

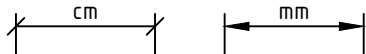



Luminos Fusion

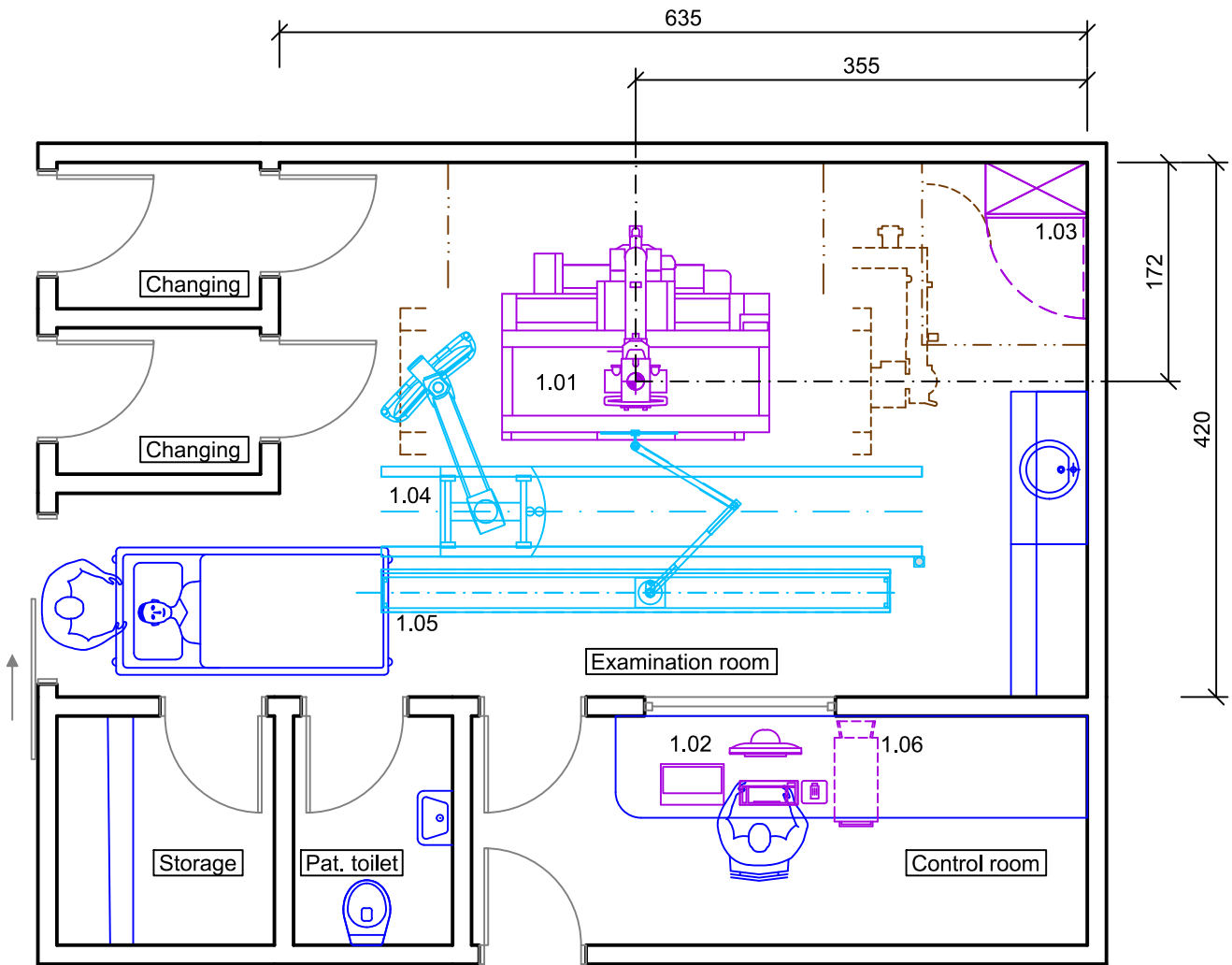
Basic Planning Information

Table of contents	
Planning Example	3
Room Dimensioning	6
Statics and Transport	7
Air-conditioning	9
Electrical Installation	9
General Information	10

