
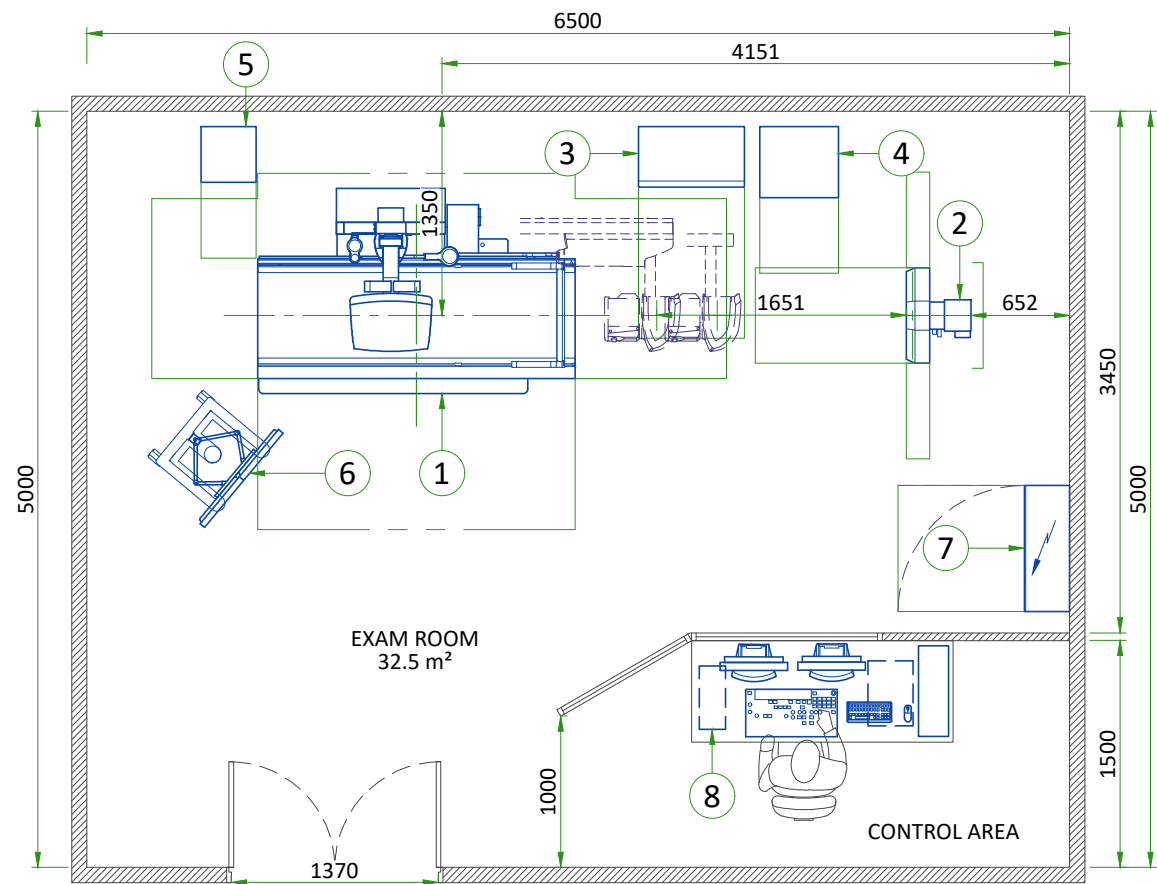




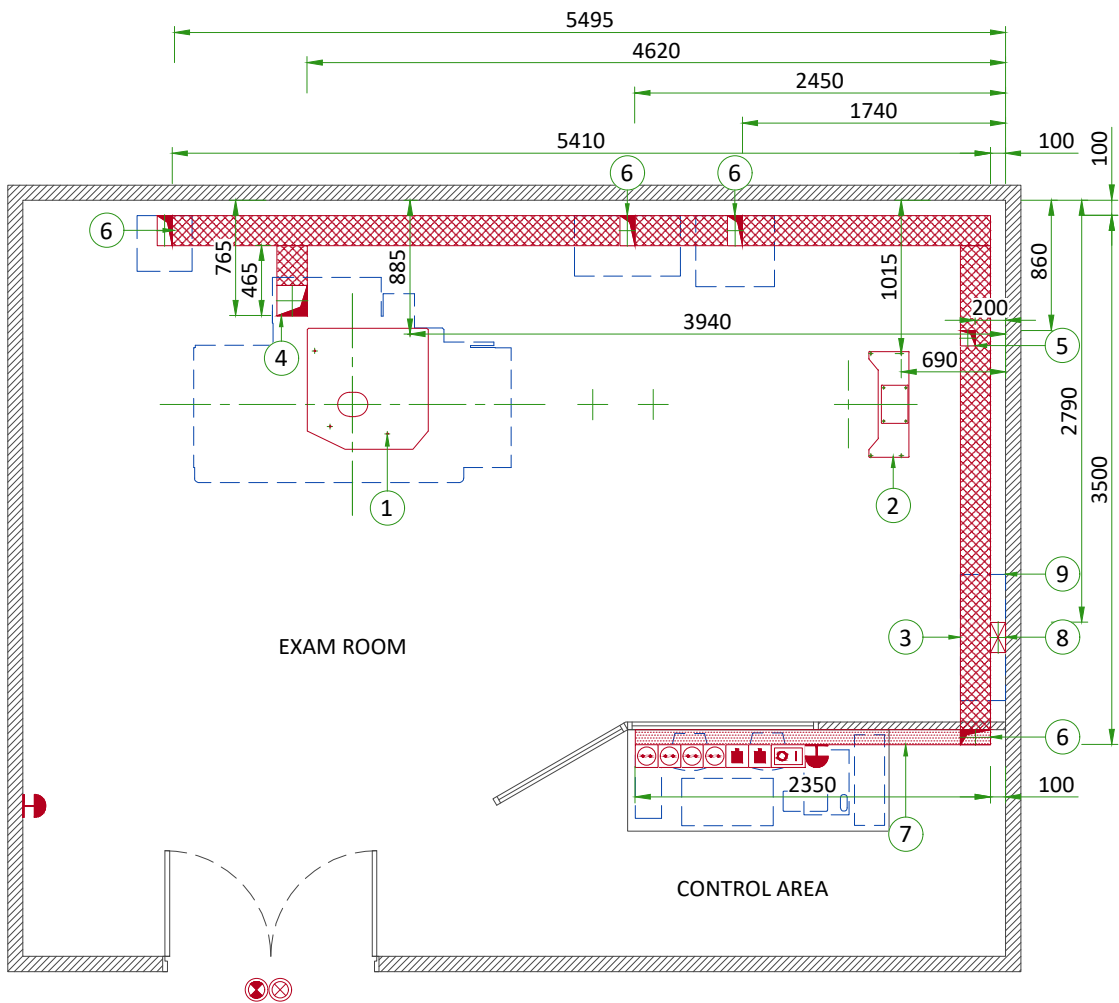
			<div>SITE NAME</div> <div>CITY</div> <div>COUNTRY</div>					
REV	DATE	MODIFICATIONS						
01 - Cover Sheet 02 - Equipment Layout 03 - Floor - Electrical Layout 04 - Floor Structural Details 05 - Power Requirements - Power Distribution 06 - Environment - Delivery - Table Views 07 - Interconnection 08 - Disclaimer - Site Readiness			<div> GE Healthcare</div>			<div>GE contact name</div> <div>Phone number</div> <div>Email address</div>		
<div>A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the Pre Installation manual will result in incomplete documentation required for site design and preparation. Pre Installation documents for GE Healthcare products can be accessed on the web at: www.gehealthcare.com/siteplanning</div> <div>GE does not take responsibility for any damages resulting from changes on drawings made by others. Errors may occur by not referring to the complete set of final issue drawing. GE cannot accept responsibility for any damage due to the partial use of GE final issue drawings, however caused. All dimensions are in millimeters unless otherwise specified. Do not scale from printed pdf files. GE accepts no responsibility or liability for defective work due to scaling from these drawings.</div>			<div>OPTIMA RF420</div> <div>TYPICAL STUDY</div>					
			Drawn by	Verified by	Concession	S.O. (GON)	PIM Manual	Rev
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EQUIPMENT LAYOUT

ITEM	DESCRIPTION	DIMENSIONS LxWxH (mm)	WEIGHT (kg)
1	NON-ELEVATING TABLE	1260x2105x2130	625
2	WALL STAND	630x436x2171	140
3	GENERATOR	400x700x1803	270
4	STARTER	470x520x402	56
5	HEAT EXCHANGER	370x364x152	12
6	MONITOR CART - DOUBLE	573x654x1454	52
7	POWER DISTRIBUTION BOX (PDB)	835x300x1035	-
8	OPERATOR CONSOLE	175x418x367	13

