

Artis zee floor

Basic Planning Information

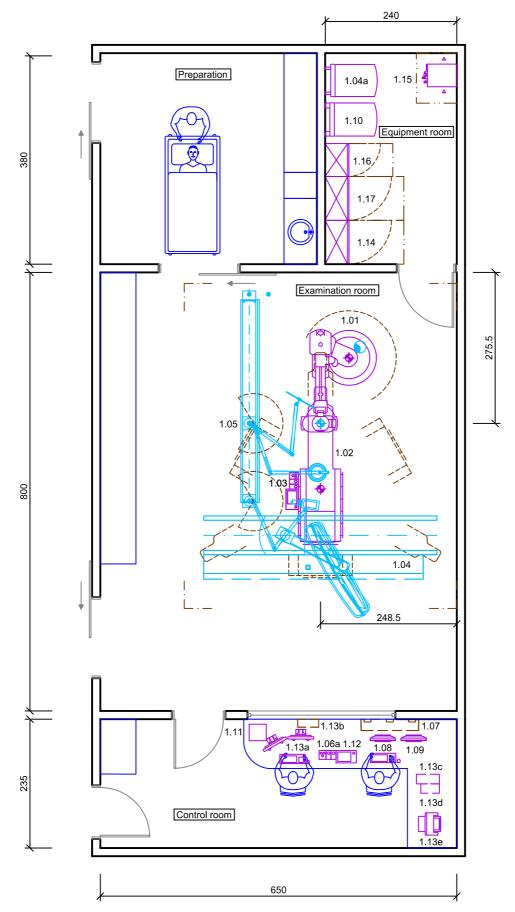


Table of contents	
Planning Example	3
Room Dimensioning	5
Statics and Transport	6
Environment	7
Electrical Installation	8
General Information	9

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





		Weight (kg), Heat dissipation to the air (W)		
Pos.	Description	kg	W	Remark
1.01	Floor stand	665	200	
1.02	Basic table narrow	452	200	
1.03	Control console and ECC I on patient table	4		
	Display boom DCS 2		150	
1.04a	LDC (Large Display Container)	115	450	
1.05	Upper body radiation shield with OR light and injector, moveable (2. carriage)	130		optional
1.06a	Control module			optional
1.07	Control room distributor	29	100	
1.08	Workplace Display with keyboard	10	75	
1.09	Reference Display	10		optional
1.10	AXIS image system	150	1270	
1.11	Archive Console Extension (ACE)	6		
	Control console ECC II	3		optional
1.13a	Sensis - 2x Display with mouse and keyboard	21	150	
-	Sensis - Control Room Cabinet CR2	20	1000	
	Sensis - Computer DMC	10	275	
1.13d	Sensis - Tripplite SmartPro - UPS	16	500	
1.13e	Sensis - Laser Printer	26		option, #20
	Generator POLYDOROS A100 Plus	300	1000	1200W for Artis Q
	Cooling unit - SMC one4all	28	2400	
	System control cabinet	270	1600	80cm wide for Artis Q
1.17	Cable cabinet	120		optional
	#20 heat dissipation: printing 800W, standby 17W			

Artis zee floor – Equipment Legend

Notes

All components that do not belong to the Siemens Healthineers system are labeled as external system components.

*1 - Collision Area for "non-system Components"

Zone *A - No external system components may be installed.

Zone *B - Represents the safety distance of 500 mm between motor-driven parts and personnel as defined by EN 60601. No external system components may be installed whose fixed part (e.g. support arm column) is less than the clear minimum height of 2000 mm to the finished floor. Moving parts (e.g. support arm) of the components that are below the minimum height of 2000 mm must be able to perform evasion to outside of the safety area if there is a collision with the c-arm.

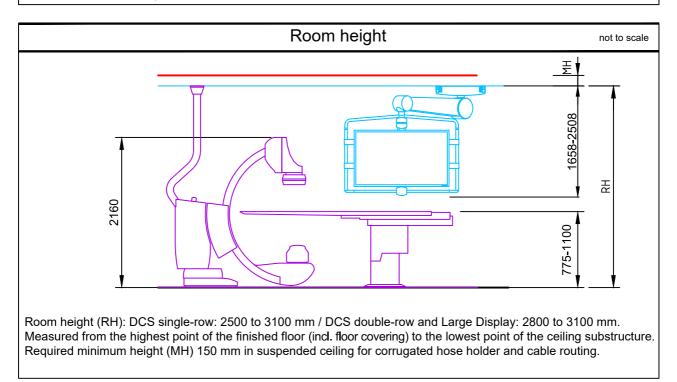
If this information is not observed, there is a risk of crushing for personnel or a risk of property damage.



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.



