

# AGITO

M E D I C A L

## MR50 - Mobile MRI Solution PHILIPS AMBITION 1.5T

Specifications and Site Planning Guide





# Contents

## 1. Introduction

- 1.1 General Information

## 2. Scanner Specifications

## 3. Unit Specifications

- 3.1 Layout
- 3.2 Dimensions & Weight
- 3.3 Features
- 3.4 Magnetic Shielding
- 3.5 Access & Security

## 4. Site Planning and Delivery

- 4.1 Surface Requirements
- 4.2 Unit Delivery and Support
- 4.3 Electrical Requirements from Customers
- 4.4 Connectivity
- 4.5 Water Supply & Drainage

## 5. Before Delivery

- 5.1 Site Survey Preparations

## 6. 3D Tours

- 6.1 MR50 3D Tour
- 6.2 Other Units

## 7. Search for Your Solution

## 8. Contact Information

# 1. Introduction

AGITO Medicals fleet of Mobile & Relocatable medical units enables healthcare facilities to establish an imaging service, without the usual long waiting time or associated costs. All AGITO units contain diagnostic imaging equipment and give radiographers a comfortable work space as well as a relaxing patient environment .

Currently AGITO Medical is able to provide an expanding number of units & services, which include:

- **MRI**
- **CT**
- **Image Guided Therapy**
- **Support Units**

This Document gives an overview of MR50, a Mobile Unit with PHILIPS Ingenia Ambition 1.5T MRI. It provides the specifications of the installed MRI Equipment, and the details required for the siting and installation of the unit. If you have any specific questions or need further information, please call AGITO on +45 9635 0170.

## 1.1 MR50 General Information

This mobile Rental Solution from AGITO is a 'first of its kind'. It has a 'helium free' PHILIPS Ambition MRI installed, with full 'Ambient' Package and 'In-Bore Experience' which will provide the best possible environment for every type of patient – no matter the clinical demands and challenges. The MRI scanner is packed with software & features to suit every clinical demand. An extensive Coil package means patients will receive the best possible imaging solution, resulting in high Image Quality. 'Compressed Sense' and 'Smart Speed Premium' provides a performance , which is both robust and speedy. The AI DeepLearning Algorithms, alongside upgraded Hardware give higher reconstruction rates, and increased patient throughput.



This rental solution will undoubtedly meet the diverse needs of the modern imaging department with advanced its clinical application software and extended coil suite.

Included are all the required accessories, with staff and patient comfort in mind, all housed inside a very high specification mobile.