WALL - ACCORDING TO RECEIVED DRAWING	
EXAM ROOM HEIGHT	
FINISHED FLOOR TO SLAB HEIGHT	-
FALSE CEILING HEIGHT	Min. 2.60 m

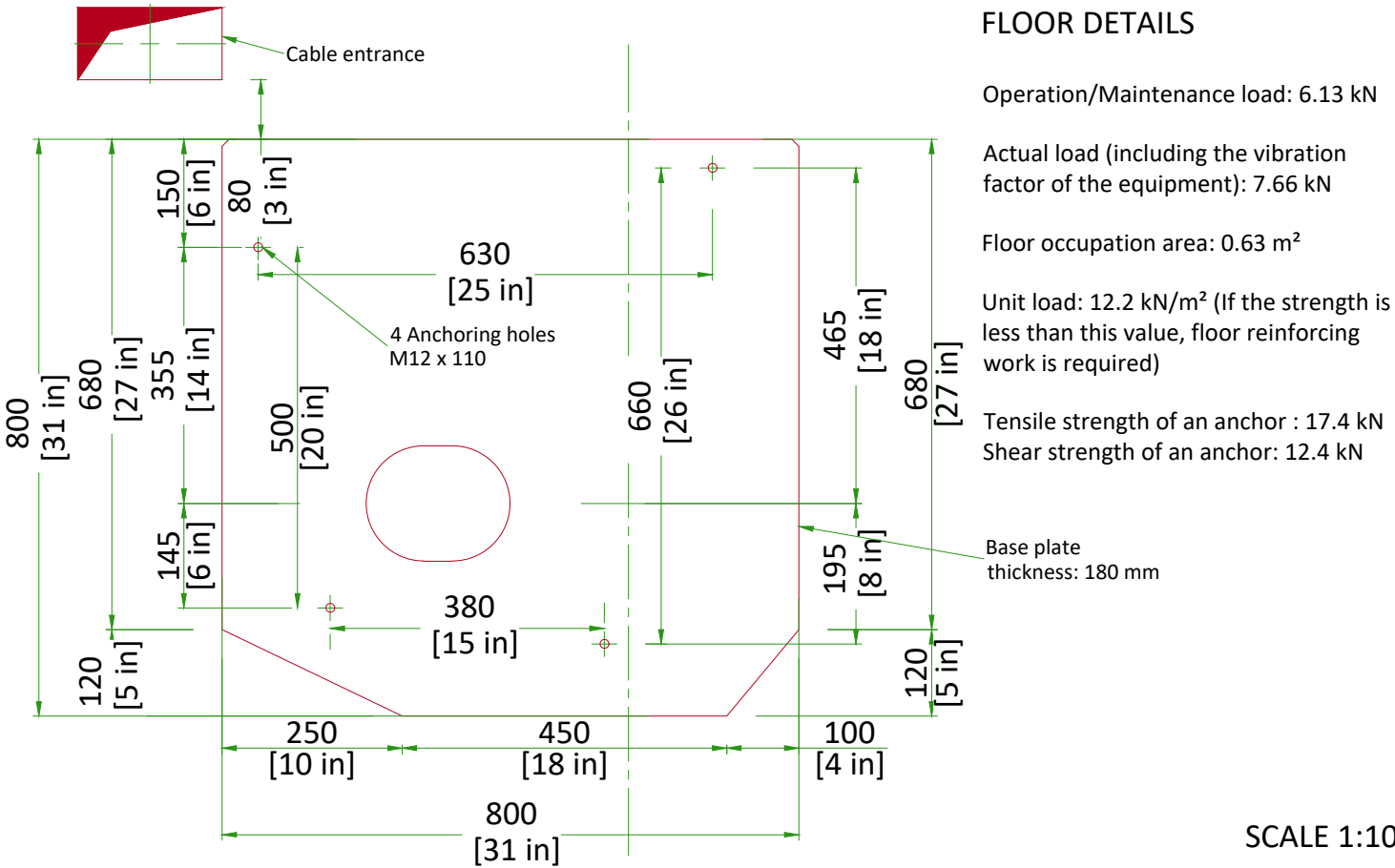


FLOOR - ELECTRICAL LAYOUT

N.	QTY	DESCRIPTION
1		Table anchoring (see Floor Structural Details)
2		Wallstand anchoring (see Floor Structural Details)
3		200x100 flush floor duct
4		200x200 cable inlet on the floor
5		100x100 cable inlet on the floor
6		200x100 cable inlet on the floor
7		200x100 horizontal wall duct
8		200x100 cable inlet on the floor and vertical wall duct for PDB (h=1.1m)
9		Power distribution box (PDB)
Basic system		
	4	Electrical outlet 10/16A 230V + G
	2	RJ 45 network socket
	1	System remote control (Y), locked when power OFF "ON" and "OFF" impulse buttons with indicator lamps red=ON / green=OFF located at 1.50m above floor
	2	System emergency off (SEO), (recommended height 1.50m-1.85m above floor)
	1	System ON light (L) - 24V
	1	X-Ray ON lamp (L1) - 24V
		Flush floor duct
		Wall duct

