

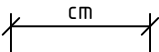



MULTIX Impact C

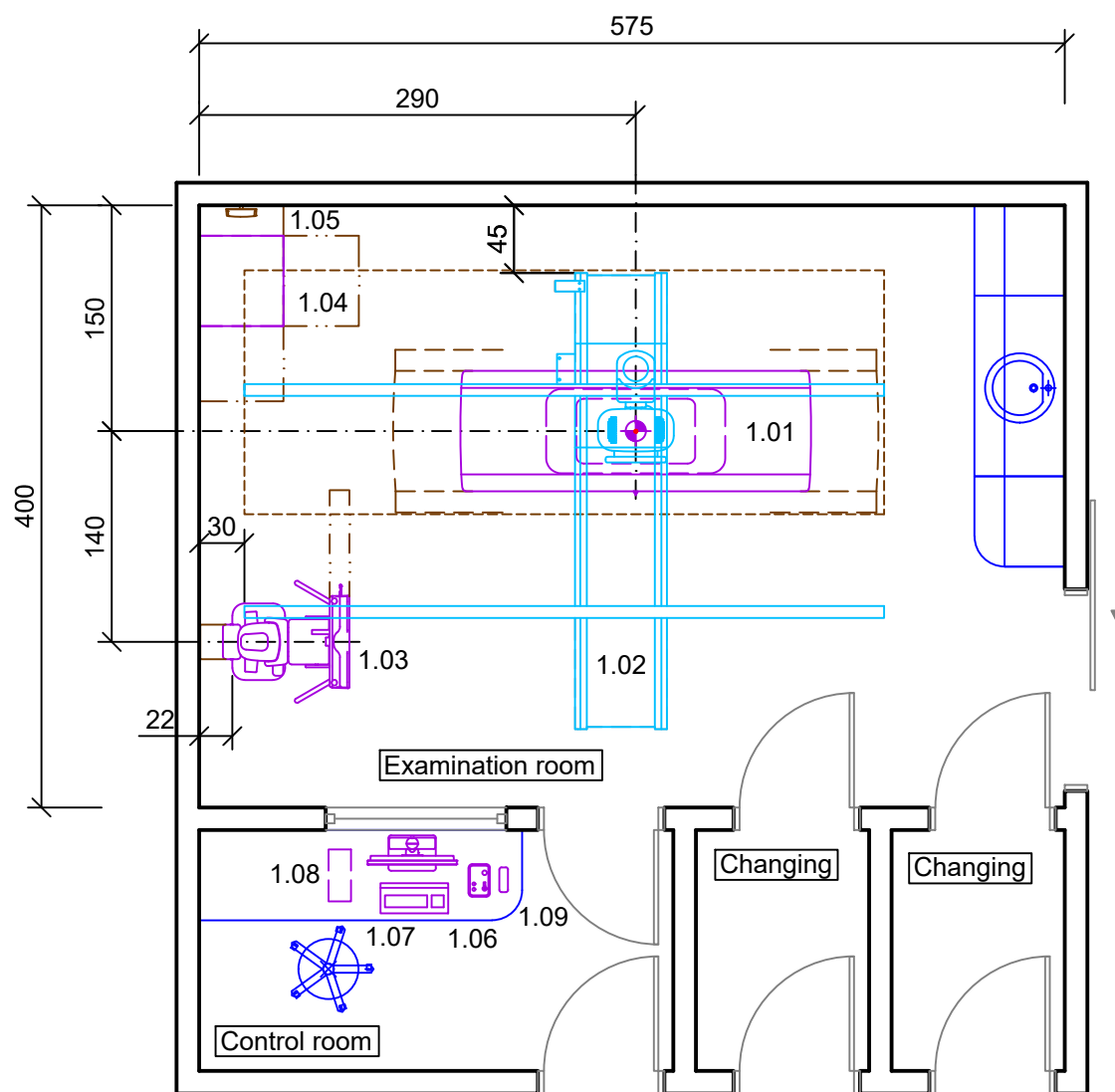
Basic Planning Information

Table of contents	
Planning Example	3
Room Dimensioning	5
Statics and Transport	7
Air-conditioning	8
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

