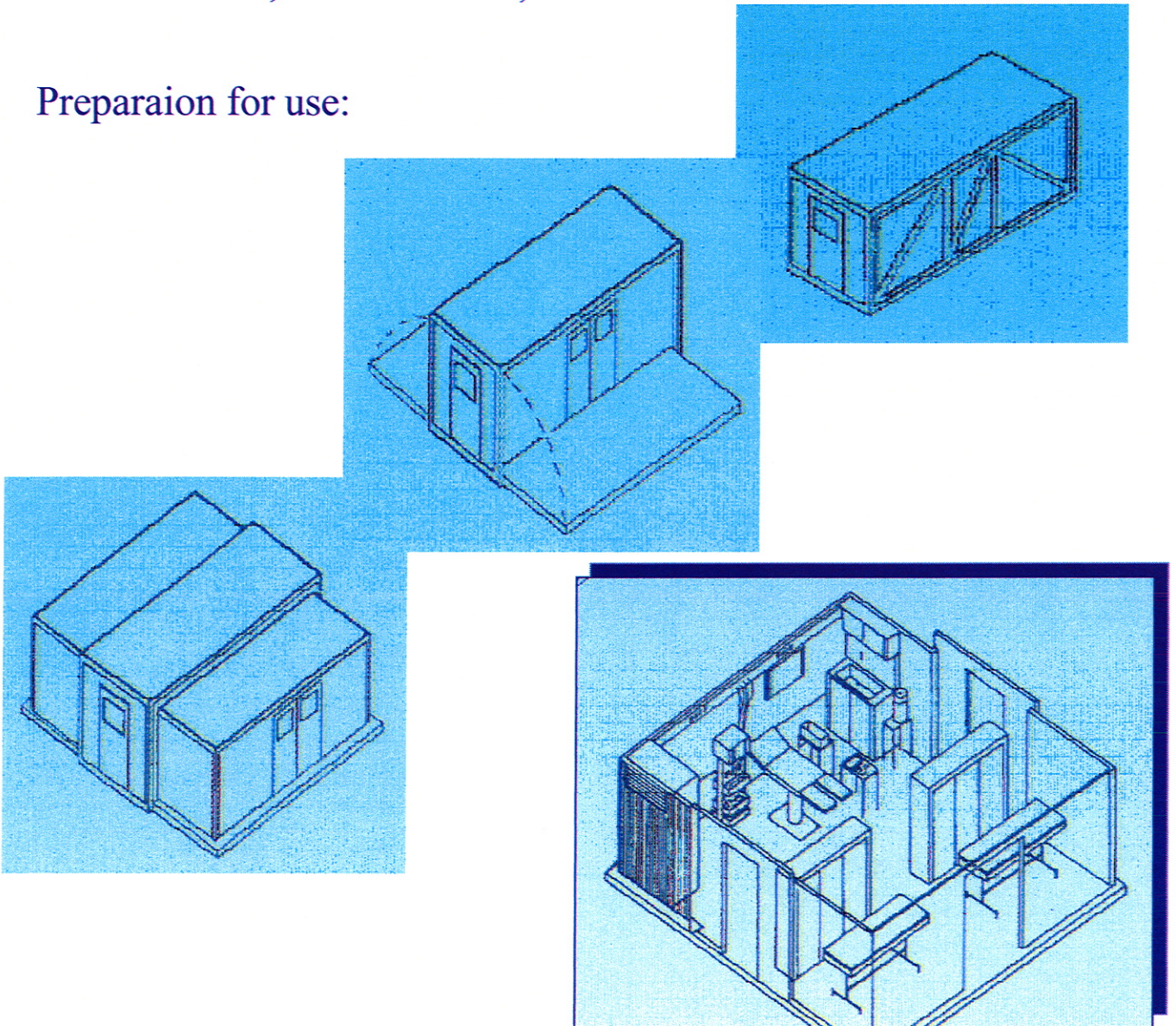
Interior dimensions:



