








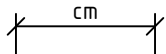
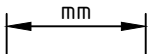



MAGNETOM Sola, 1.5 Tesla

Basic Planning Information

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Legend	
	Motion area / Swivelling range / Minimal room size / Safety distance
	Service area
	Floor mounted
	Ceiling mounted
	Wall mounted
	Additional equipment
	Demolition

Dimensioning
<p>All installation measurements apply to finished wall/floor/ceiling and are to be checked prior to assembling the unit.</p> <div style="display: flex; align-items: center; gap: 20px;"> <div>  </div> <div>  </div> </div> <p> Orientation point = reference point of the Siemens Healthineers unit for planning and installation</p> <p>Please note: The drawing parts in this document are not to scale!</p>

Electrical Installation

Power requirements			
Mains: TN-S	3/N/PE	AC 50/60 Hz \pm 1 Hz	Connection value:
Line voltage:		400 V \pm 10 %	System XQ: 88 kVA Chiller (optional): 48 kVA
Line to line unbalanced:		max. 2 %	Power consumption for time up to < 3 s: 104 kVA
System XQ	Line impedance:	\leq 100 m Ω	System XJ: 69 kVA Chiller (optional): 48 kVA
System XJ	Line impedance:	\leq 120 m Ω	Power consumption for time up to < 3 s: 75 kVA
Only copper cables are allowed.			
Measurement sequences < 3 s.			
The size of the terminals in the EPC are designed for 70 mm ² (System XQ) and 50 mm ² (System XJ).			
Cable cross section is to be determined by national regulation and calculation.			

Room lighting
<p>Ambient lighting in rooms with diagnostics or with workstations must comply with the respective local and national regulations.</p> <p>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).</p>

Noise Emission Values

Noise emission values			
If required, noise reduction should be realized based on the noise emission values as specified.			
Average values across 8 hours	Examination room	Control room	Technique room
	\leq 80.3 dB(A) XJ-Gradient \leq 80.6 dB(A) XQ-Gradient	\leq 55 dB(A)	\leq 65 dB(A)

General Information

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).

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.

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.

If safety distances are not maintained **appropriate on-site safety measures** have to be put in place. Clear visible markings according to national guidelines, e.g. crushing warning signs, hazard warning tape, hazard area cordon, safety mats, may be required.



Site readiness guidelines

The following general conditions are necessary to have the status of "Ready site":

- 1) Proper power available at Siemens Healthineers Equipment Power Cabinet location and all power outlets functioning
- 2) Air conditioning / humidification systems complete, tested and functioning properly according to Siemens Healthineers specifications.
- 3) RF enclosure, infrastructure of the examination room complete.
- 4) The quench line must be available for immediate use to allow suitable venting for the magnet during installation.
- 5) Plumbing complete except for any final connections to Siemens Healthineers equipment.
- 6) All cable trays, ducts, conduits correctly sized, located and installed according to the Siemens Healthineers drawings
- 7) Room for equipment installation and immediate vicinity is dust-free and is to remain so for the duration of the installation.
- 8) Customer approval for Siemens Healthineers Remote Service (SRS) connection and customers IT. Contact information and IP address established.

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.

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