Legend		
----- Motion area / Swivelling range / Minimal room size / Safety distance		
..... Service area	— Ceiling mounted	— New construction
— Additional equipment	— Wall mounted	— Demolition
	— Floor mounted	

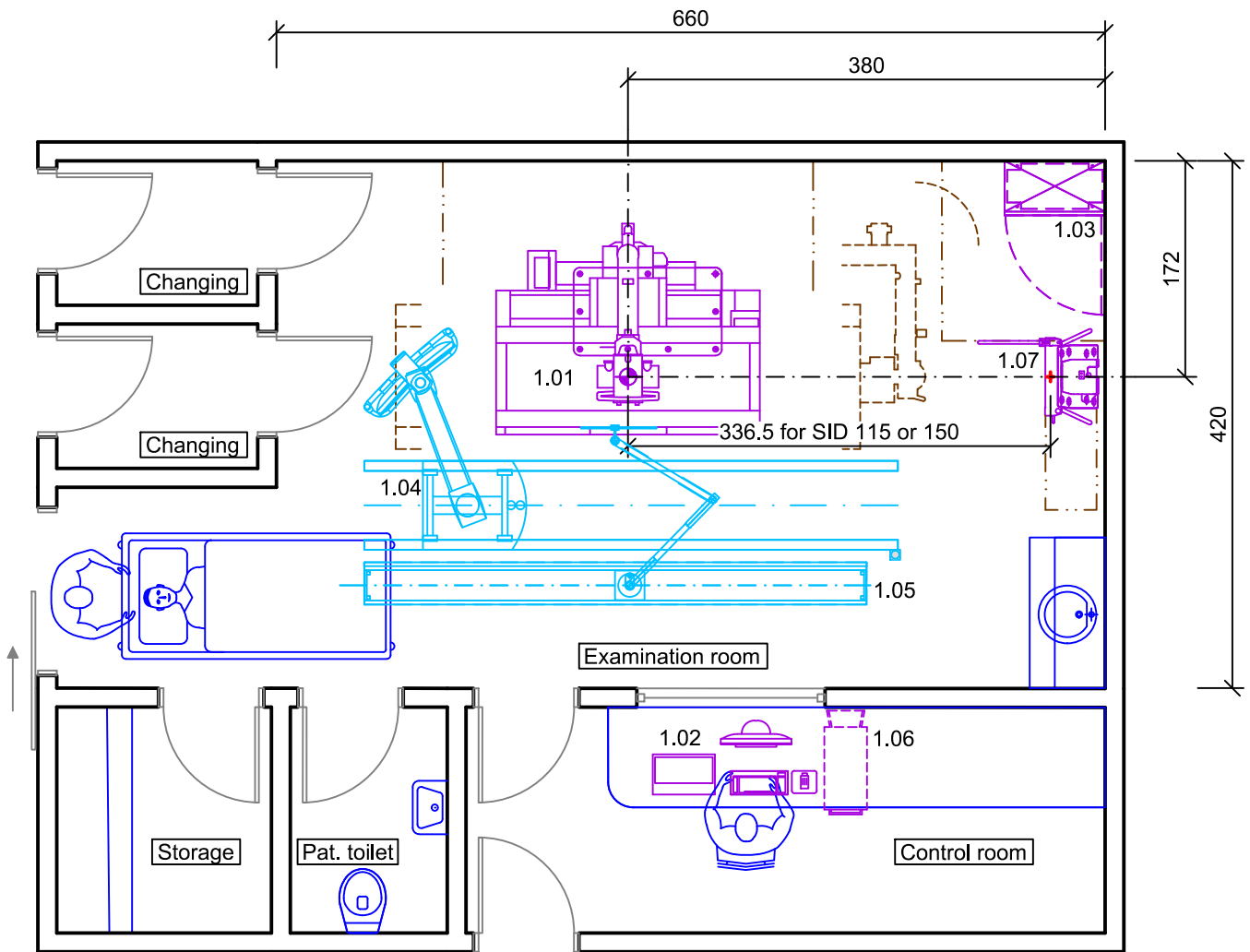
Dimensioning
All installation measurements apply to finished wall/floor/ceiling and are to be checked prior to assembling the unit.

