MAMMOMAT B.brilliant / Revelation / Inspiration / Fusion

Basic Planning Information

SIEMENS Healthineers

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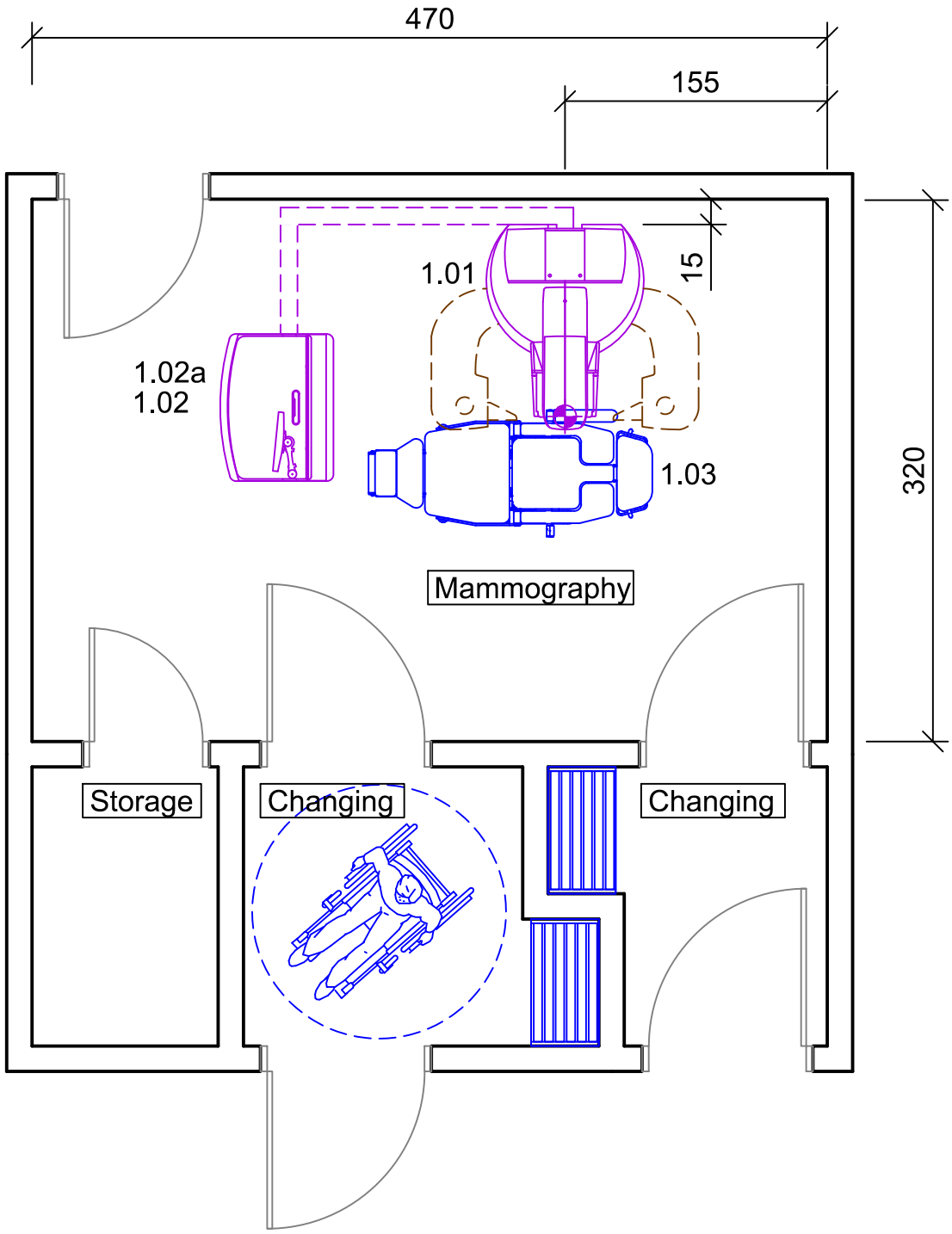
Dimensioning

All installation measurements apply to finished wall/floor/ceiling and are to be checked prior to assembling the unit.

Orientation point = reference point of the Siemens Healthineers unit for planning and installation

Please note: The drawing parts in this document are not to scale!

Planning Example



MAMMOMAT B.brilliant, Revelation, Inspiration, Fusion - Equipment Legend				
		Weight (kg), Heat dissipation to the air (W)		
Pos.	Description	kg	W	Remark
1.01	MammoUnit Stand	350	500	#1
1.02	WH AWS Workstation, control box, monitor	34	230	
1.02a	Control console table with radiation shield	125		
1.03	Stereotaxie chair ak5010 MBS	95		optional
	#1 Stand, X-Ray radiator, generator and digital detector			

Room Dimensioning

Room dimensioning
The indicated room dimensions have to be checked on site. The planning department has to be informed about possible deviations. Otherwise we cannot assume any guarantee for the accurate implementation of the dimensions indicated in the planning documents.

Statics and Transport

Statics
The system has to be installed on a solid surface with sufficient load carrying capacity, such as, e.g. concrete. If the underground, e.g. screed, doesn't have a sufficient bearing load, it must be removed and replaced by a concrete replenishment min. C20/25 If an appropriate substructure is provided on site, the unit may also be mounted on installation floors.

Transport		
	Crate L x W x H in cm	Weight in kg with packaging
Stand	226 x 93 x 155	approx. 550
Radiation shield, Workstation and accessories	210 x 80 x 132	approx. 220 to 300
Detector	90 x 80 x 60	approx. 40
The door must have a final clearance of 125 cm if bed entrance is requested.		