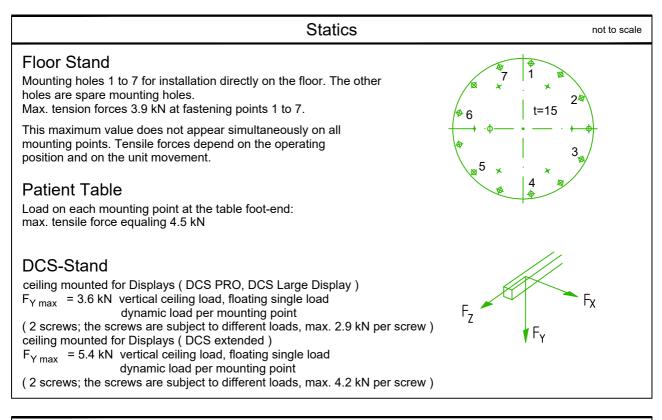
UPS - Notes

In case of a power failure no moving of the system and motorized table is possible. For all Artis systems with Artis Tilting table, Artis OR table or Artis zee Multipurpose an UPS is mandatory.

Minimum 15 kVA UPS for system and table movement e.g. Eaton Powerware 15 kVA. If customer already has an on-site Full Power UPS, this can be used, if it fulfills this requirement.



Statics and Transport



The transport route (doors and hallway) needs sufficient dimensions for the following parts:				
Largest crate with packaging with FD 20 x 20		276 x 102 x 209 cm (W x D x H), Weight 1200 kg		
Largest crate with packaging with FD 30 x 40		280 x 95 x 202 cm (W x D x H), Weight 1200 kg		
Largest single part with transp. carriage with FD 20 x 20		250 x 82 x 190 cm (W x D x H), Weight 760 kg		
Largest single part with transp. carriage with FD 30 x 40		262 x 82 x 188 cm (W x D x H), Weight 760 kg		
The door must have a final clearance of 125 cm if bed entrance is requested.				
Shocks	max. 10 g / 16 ms	max. 25 g / 6 ms (in original packaging)		
Vibration	max. 2 g / 58 to 150 Hz	max. 10 g / 58 to 150 Hz (in original packaging)		



Environment

Environmental conditions for transport / storage		
Temperature range Relative humidity Barometric pressure	-20° to 70 °C 10 to 95 % without condensation 50 to 106 kPa	
Acceleration	There must be absolute compliance with the following transport conditions to prevent damage to the system: Maximum acceleration spectral density according to DIN EN 60721-3-2 class 2M2 1 m²/s³ (0.01 g²/Hz) for oscillation frequencies from 10 to 200 Hz Maximum acceleration according to DIN EN 60721-3-2 class 2M2 Permissible peak acceleration â (full shock response spectrum type I): Horizontal shock (longitudinal / transverse): 40 m/s² (corresponds to the shunting of a train car) Vertical shock: 100 m/s²	

Environment					
Examination and control room	Temperature range Relative humidity	15 to 30 °C (recommended 22 °C) 20 to 75 % non-condensing			
Image system	Temperature range Relative humidity Max. temperature gradient Air flow volume Max. noise generation	10 to 35 °C 20 to 75 % non-condensing 10 °C / h 630 m³ / h 53 dB(A)			
Generator	Temperature range Relative humidity Max. temperature gradient Air flow volume Max. noise generation	10 to 35 °C 20 to 75 % non-condensing 5 °C / h 160 m³ / h 55 dB(A)			
System- control cabinet 1	Temperature range Relative humidity Max. temperature gradient Air flow volume Max. noise generation	15 to 30 °C 20 to 75 % non-condensing 5 °C / h 500 m³ / h 48 dB(A)			
Cooling set	Cooling air Flow rate Max. noise generation	15 to 30 °C, frost-free room 4,2 I / min. 55 dB(A), 57 dB(A) at altitude > 3000m			
Stand with flat panel detector	Max. temperature gradient Air pressure Schocks Vibrations	5 °C / h 70 to 104 kPa max. 10 g / 16 ms max. 0.1 g / 10 to 200 Hz			
UPS 15 kVA	Temperature range Relative humidity Air change Max. noise generation	0 to 40 °C 20 to 25 °C recommended 5 to 95 % non-condensing 0,18 m³ / h 60 dB(A)			
UPS 40 kVA	Temperature range Relative humidity Air change Max. noise generation	0 to 40 °C 20 to 25 °C recommended 5 to 95 % non-condensing 0,35 m³ / h 60 dB(A)			



Electrical Installation

Electrical Data

Power line: TN-S 3/N/PE AC 50/60 Hz ± 1%, Line voltage: 400 V ± 10% Cable cross section is to be determined by calculation!

Line Impedance: \leq 135 m Ω , Power Consumption - continuous: 8 kVA, momentary: 160 kVA, Power load: 34.6 kVA, System control cabinet: Power load: 24.2 kVA

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

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.

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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