AGITO MEDICAL

Site Planning Guide

Siemens Aera 1.5T

MR40 - Mobile MRI Trailer

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01 Introduction

This site planning guide shortly presents the mobile unit and describes preparations needed to be made by the client, in order to receive and connect the mobile unit.

The site must be prepared with respect to this site planning guide in order to ensure that the mobile unit can function properly. This site planning guide exclusively describes the mobile unit. Please refer to the system data sheet and OEM system manual for a describtion of the installed system.

02 Mobile Unit Specifications

2.1 Dimension and weight

Length	13,55 m
Width during transport	2,55 m
Height	4,00 m
Weight of unit	27.000 kg
Min. area for placement	16,50 x 8,00 m

2.2 RF shielding

The mobile unit is equipped with magnetic shielding. The shielding will keep the magnetic field outside the trailer walls below 0.5 mT. Note the field can be stronger on the roof. This area is marked with safety signs and is restricted area for people with pacemarkers and other magnetic items.

2.3 Access to the mobile unit

The mobile unit can be accessed, via a staircase and patient lift, both located on the front right side of the unit. The back end is also equipped with a door (leading to the back of the magnet), but this is only for service purposes. The patient lift can be used, to enable patient trolley access. The patient lift has a dimension of 120 x 210 cm and a max capacity of 1500 kg. Inside the trailer the magnetic field is higher than 0.5 mT.

2.4 Phone & network

The mobile is equipped with 6 x data lines (RJ45 sockets), where 2 of the lines are dedicated telephone lines. Sockets are available in the operator room for auxiliary communication equipment such as computers, laptops or IP-telephones.

The RJ45 sockets found inside the trailer must be connected to the hospitals network, via the RJ45 connectors/sockets found on the outside of the trailer (belly compartment). Please note: The connection of computers, phones and other communication equipment is the client's responsibility.

03 Environmental Requirements

3.1 Physical requirements

- Area to be provided: 16.50 m x 8.00 m (L x W)
- Large moving/active metal objects – e.g. cars, busses, escaladers, forklifts, trucks, transformers, helicopters, ambulances, elevators etc. should be kept at distance of min. 10 meters from magnet iso-center in order to ensure no disturbance is caused.
- A clearance of at least 2.50 meter is required all around the unit to allow for service work and maintenance and to avoid interference with the magnet's 5-gauss safety line. This must be respected at all times, and is included in above area requirement. Exceptions to the above requirements, can only be approved by an AGITO representative.
- A level (no more than 1% (0.6 degree) tilt and solid surface with a loading capacity of 32,0 tons is necessary.
- Additional reinforcements are required on unstable ground. Suitable reinforcement could be concrete, road surfacing or pavement (bound material).
- Additional space for patient trolley access and staircase must be secured around the unit for optimal access (see drawings).
- If any high voltage electrical installations are found nearby the requested location, this may interfere with magnet field. Further info can be obtained upon request.
- To allow for sufficient airflow a clearance of 1000 mm from the exterior airco and generator grills must be secured.

3.2 Electricity

Power/tension requirements	400V 3-phase, 50 Hz – fuse rated at 200A 3-phase systems with insulated neutral and earth (TN-S - N + PE) Phase 1 - R or L1 Phase 2 - S or L2 Phase 3 - T or L3 Neutral - N Earth - PE
Norm connection plug	Marechal 250A-type plug, 3 phased/ N/E/, 5 poles (female Marechal 250A outlet to be provided by client.)
Voltage variation	+/- 5 %
Frequency (Hz) variation	+/- 0,5%
Distance to the main distributor box of the system	Advised max 15 m
Emergency power stop switch	In scan room, operator room and technical room.
Rotating field of the connection on site of the customer	L1, L2, L3 - rotation

Please note: A stable electric power supply meeting above specifications must be warranted for the whole rental. Cable protective ramps or catenary systems shall be provided by the Client where cables traverses roads or pathways.

3.3 Water

The trailer is equipped with a water tank for supply of the humidifier on board. This can be filled via the filler cap or connected to shore line, via a GK / hose size 19 x 3 mm. Water tank and connection point is located on the right side of the mobile, see position on layout. Please note: The supply with fresh water as well as the disposal of the foul water is in the client's responsibility.