 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



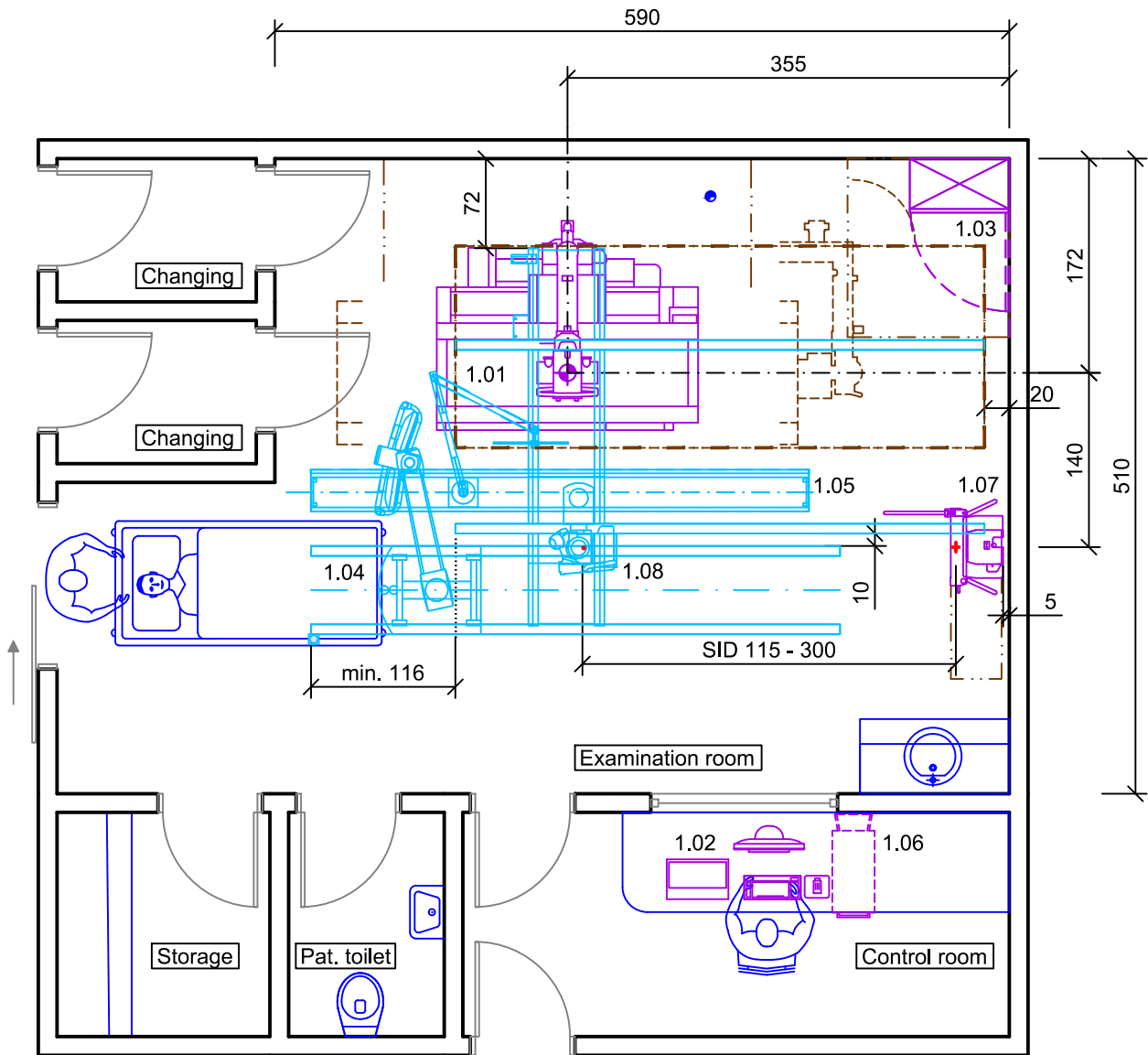
Luminos Fusion - Equipment Legend

Pos.	Description	Weight (kg), Heat dissipation to the air (W)		
		kg	W	Remark
1.01	Luminos Fusion	1250	500	
1.02	Unit control console	5	24	
1.03	Generator Polydoros F65	380	600	#1
1.04	DCS -2IC_DVI with 2 Displays	190	150	
1.05	Upper body radiation shield, moveable	71		optional
1.06	FLUOROSPOT Compact Container, Keyboard and Monitor	50	430	
	#1 350 W Standby			