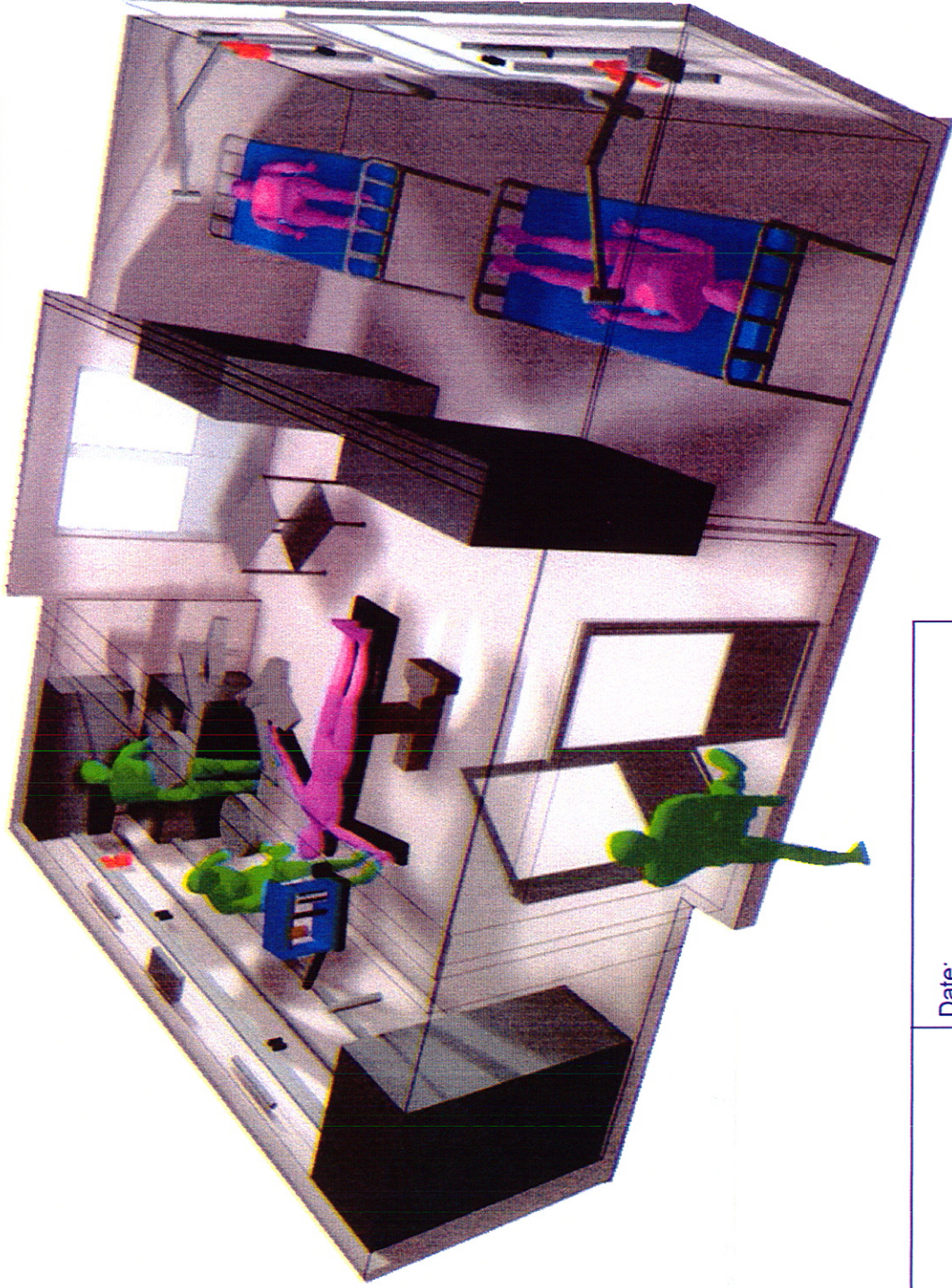
Section through expanded unit:

A = 2202 mm, B = 2102 mm, C = 2002 mm.