04 Before Delivery

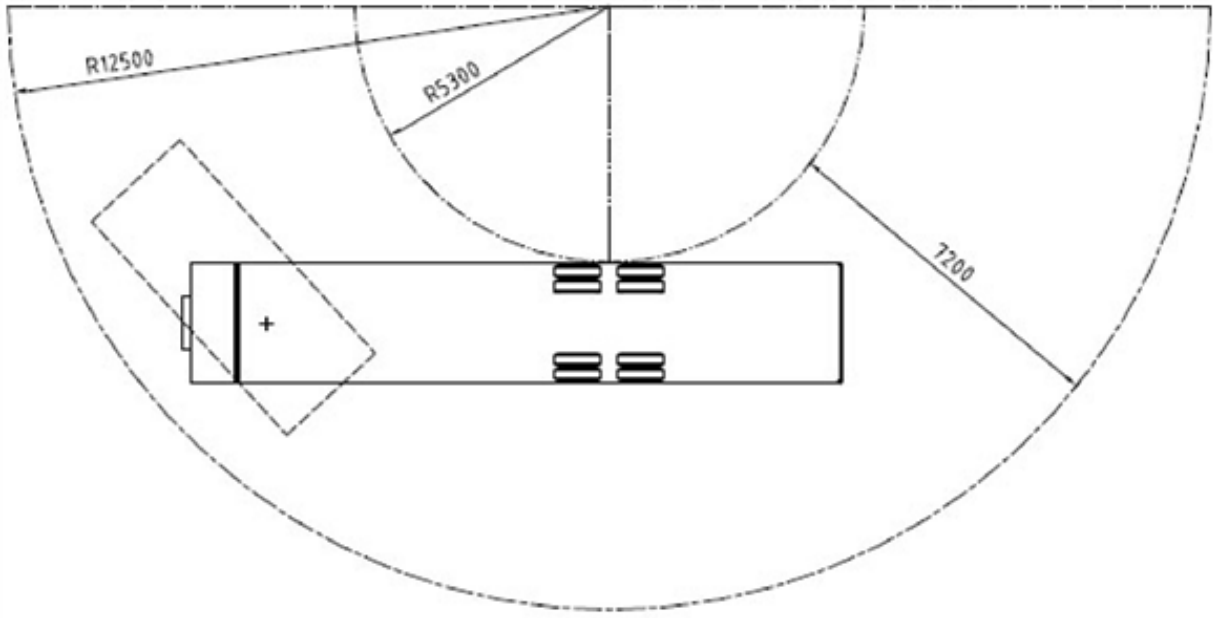
4.1 Preparations of access route

- The route to the installation location has to be trafficable for the tractor and unit with reference to the below “Vehicle access requirements”. An engineer or project manager from AGITO Medical A/S can be consulted on placement and access.
- All obstacles, parked cars, low branches or other potential non-conformities to a failure-free access, are to be removed prior to delivery.
- AGITO Medical will provide a project manager or engineer, for consulting during planning regarding placement.
- If a site visit is requested by the customer, AGITO Medical reserves the right to invoice this expense separately.

Please note: The client is responsible for all necessary preparations of the installation location, the access route, as well as the provision of the required connections.