Luminos Fusion - Equipment Legend

Pos.	Description	Weight (kg), Heat dissipation to the air (W)		
		kg	W	Remark
1.01	Luminos Fusion	1250	500	
1.02	Unit control console	5	24	
1.03	Generator Polydoros F65	380	600	#1
1.04	DCS -2IC_DVI with 2 Displays	190	150	
1.05	Upper body radiation shield, moveable	71		optional
1.06	FLUOROSPOT Compact Container, Keyboard and Monitor	50	430	
1.07	Bucky wall stand PRO	210	10	optional
	#1 350 W Standby			



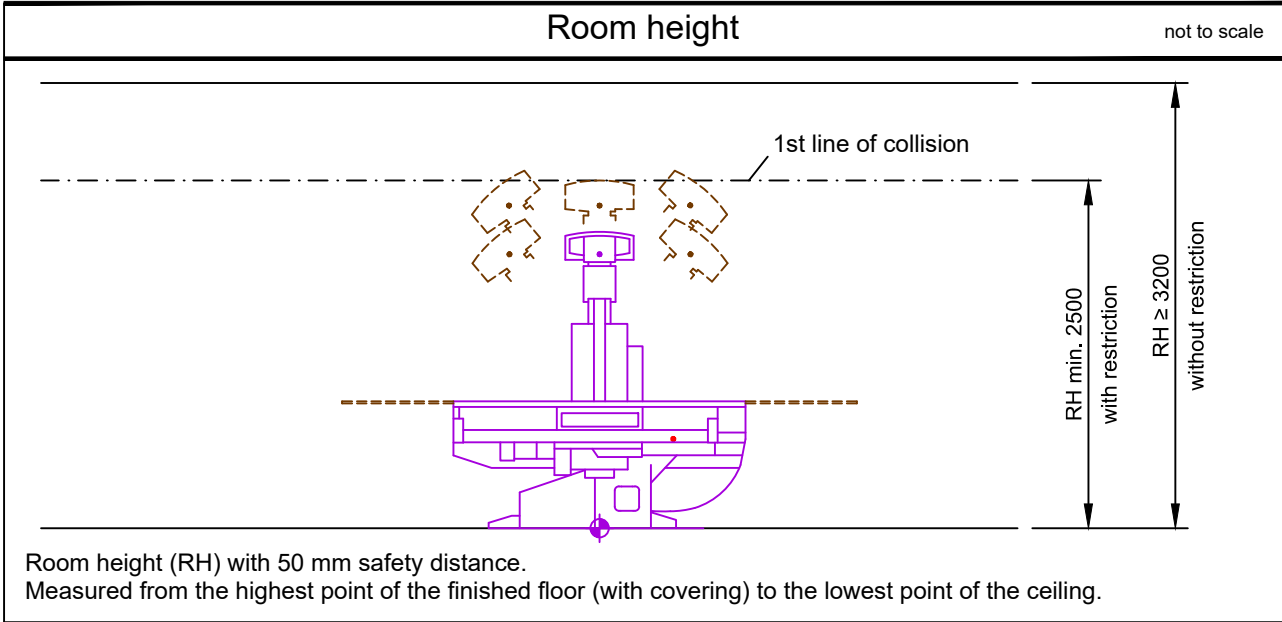
Luminos Fusion - Equipment Legend

Pos.	Description	Weight (kg), Heat dissipation to the air (W)		
		kg	W	Remark
1.01	Luminos Fusion	1250	500	
1.02	Unit control console	5	24	
1.03	Generator Polydoros F65	380	600	#1
1.04	DCS -2IC_DVI with 2 Displays	190	150	
1.05	Upper body radiation shield, moveable	71		optional
1.06	FLUOROSPOT Compact Container, Keyboard and Monitor	50	430	
1.07	Bucky wall stand PRO	210	10	optional
1.08	Ceiling-mounted stand 3m transverse track	380	900	40 W standby
	#1 350 W Standby			

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.