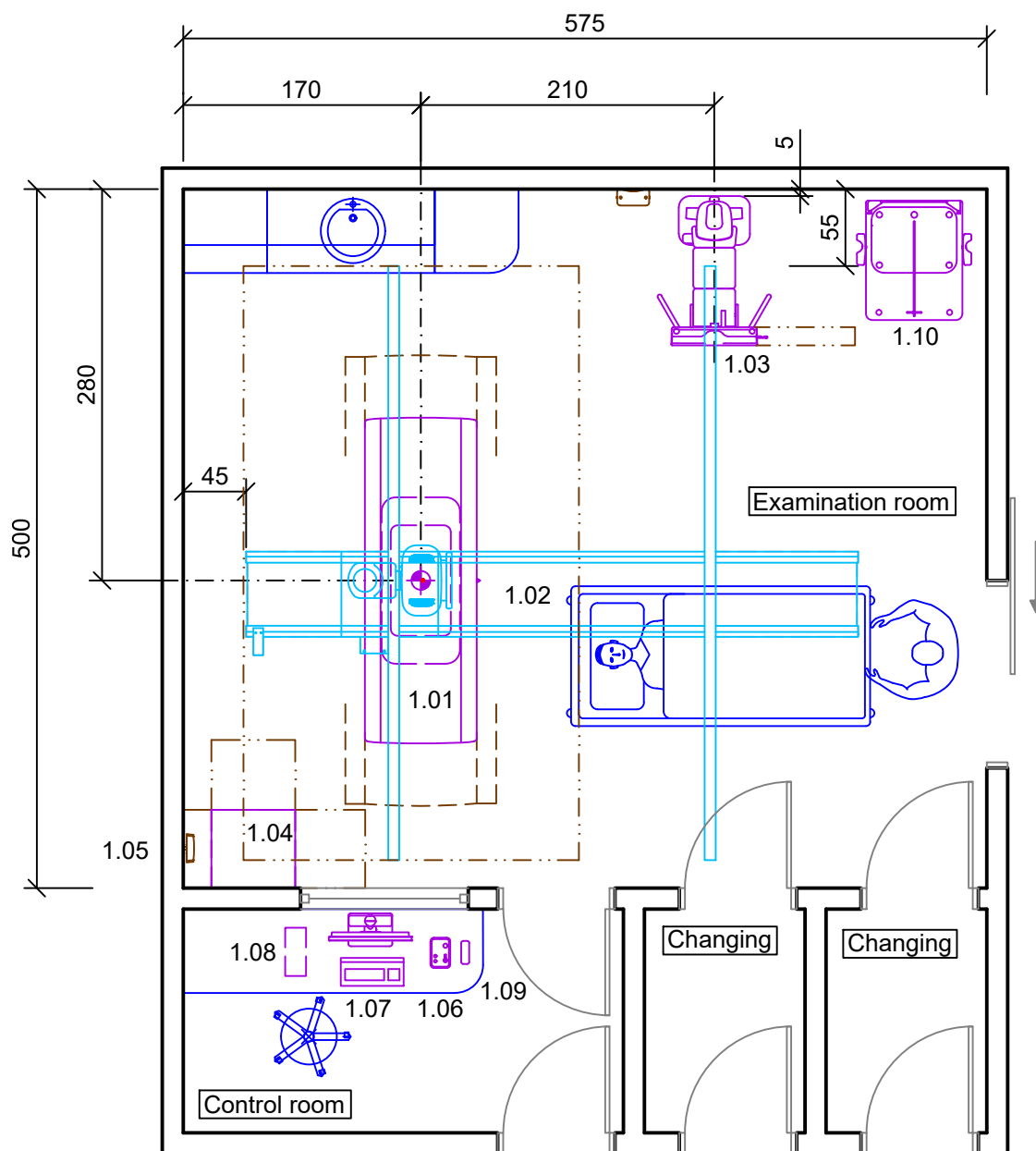
Dimensioning
All installation measurements apply to finished wall/floor/ceiling and are to be checked prior to assembling the unit.