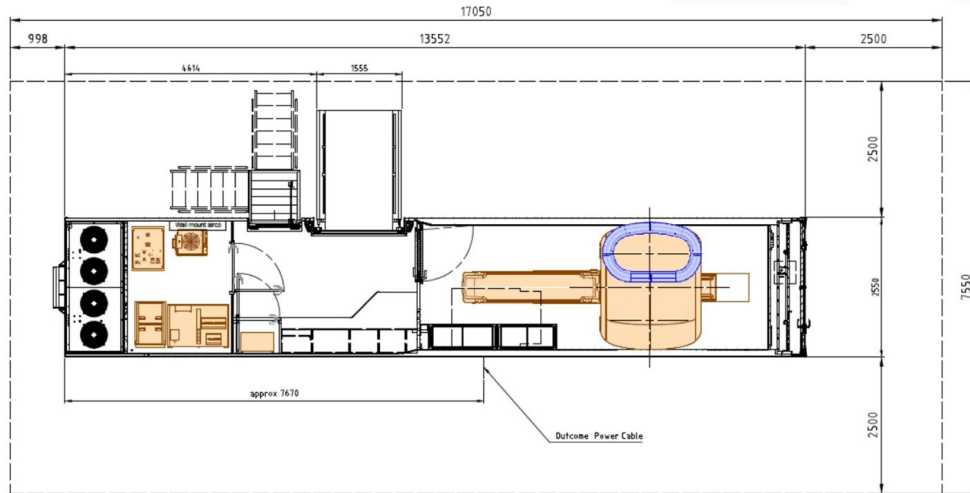
## 2. Scanner Specifications

<b>System ID</b>	MR50	<b>Patient Observation</b>	Colour Camera with display for Patient Monitoring
<b>Type</b>	Trailer	<b>Coils</b>	ds HeadNeck – 20 CH Head-Neck, 52 CH Neuro, ds Head – 15 CH Head, 51 CH Neuro, ds Torso with FlexCoverage Anterior Coil – 32 CH, ds Whole Body Expansion Flexcoverage Anterior Coil – 108 CH, ds Base with FlexCoverage Posterior Coil – 44 CH, ds Flex M (qty2) – 6CH, ds Knee – 16 CH, ds Shoulder – 16CH, ds FootAnkle – 16 CH, ds Hand Wrist – 16CH, ds
<b>Manufacturer &amp; Model</b>	Philips Healthcare Ingenia Ambition X 1.5T	<b>Injector</b>	Medrad MR XPerion
<b>No. of Channels</b>	dStream architecture – Number of channels are determined by the coils, rather than the system	<b>Software Packages</b>	Scantools Pro – generic workflow features Body Pro, Breast Pro, Cardiac Pro, MRA Pro dS PerformanceSuite Plus including; Autovoice, Comfortone, ScanWise Implant, SmartExam, Brain, SmartExam Spine, SmartExam Knee, SmartExam Shoulder, O-MAR specialist, mDIXON FFE Specialist Wholebody Specialist. dS PerformanceSuite Pro including; MultiVane XD, 3D Vane XD mDIXON XD TSE. dS CardiacSuite Pro including; Cardiac Expert Specialist, Cardiac Quant
<b>YOM (Unit)</b>	2024	<b>Software</b>	Diffusion Excellence Pack, Diffusion XD, ZOOM Diffusion, bFFE XD, 3D Spine View, 3D Nerve View, 3D Pelvis View, 3D Breast View, SWI Specialist, Black Blood Imaging, mDixon XD MFFE, 4-D Trak XD, Coronary Acq, SENC, Smart Exam Breast 4D Free Breathing, Compressed Sense, SmartSpeed Upgrade with Recon Hardware, SmartSpeed Essential, Plus IB & Premium – DeepLearning AI algorithm, SmartSpeed Plus IB
<b>Receive Technology</b>	DirectDigital RF		
<b>Software Release</b>	R11.1		
<b>Field Strength</b>	1.5T		
<b>Bore Size</b>	70cm		
<b>Max FOV</b>	55cm		
<b>Gradient Type</b>	Omega HP		
<b>Max Amplitude</b>	Peak amplitude up to 45 mT/m (78mT/m Effective)		
<b>Max Slew Rate</b>	Peak slew rate up to 200 mT/m/ms (246 mT/m/ms effective)		
<b>AMBIENT</b>	MR Plus Package and In-Boer Experience to give unparallelled comfort for patient and staff		
<b>Overall Magnet Length</b>	1.62m		
<b>Table Configuration</b>	Wide Patient Table		
<b>Table Safe Working</b>	250Kg (550lbs)		
<b>Table Scannable Range</b>	215cm		
<b>Patient Positioning</b>	dS Positioning Pack, Comfort Plus Pack		



# 3. Unit Specifications

## 3.1 Layout



Please note: From side walls and back wall is a minimum clearance of 2,5 m required. Otherwise the imaging can be affected by metal objects.

## 3.2 Dimensions & Weight

Type	Trailer
Length of Unit	13.55m
Width of Unit	2.55m
Height	4m
Weight of unit	26.900Kg (26.9T)
Min. area for placement	17.1M x 7.6m - Subject to site

## 3.3 Features

PHILIPS Ambient Package with In-Bore Experience	Wall mounted Patient Comfort 'Virtual Windows' in Scan room
Remote OEM Service Connectivity & OEM Service Contract on all Equipment	Patient Changing Room with lockable door, storage lockers and Patient Alarm
Tri-Zone Air Conditioning	Fire Alarm System – Fully Linkable to Hospital or Facility Alarm
Music System for Scan Room & Control Room	Switchable Privacy Glass to Scan Room
Unit Hydraulic levelling System	CCTV system to monitor the patient entrance

### 3.4 Magnetic Shielding

The MRI Trailer is equipped with magnetic shielding. The shielding will keep the magnetic field outside the trailer walls below 0.5mT. On the roof the magnetic field will be much stronger. Inside the trailer, in the scan room, the magnetic field is much higher than 0.5mT. These areas are marked with the required MRI safety signs, provided by the manufacturer.

### 3.5 Access and Security

The Mobile MRI has 2 points of access available;

- Patient & Staff Access – access via steps to the side of the mobile
- Patient Lift Access – Hydraulic remote-controlled lift for immobile patients

The Patient Access doors are covered by CCTV system for control of entry.