Room height

not to scale

Room height (RH)
Measured from the highest point of the finished floor (with covering) to the lowest point of the ceiling.

Minimum room height	2620 mm
Max. room height without the telescope extension	2885 mm (*1)
	3020 mm (*2)
Max. room height with the telescope extension	3085 mm (*1)
	3220 mm (*2)

(*1) Exposures are possible horizontally onto the wall stand at 0° in the lowest position
 (*2) Exposures are not possible horizontally onto the wall stand at 0° in the lowest position

Statics and Transport

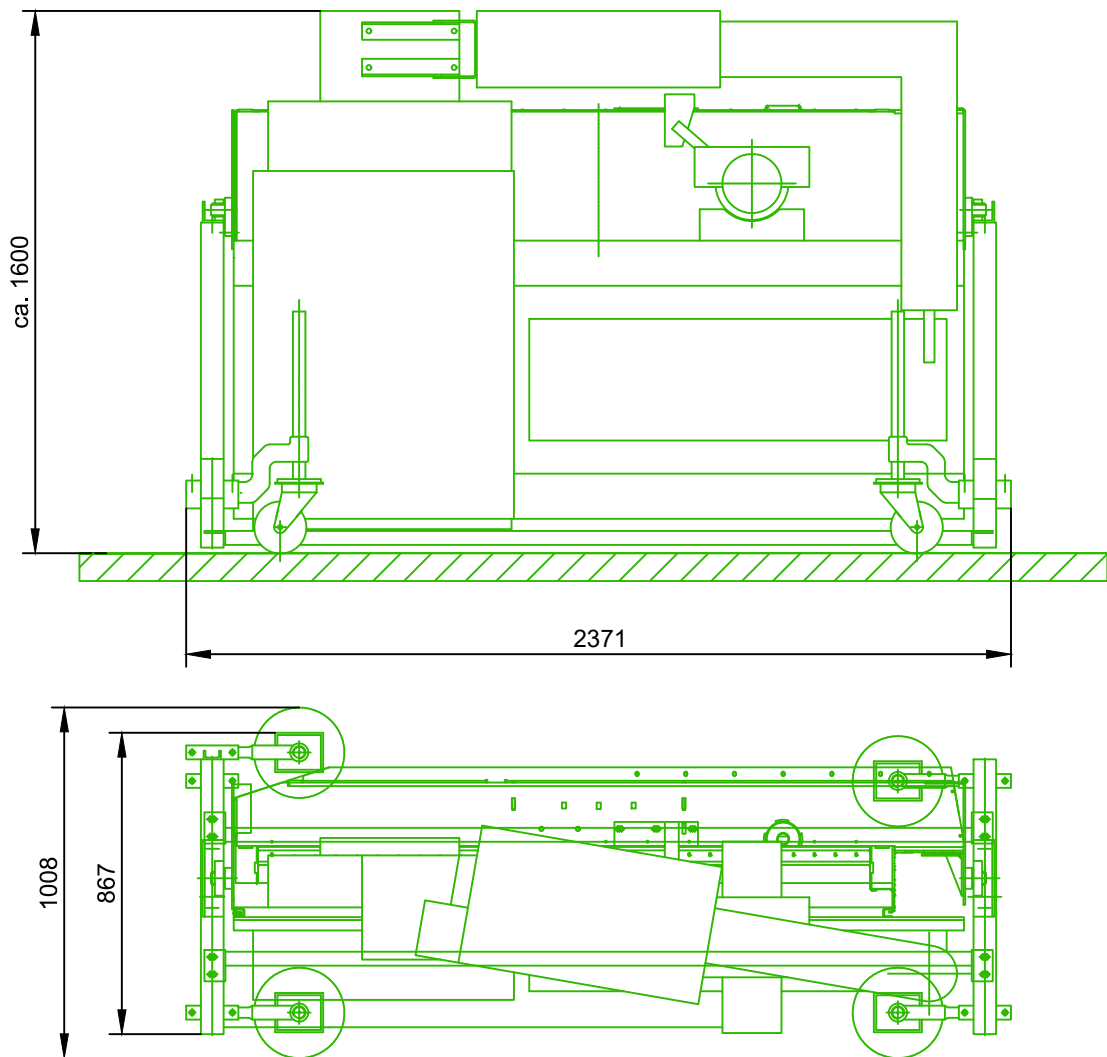
Statics

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 (approx. 160 x 110 cm). If an appropriate substructure is provided on site, the unit may also be mounted on access floor.