Air-conditioning

MAMMOMAT Revelation / B.brilliant

Environmental conditions		
	Operation	Transport / Storage
Temperature (System)	12 to 35 °C	-20 to 70 °C
Temperature (Detector)	12 to 35 °C	5 to 40 °C
Relative humidity	30 to 75% (non-condensing)	10 to 90 % (non-condensing)
Air pressure	70 to 106 kPa	70 to 106 kPa
Temperature gradient	10 K / h	10 K / h
The detector is calibrated manually in periodic intervals. Based on this calibration, a working range of ± 7° C is available. Optimum image quality outside of this working range without re-calibration is not ensured. ⇒ To ensure constant and optimal image quality, environmental conditions must be maintained absolutely. Avoid direct sunlight!		

MAMMOMAT Fusion

Environmental conditions		
	Operation	Transport / Storage
Temperature (System)	20 to 35 °C	-20 to 70 °C
Temperature (Detector)	20 to 35 °C	-20 to 70 °C
Relative humidity	30 to 75% (non-condensing)	10 to 90 % (non-condensing)
Air pressure	70 to 106 kPa	70 to 106 kPa
Temperature gradient	10 K / h	10 K / h
The detector is calibrated manually in periodic intervals. Based on this calibration, a working range of ± 7° C is available. Optimum image quality outside of this working range without re-calibration is not ensured. ⇒ To ensure constant and optimal image quality, environmental conditions must be maintained absolutely. Avoid direct sunlight!		

MAMMOMAT Inspiration

Environmental conditions		
	Operation	Transport / Storage
Temperature (System)	20 to 35 °C	-20 to 70 °C
Temperature (Detector)	20 to 35 °C	5 to 40 °C
Relative humidity	30 to 75% (non-condensing)	10 to 90 % (non-condensing)
Air pressure	70 to 106 kPa	70 to 106 kPa
Temperature gradient	10 K / h	10 K / h
The detector is calibrated manually in periodic intervals. Based on this calibration, a working range of ± 7° C is available. Optimum image quality outside of this working range without re-calibration is not ensured. ⇒ To ensure constant and optimal image quality, environmental conditions must be maintained absolutely. Avoid direct sunlight!		

Electrical Installation

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Power requirements for MAMMOMAT			
Power Line:	2/N/PE, AC 400 V ± 10 %, 50/60 Hz	Connection Value:	7.5 kVA
Line Voltage:	400 V ± 10 %	Power Consumption: Long-term Short-term	 0.5 kVA 7.5 kVA
Line Impedance:	≤ 900 mΩ		
Cable cross section to be determinded by calculation.			

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Power requirements for MAMMOMAT			
Power Line:	1/N/PE, AC 230 V ± 10 %, 50/60 Hz	Connection Value:	7.5 kVA
Line Voltage:	230 V ± 10 %	Power Consumption: Long-term Short-term	 0.5 kVA 7.5 kVA
Line Impedance:	≤ 300 mΩ		
Cable cross section to be determinded by calculation.			

Room lighting

Ambient lighting in rooms with diagnostics or with workstations must comply with the respective local and national regulations.
General requirements like the needed intensity of illumination - adjustable, reproducible, flicker-free or a limitation of dazzlings and reflections etc. have to be observed (EN 12464-1, DIN 5035-7).

General Information

Smart Remote Services (SRS)

Smart Remote Services (SRS) is used for remote diagnostics as well as remote service to provide highest system availability.
Requirements:
- Broadband connection (minimum 4 MBit/s down- and 768 kBit/s upstream, optimum 30 MBit/s down- and 2 MBit/s upstream) without time or volume limitations
- Router (for exclusive use with SRS)

Data protection and security is defined in the Smart Remote Services security concept.

Network Integration

The Siemens Healthineers components are using TCP/IP Protocol, a 100/1000 Mbit/s switched Ethernet network and static IP addresses.
The required network cabling (min. CAT 5 TP) has to be provided on site. Media converters, which are needed for using fibre optic cabling, are not in scope of delivery.
To prepare the implementation of the new system into the existing network environment, the availability of the needed network data at least two weeks before starting the installation is mandatory.
This is the only way to ensure a seamless integration of the new system into the workflow of the department.

Display screen workstations

For setting up display screen workstations, take account of the guidelines in the Display Screen Workstation directive as well as any national regulations (e.g. EN ISO 9241-5).

Notes on preparations for installation

Contracts for performing and supervising on-site installation preparations should be concluded with technically competent companies by the customer. The customer is responsible for timely and proper completion and supervision of all preparations for installation at the construction site in observance of all applicable legal regulations (e.g. X-ray regulations, radiation protection regulations) and all applicable general recognized rules of technology (e.g. VDE regulations, DIN standards).
Execution and supervision of installation preparations at the construction site and later observance of the standard operating conditions are not included in our duties. The customer is responsible for checking the static calculations and, where applicable, the air conditioning in the building to be equipped.

Safety distances

Distances from moving parts of the medical device to walls, furniture and other equipment have to be kept to avoid injuries by crushing in compliance with local regulations, e.g. a minimum distance of 50 cm according to DIN EN ISO 13854.

It is the customer's responsibility to ensure the above requirements are followed. This is to avoid the risk of injury.

Radiation protection

The structural radiation protection depends on the location of the unit and the function of the surrounding rooms. By order, the planning departments of Siemens Healthineers prepare radiation protection calculation and radiation protection plan.

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