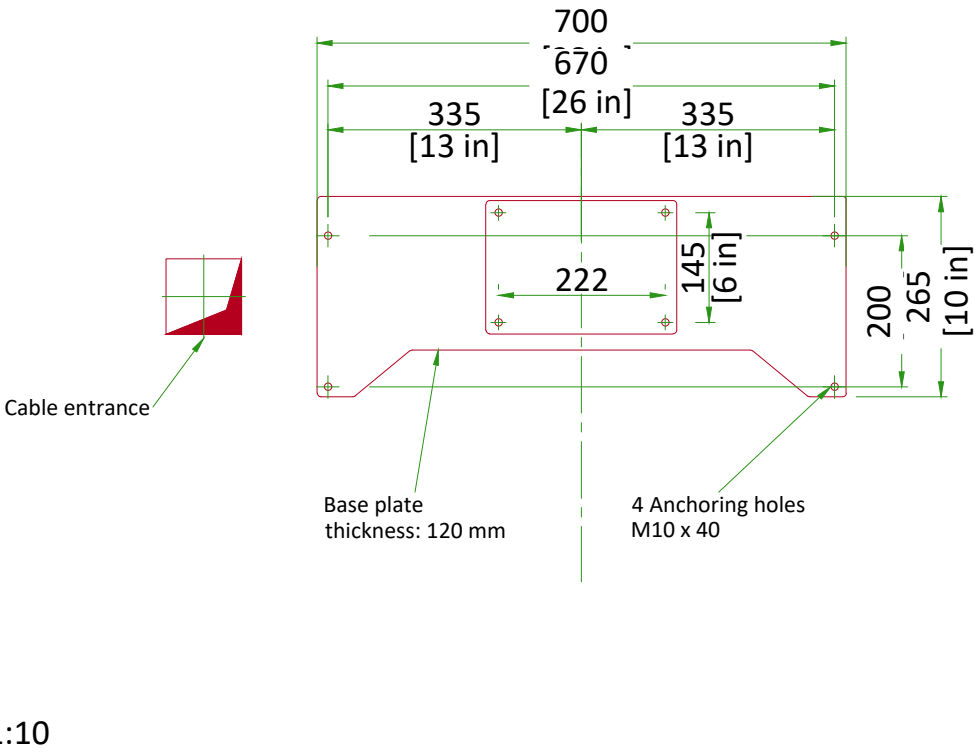
FLOOR MOUNTING

NON ELEVATING TABLE BASE PLATE



FLOOR MOUNTING

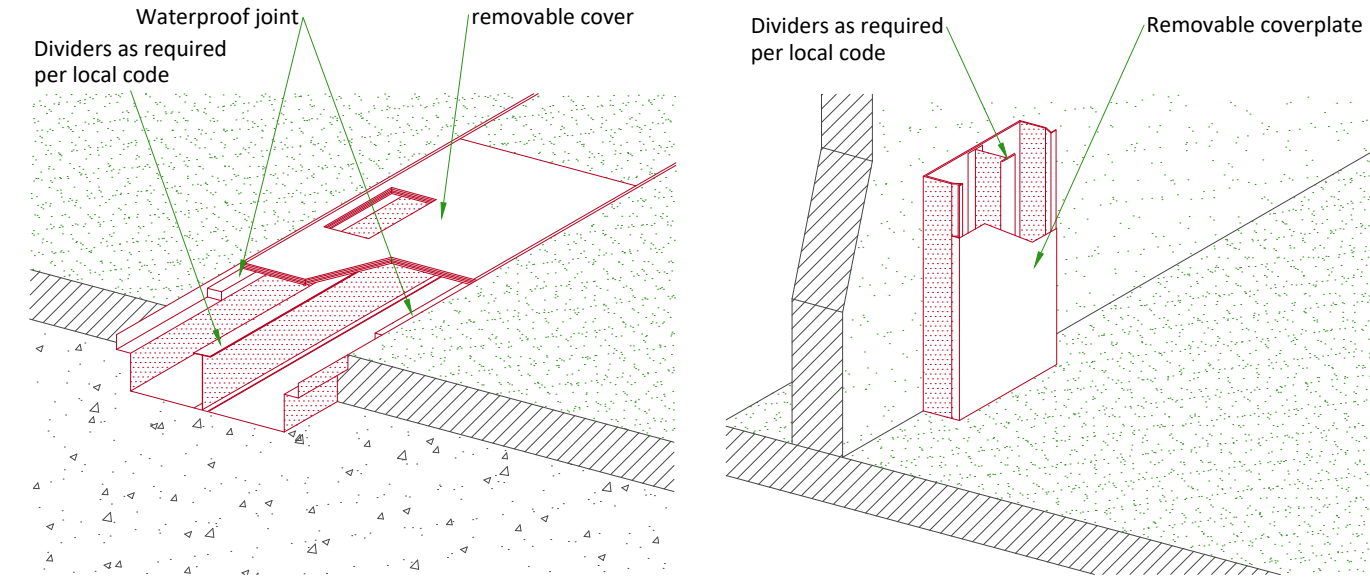
WALLSTAND BASE PLATE



TYPICAL CABLE MANAGEMENT

FLUSH FLOOR DUCT

VERTICAL DUCT ON WALL



NOT TO SCALE

POWER REQUIREMENTS

POWER SUPPLY	3 PHASES+N+G 380/400/415/440V ±10%
FREQUENCIES	50/60 Hz ± 0.5 Hz
MAXIMUM INPUT POWER (0.1 sec max)	130 kVA
AVERAGE CONTINUES POWER	1660 W
LINE IMPEDANCE PER WIRE	0.13 Ohm/400V

- Line supply should come into a power distribution box (PDB) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the PDB.

SUPPLY CHARACTERISTICS

- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...)
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.

GROUND SYSTEM

- Equipotential: the equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE units are located.

CABLES

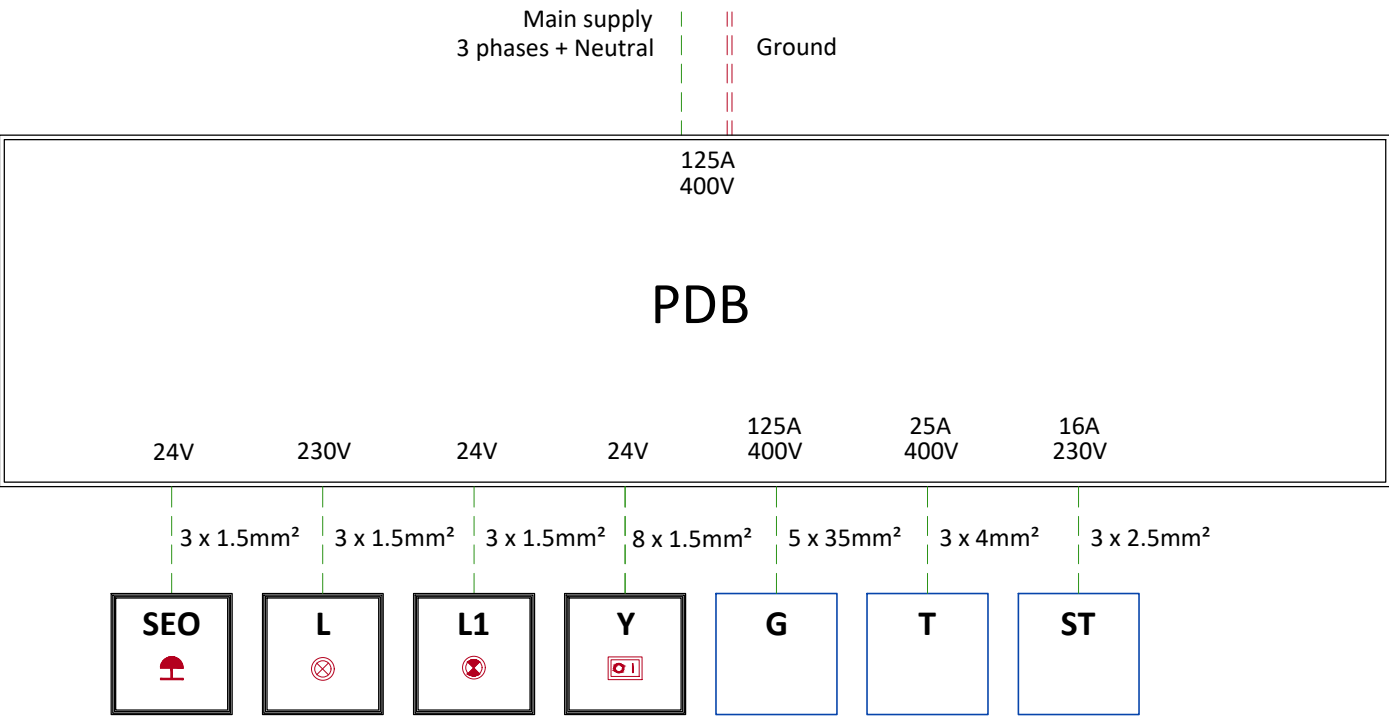
- Power and cable installation must comply with the distribution diagram below.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- Case PDB furnished by GE: The cables for signals and remote control (Y, SEO, L...) will go to PDB with a pigtail length of 1.5m, and will be connected during installation. Each conductor will be identified and isolated (screw connector).

CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof)
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts)
- Protecting cables against temperature shocks
- Replacing cables (cableways should be large enough for cables to be replaced)
- Metal cableways should be grounded.

POWER DISTRIBUTION



- PDB** Power Distribution Box
- Y** System remote-control locked when power OFF, "ON" and "OFF" impulse buttons with indicator lamps red=on / green=off
- L** System ON light - 24V - Located near access doors
- L1** X-Ray ON light - 24V - Located near access doors
- SEO** Emergency OFF, near access doors
- G** Generator
- T** Transformer (Digital Image Processor)
- ST** Starter

- Cable SUPPLIED BY CUSTOMER
- === Equipment SUPPLIED BY CUSTOMER
- ==== Equipment CAN BE ORDERED FROM GE
- Equipment SUPPLIED BY GE

TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

	EXAM ROOM		CONTROL ROOM	
	Min	Max	Min	Max
Temperature	10°C	35°C	10°C	35°C
Relative humidity (1)	30% to 75%		30 to 75%	
Heat dissipation	Stand-by	In use	Stand-by	In use
	0.251 kW	1.625 kW	0.035 kW	0.035 kW

STORAGE CONDITIONS

Temperature	-10°C to 50°C
Relative humidity (1)	10% to 95%

Material should not be stored for more than 90 days.
(1) non-condensing

AIR RENEWAL

According to local standards.

NOTE

In case of using air conditioning systems that have a risk of water leakage it is recommended not to install it above electric equipment or to take measures to protect the equipment from dropping water.

DELIVERY

THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area, adjacent to the X-Ray suite, for delivery and unloading of the GE equipment,
- Ensure that the dimensions of all doors, corridors, ceiling heights, are sufficient to accommodate the movement of GE equipment from the delivery area to the specific rooms of the X-Ray site.
- Ensure that the access route will accommodate the weights of the equipment and any transportation, lifting and rigging equipment,
- If the parking and dock facilities are on property witch does not belong to the customer, ensure that all necessary steps have been taken to ensure their temporary use by GE.

SHIPPING DIMENSIONS AND WEIGHTS IN BOXES

Equipment	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (kg)
Non-Elevating table	2310	1210	1310	580
Generator	1160	1010	2020	470
Image Capture Computer	1160	1060	1000	180
Monitor (2)	1210	810	850	75
Wallstand (option)	2310	860	870	200
Minimum door opening for equipment delivery is 1100x1800, contingent on a 1350x1800 corridor				