Maximum compressive force = 5 kN, maximum tractive force = 1 kN

Transport		not to scale
Largest crate	L 2550 x B 1860 x H 1720 mm	
Heaviest single part	approx. 1374 kg with packaging approx. 790 kg without packaging	
Largest single part without packaging	L 2372 x B 867 x H 1600 mm (all transport castors inside) L 2677 x B 800 x H 1600 mm (2 transport castors concealed inside) L 2921 x B 800 x H 1600 mm (all transport castors outside)	
Minimum door width	min. 815 mm (device tilted)	
Minimum dimensions elevator	L 2921 x B 815 x H 1600 mm	
The door must have a final clearance of 1250 mm if bed entrance is requested.		

Transport Frame (all transport castors inside)



Environmental conditions

Environmental conditions			
	Operation	Transport	Storage
Temperature	10 to 35 °C	-20 to 70 °C	-20 to 70 °C
Relative humidity	20 to 75 %	10 to 95 %	10 to 95 %
Air pressure	700 to 1060 hPa	500 to 1060 hPa	500 to 1060 hPa

Electrical Installation

Power requirements for POLYDOROS F65			
Power Line:	3/N/PE AC, 50/60 Hz \pm 1 Hz	Connection Value	34.6 kVA
Line Voltage:	400 V \pm 10 %	Power Consumption: Fluoroscopy Radiography	2,5 kVA 110 kVA
Line Impedance:	\leq 170 m Ω		
Cable cross section to be determined by calculation, min./max. 16 mm ² / 35 mm ²			
Do not connect external components to the power line !			

Power requirements for POLYDOROS F80			
Power Line:	3/N/PE AC, 50/60 Hz \pm 1 Hz	Connection Value	34,6 kVA
Line Voltage:	400 V \pm 10 %	Power Consumption: Fluoroscopy Radiography	2,5 kVA 126 kVA
Line Impedance:	\leq 110 m Ω		
Cable cross section to be determined by calculation, min./max. 16 mm ² / 35 mm ²			
Do not connect external components to the power line !			

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>	

General Information

Notes to Wireless Detector

Operation of the mobile detector can be disturbed by other WLAN devices in the vicinity of the installation. To prevent this during the planning phase, it is necessary to inquire about the installation environment regarding any existing WLAN devices.

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 10 Mbit/s down- and upstream, optimum 50 Mbit/s down- and upstream) without time or volume limitations
- The computer hosting of the Teampay Receiver requires access to the hospital intranet and the internet. It should have a at least 6 Mbits/s upstream to the internet and at least 100 Mbits/s downstream from the internet.
- 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.

On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this brochure are available through the Siemens sales organization worldwide. Availability and packaging may vary by country and are subject to change without prior notice. Some/all of the features and products described herein may not be available in the United States.

The information in this document contains general technical descriptions of specifications and options as well as standard and optional features which do not always have to be present in individual cases.

The statements by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g. hospital size, case mix, level of IT adoption), there can be no guarantee that other customers will achieve the same results. The customers cited are employed by an institution that might provide Siemens product reference services, R&D collaboration or other relationship for compensation pursuant to a written agreement.

Siemens reserves the right to modify the design, packaging, specifications, and options described herein without prior notice. Please contact your local Siemens sales representative for the most current information.

Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

Not all features shown in this brochure are necessarily standard and available in all countries.

Published by

Siemens Healthineers AG
SHS ES FD

Siemens Healthineers Headquarters

Siemens Healthineers AG
Siemensstr. 3
91301 Forchheim, Germany
Phone: +49 9191 180
siemens-healthineers.com