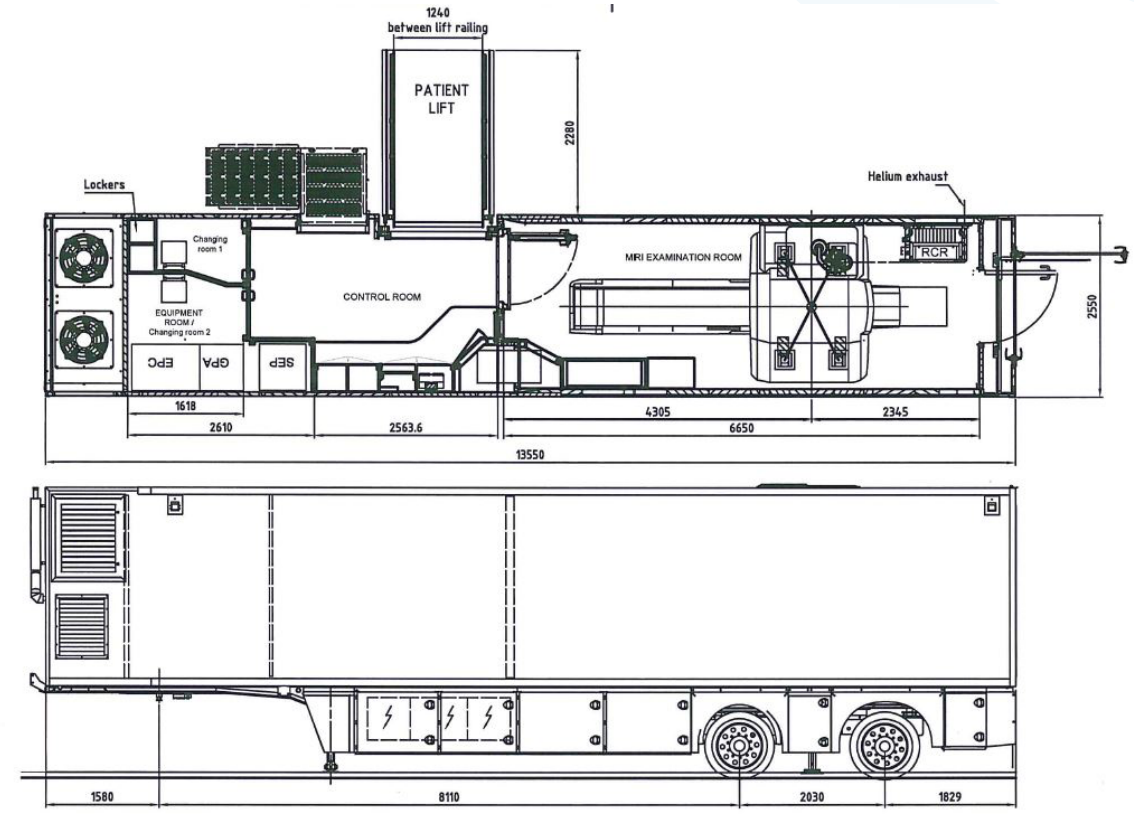
4.2 Vehicle access requirements

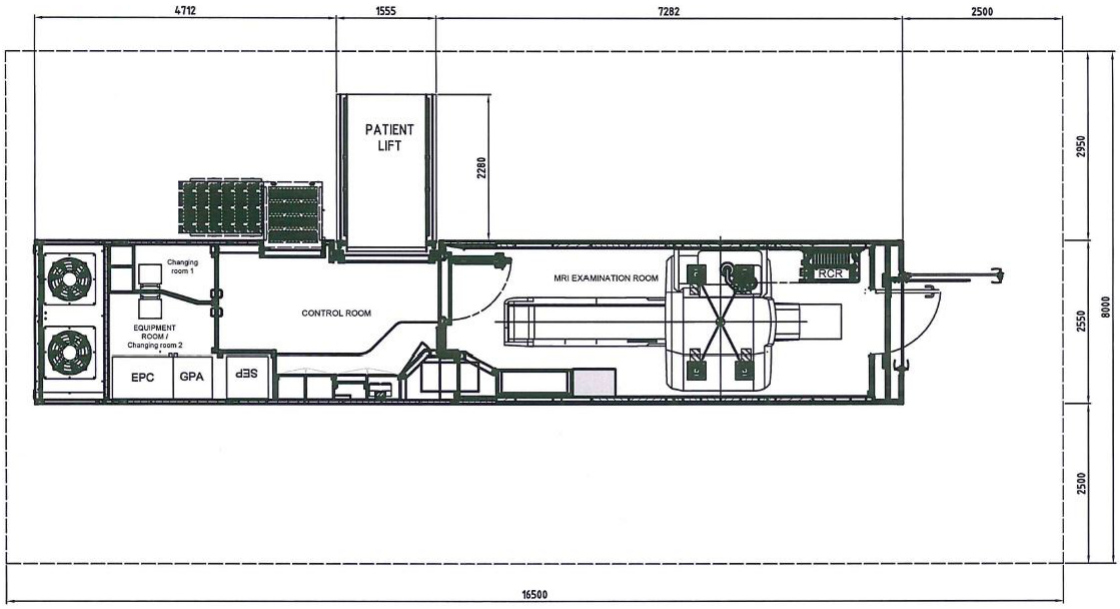
The access way must have a minimum width of 7,2 m. The radius of the turning circle should have an outer radius of 12,5 m. and an inner radius of 5,3 m.



05 Mobile Unit Layouts

5.1 Mobile unit layouts





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