Preparaion for use:



OP Theatre with two recovery stations



Nato Nr.: N-3162	Date:
Customer:	Project No. Tech.:
Project: Mobile Hospital	Project manager: Jan Karlisen

Liste # 02-01-3-A/L0

OPERATING ROOM

NorBase

Pos.	Equipment Name	Art. No.	Manufacturer	Cat./Ref.	Country of Origin	No.	Pcs.	Net Weight	Gross Weight	Volume	Consume	NATO Stock No.	Container No.	Price	Total Price
1	Expandable module, both sides aluminium	9510310	Normeca / Baatservice		Norway	1			6000	"31"	0			0	0
2	Isolation in floor, walls and roof		Rockwool		Norway	1		Incl.		Incl.	0			0	
3	PVC carpet on floor, antistatic		DWL		Germany	1		Incl.		Incl.	0			0	
4	Door, double with hydraulic locker		AP Fasader		Denmark	3		Incl.		Incl.	0			0	
5	Panels (type bathroom) walls and roof		Fibo Trespo		Norway	1		Incl.		Incl.	0			0	
6	Basic installations: electric, water, gas etc.		Sonnico Installasjon		Norway	1		Incl.		Incl.	0			0	
7	Air dryer		Vestfrost		Denmark	1		Incl.		Incl.	1000			0	
8	Airconditioning/ heater w/ remote control		Filtrator		Sweden	1		Incl.		Incl.	3000			0	
9	Heating in floor		Sonnico Installasjon		Norway	3		Incl.		Incl.	2400			0	
10	Light panels, walls		Sonnico Installasjon		Norway	4		Incl.		Incl.	250			0	
11	Lights, roof		Sonnico Installasjon		Norway	6		Incl.		Incl.	250			0	
12	Water purification system & heater		Grundfors		Denmark	1		Incl.		Incl.	2200			0	
13	Cabinetsection, for technical installations		Baatservice		Norway	1		Incl.		Incl.	0			0	
14	Cabinetsection, o/u for technical installations,		Baatservice		Norway	1		Incl.		Incl.	0			0	
15	with sink and table		*		Norway	*		Incl.		Incl.	0			0	
16	Equipment cabinets		HMI/Baatservice		Norway	2		Incl.		Incl.	0			0	
17	Sewage pump		Grundfors		Denmark	*		Incl.		Incl.	0			0	
18	Soap dispenser		Sterisol		Norway	1		Incl.		Incl.	1000			0	
19	Terminals (4.15m) for 2xO2, 2xN2O		Dameca		Denmark	1		Incl.		Incl.	0			0	
20	4xmedical air, 1.2x220 VAC		*		Denmark	*		Incl.		Incl.	0			0	
21	Terminals (1.4m) for 1xO2,		Dameca		Denmark	2		Incl.		Incl.	0			0	
22	2xmedical air, 6x220 VAC		*		Denmark	*		Incl.		Incl.	0			0	
23	Equipment rails, wallmounted, long=4,15 m		Dameca		Denmark	1		Incl.		Incl.	0			0	
24	Equipment rails, wallmounted, short=1,4m		Dameca		Denmark	2		Incl.		Incl.	0			0	
25	Connection panel for ISDN, data, Intercom,		Sonnico Installasjon		Norway	1		Incl.		Incl.	0			0	
26	Operating lamp, wall mounted		Luxo		Norway	1		Incl.		Incl.	0			0	
27	Examination lamp, rails mounted		Luxo		Norway	2		Incl.		Incl.	100			0	
28	telephone and low current, outside/ inside		Sonnico Installasjon		Norway	1		Incl.		Incl.	0			0	
29	Pully base for sides/floor		Båtservice		Norway	2		Incl.		Incl.	0			0	
30	Tent Canvas for roof		Båtservice		Norway	1		Incl.		Incl.	0			0	
31	Fire extinguisher	Noha T6	Noha Brannteknikk		Norway	2		Incl.		Incl.	0			0	
32	Cabinet with emergency knife		Noha Brannteknikk		Norway	2		Incl.		Incl.	0			0	
33	Smoke alarm, ceilingmounted		*		Norway	1		Incl.		Incl.	0			0	
34	Flash light, wallmounted		Braun		Germany	1		Incl.		Incl.	0			0	
35	Manual levelling jacks, set of 4		Heteck		Germany	1		Incl.		Incl.	0			0	
36	Support plates, steel, 1x1m, 5 m.m.		Baatservice		Germany	1		Incl.		Incl.	0			0	

37	Hook-tackle for lowering/rising of walls	HMI/Baatservice	Norway	2	Incl.	Incl.	0
38	Hose for water, isolated	Upnor Suomi	Finland	25	Incl.	Incl.	0
39	Hose for waste water, isolated	Upnor Suomi	Finland	25	Incl.	Incl.	0
40	Cable for power 220V - 3 fas	Satema	Norway	25	Incl.	Incl.	0
Total					6100	0	10200