 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



MULTIX Impact C - Equipment Legend

Pos.	Description	Weight (kg), Heat dissipation to the air (W)		
		kg	W	Remark
1.01	Patient table for mobile detector with flat table top	320		
1.02	Ceiling-mounted stand 3m transverse carriage	405	250	40 W standby
1.03	Wall stand, tilting, for mobile detector			
1.04	Generator Polydoros RFX (55 kW) incl. PSU	190	550	300 W standby; H=132 cm
1.05	Access Point with wall holder	1		
1.06	Control room module	1		
1.07	Image system (AIO PC)	10	120	
1.08	UPS for image system	11		optional
1.09	Wireless Remote Control			optional



MULTIX Impact C - Equipment Legend

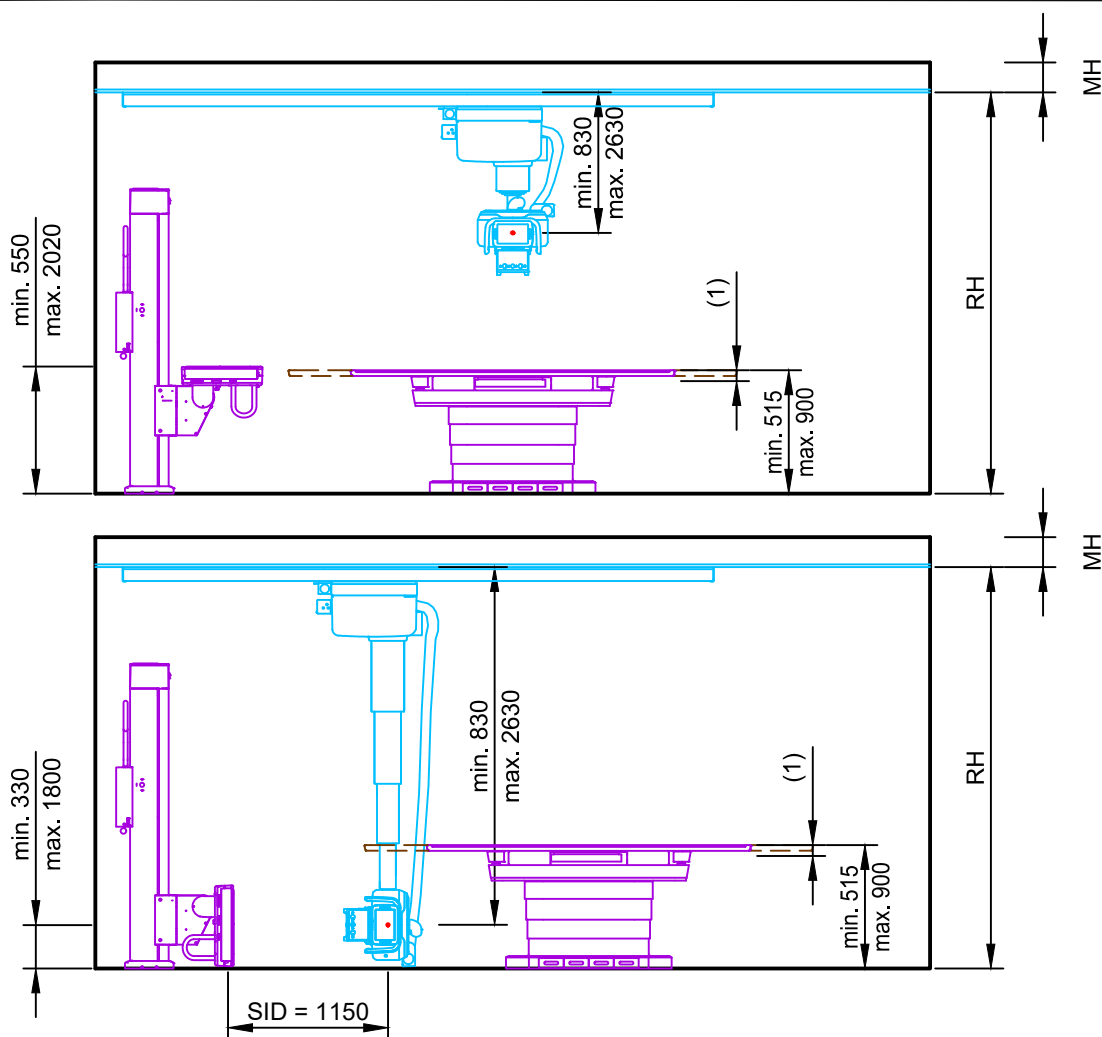
Pos.	Description	Weight (kg), Heat dissipation to the air (W)		
		kg	W	Remark
1.01	Patient table for mobile detector with flat table top	320		
1.02	Ceiling-mounted stand 4m transverse carriage	425	250	40 W standby
1.03	Wall stand, tilting, for mobile detector, with spacer 290mm			
1.04	Generator Polydoros RFX (55 kW) incl. PSU	190	550	300 W standby; H=132 cm
1.05	Access Point with wall holder	1		
1.06	Control room module	1		
1.07	Image system (AIO PC)	10	120	
1.08	UPS for image system	11		optional
1.09	Wireless Remote Control			optional
1.10	Ortho Support	112		optional

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.