## 4. Site Planning and Delivery

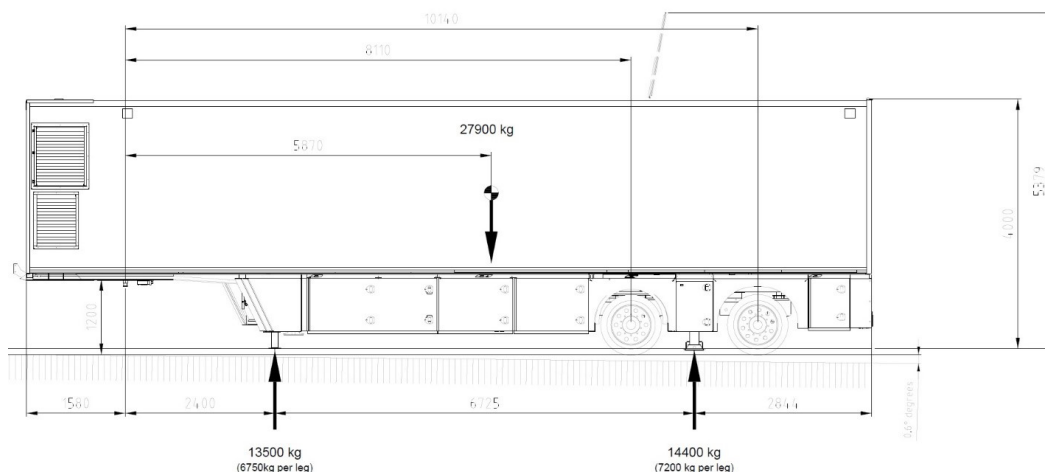
### 4.1 Surface Requirements

The minimum area required for the unit is 17.1m X 7.6m. A clearance of at least 2.5m is required all around the unit so that the unit can be maintained, allow enough space for the Air-conditioning to function, and allow safe use of the patient access doors etc. This clearance allowance should always be respected and is included in the area requirement. Exceptions to the above requirements are possible but can only be approved by an AGITO representative on site survey. Additional space for patient trolley access and ramp/staircase may be required depending on the site layout.

Any high voltage electrical installations close to the requested location may interfere with magnetic field. Further info can be obtained upon request. Large moving/active metal objects – e.g. cars, busses, escalators, forklifts, trucks, 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.

### 4.2 Unit Delivery & Support

Siting of the mobile MRI must be made on a solid surface that is level, with a maximum 50 mm deviation in height per 10m, with a loading capacity of 26,900 Kg (26.9 tons). Under the support legs a nylon support block of 0.4 x 0.4 m must be placed (4 pieces supplied with the trailer).



### 4.3 Electrical Requirements from Customer

A single electrical power source is required for operation of the system, the specifications required are in the table below:

400V  
3 phase  
Phase Rotation – L1, L2, L3 (TN-S)  
50HZ  
Hospital Fuse rating 160A  
Female Marachell DS2 Connector with Dedicated Insulated Neutral & Earth.

**NOTE:** The Marachell connector must not be removed under any circumstances. A stable electric power supply meeting above specifications must be provided by the customer for the whole rental.

The Power Connection must contain a 250 amp Marechal female connector, as shown in the picture below:



Norm connection plug

The hospital is responsible for the provision, installation and maintenance of the requested electricity mains power supply. It is recommended that a residual current device is part of the Power Connection Configuration. (RCD settings 100 ma with 0.5 time delay). Power quality Line Voltage Variation: +/- 5% Max Line Voltage Balance: 2% Between Phases Frequency Variations: +/- 1Hz Line Transients: +2.5%. AGITO can provide a suitable electrical power box, that meets all the required specifications, and a suitable generator supply if required.

### 4.4 Connectivity

The Units Belly Locker Compartment Box houses:

- QTY 4 RJ45 ethernet (CAT 6) connection points. Alongside VISBION CUBE, this allows secure, easy integration to the customers HIS/RIS & PACS systems and allows secure remote support from OEM Service providers.
- 2 telephone sockets (RJ45 type)

### 4.5 Water Supply & Drainage

The trailer is equipped with a water tank for supply of the air humidifier. The water tank can be filled by the filler cap or connected to the shore with a hose.

## 5. Before Delivery

### 5.1 Site Survey & Preparations for Rental Delivery

- An AGITO project manager will be made available for a site survey & consultation prior to rental and unit delivery. They will advise customer on the best possible siting & placement of the unit and access requirements etc. The customer is then responsible for all necessary preparations as advised by the AGITO Project Manager.
- The route to the installation location has to be trafficable for the tractor and vehicle access requirements seen below.
- If additional site visit is requested by the customer, AGITO Medical reserves the right to invoice this expense separately.
- All obstacles, parked cars, low branches or other potential non-conformities to a failure-free access, are to be removed prior to delivery.

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.



## 6. 3D Tours

### 6.1 MR50 - 3D Tour

Do you want to see how it looks inside the mobile MR unit?

Take a 3D tour by scanning the QR code.



#### Maintenance and service

System will be delivered with an OEM service and maintenance contract.

### 6.2 Other Units

Our website offers the opportunity to take a 3D tour of a selection of our additional units, including CT, MRI and Cath Lab units.

By scanning the QR code, you can access the list of available tours and select the ones you would like to explore further.



## 7. Search for Your Solution

At AGITO Medical, your comfort and satisfaction with your rental unit are our top priorities. That's why we've created a dedicated **Support Page** to make it easy for you to get the assistance you need.

Whether you have questions about your rental unit, require access to certificates and manuals, or want to share your valuable feedback with us, you can do so effortlessly entering our Support Page.

If you prefer to speak with a representative directly, you can reach us at our service number:

**+44 1518 082 415.**



### Report an Issue

Getting in touch with us is quick and easy! Our service representatives are ready to help you at all times.



### Digital Wallet

In our Digital Wallet, you can download both manuals and certificates for each of our imaging rental units.



### Customer Feedback

Access our Customer Feedback Portal to help us improve our offerings.

[Click here to get started, and let us take care of your rental needs!](#)

## 8. Contact Information

**Our AGITO Team is ready to assist you**

Mail: [rental@agitomedical.com](mailto:rental@agitomedical.com)

Phone: **+45 96 35 01 70**