Technical minimum room height System view (Illustration contains optional equipment)

not to scale



RH	Room height	Room height (RH)	Table height SID 1150 mm	Notes
MH	Mounting height (100 mm recommended)			
SID	Source Image Distance			
Minimum room height		2600 mm	670 mm	(1) / (3)
Optimal room height		2900 mm	900 mm	(2) / (3)
Maximum room height without telescopic extension		2800 mm	900 mm	(2) / (3)
		3000 mm	900 mm	(2) / (4)
Maximum room height with telescopic extension		3000 mm	900 mm	(2) / (3)
		3200 mm	900 mm	(2) / (4)
Minimum room height with optional SmartOrtho function at the table: 2800 mm (SID 1500 mm required)				
(1) Table lift restricted				
(2) Table lift without restriction				
(3) Horizontal exams to Wall Stand with 0° in lowest position are possible				
(4) Horizontal exams to Wall Stand with 0° in lowest position are not possible				
(5) - Active area MAX detector: 69 mm				
- Active area DR detector: 70 mm				

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.

Static

Minimum Load Bearing Capacity:

The ceiling must ensure sufficient load distribution in transverse direction (e.g. steel-reinforced concrete ceiling) and need to be designed for an evenly distributed live load as defined below:

- Live load at least 3,5 kN/m² for component installation on the ceiling, e.g. wall stand.
- Live load at least 2,5 kN/m² for component installation below the ceiling, e.g. tube stand.

Patient table:

Max. compressive force: 4,2 kN

Max. tensile force (for anchorage): 1,5 kN

Wall Stand:

Max. compressive force: 2,8 kN

Max. tensile force (for anchorage): 1,9 kN

Ceiling stand:

Holding Forces per mounting point:

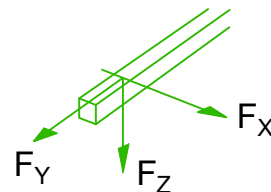
F_X max.: 2,7 kN

F_Y max.: 2,1 kN

F_Z max.: 5,0 kN

The listed load also include the dynamic loads up to a movement speed of 0,6 m/sec. in Y-direction. They are planned for the improbable situation in which if there is only one mounting point, it can handle the entire load.

Safety margin values are thus not included.



Transport

	Weight	Dimensions B x T x H
Tube unit stand	375 kg	170 x 103 x 135 cm
3m transverse track	190 kg	320 x 80 x 25 cm
4m transverse track	232 kg	440 x 80 x 25 cm
Patient table	410 kg	160 x 92 x 110 cm
Table top	70 kg	240 x 85 x 38 cm
Wall stand (without spacer)	343 kg	235 x 82 x 114 cm
Wall stand (with spacer 29cm)	368 kg	235 x 82 x 143 cm
Generator with PSU	250 kg	80 x 80 x 150 cm
Image system and accessories	> 150 kg ¹	160 x 92 x 100 cm
¹ Depending on scope of delivery		
Minimum door opening 105 cm, minimum corridor width 210 cm		
The door must have a final clearance of 125 cm if bed entrance is requested		

Air-conditioning

Environmental conditions			
	Operation	Transport	Storage
Temperature	10 to 30 °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	700 to 1060 hPa	700 to 1060 hPa

Electrical Installation

Power requirements for generator 65 kW				
Power Line:	3/N/PE AC, 50/60 Hz ± 1 Hz	Connection Value	34.6 kVA	
Line Voltage:	400 V ± 10 %	Power Consumption:		
Line Impedance:	≤ 170 mΩ		Radiography	110 kVA
Cable cross section to be determined by calculation, min. 16 mm²			Fluoroscopy	2,5 kVA
Do not connect external components to the power line !				

Power requirements for generator 80 kW				
Power Line:	3/N/PE AC, 50/60 Hz ± 1 Hz	Connection Value	34,6 kVA	
Line Voltage:	400 V ± 10 %	Power Consumption:		
Line Impedance:	≤ 110 mΩ		Radiography	126 kVA
Cable cross section to be determined by calculation, min. 16 mm²			Fluoroscopy	2,5 kVA
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 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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