TABLE FRONT VIEW

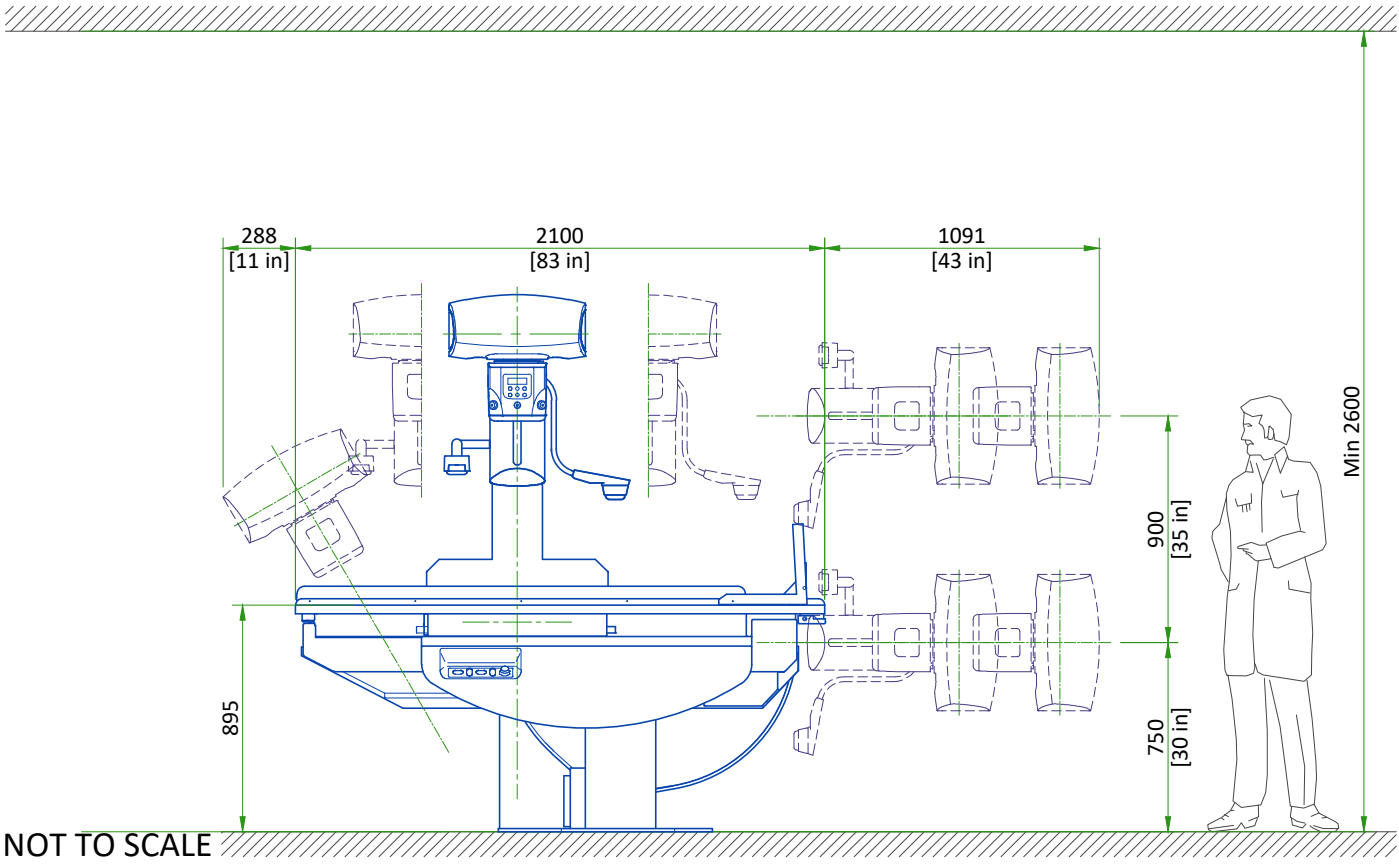
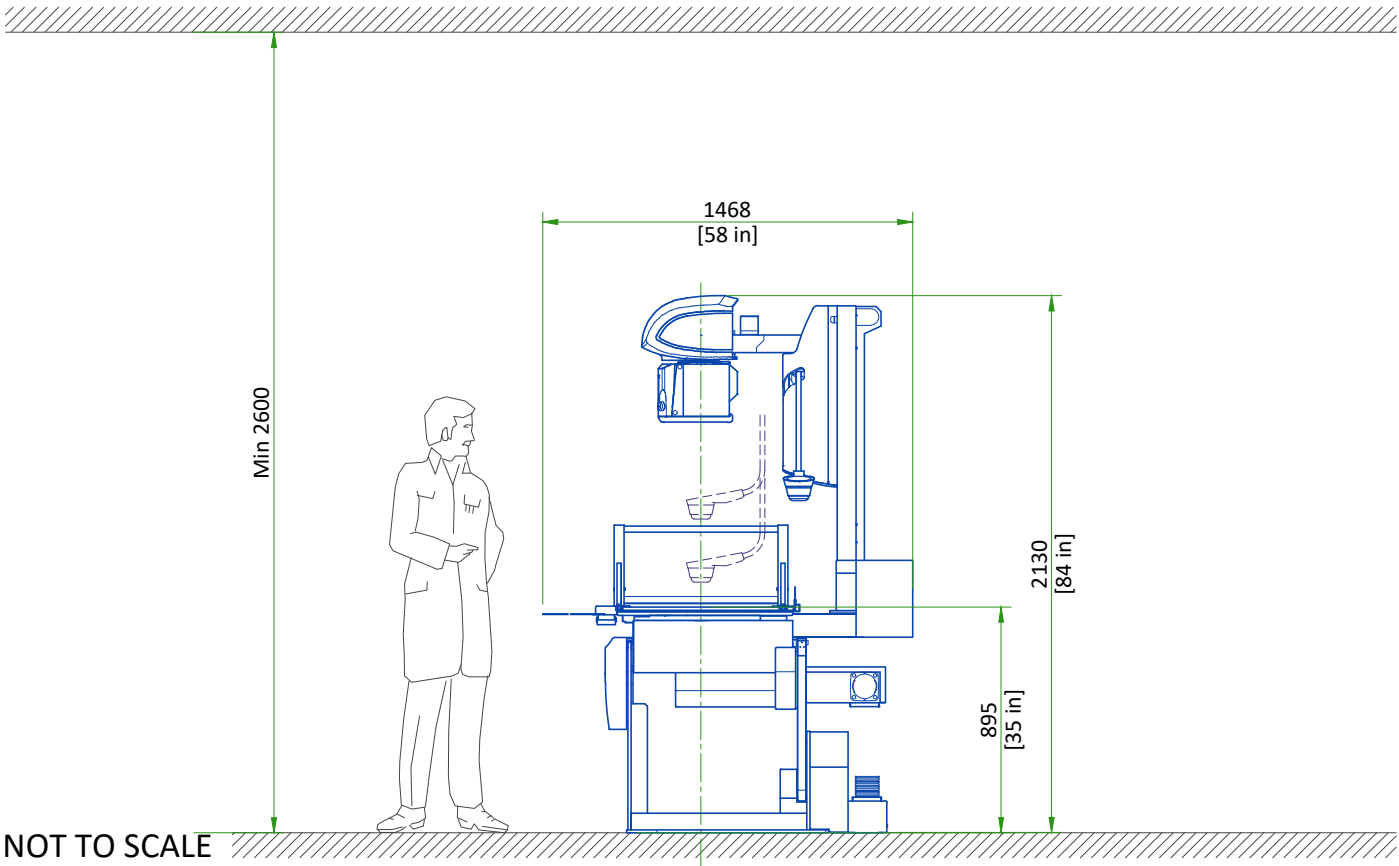
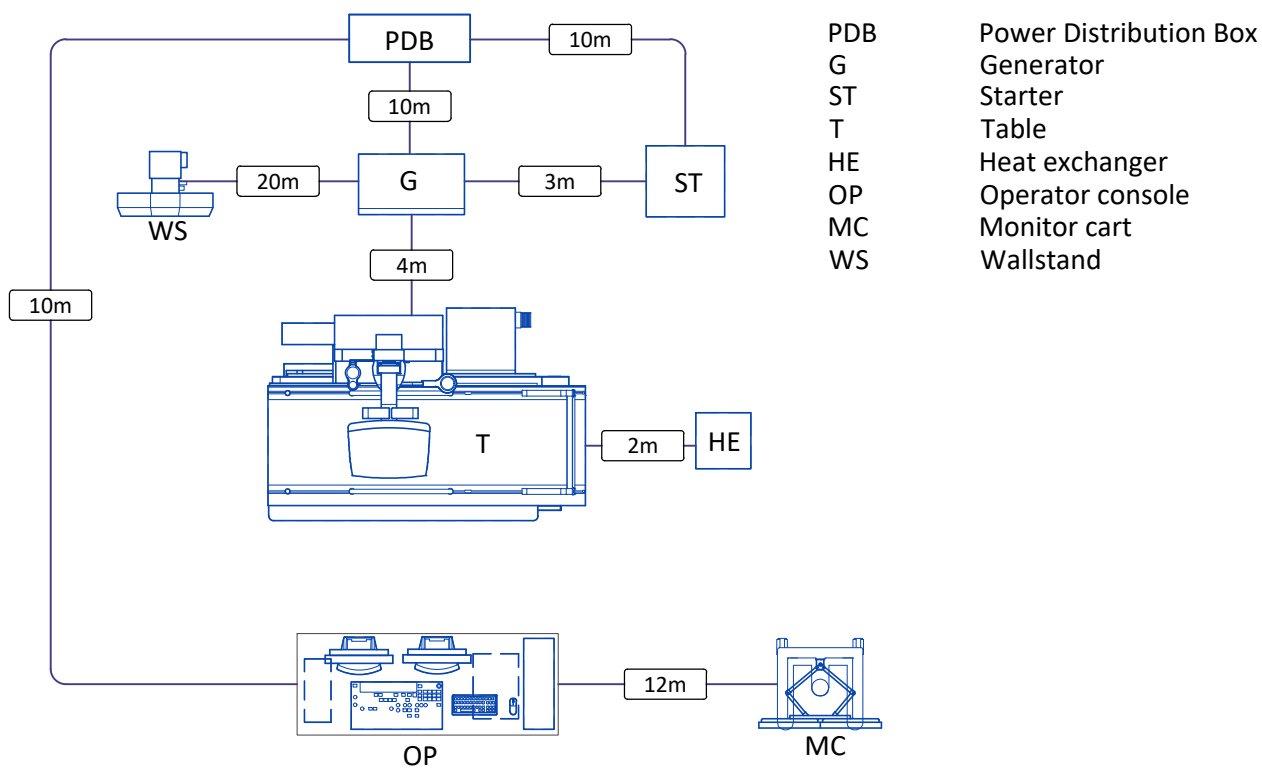


TABLE SIDE VIEW



INTERCONNECTIONS

CONFIGURATION WITH WALLSTAND



DISCLAIMER

GENERAL SPECIFICATIONS

- GE is not responsible for the installation of developers and associated equipment, lighting, cassette trays and protective screens or derivatives not mentioned in the order.
- The final study contains recommendations for the location of GE equipment and associated devices, electrical wiring and room arrangements. When preparing the study, every effort has been made to consider every aspect of the actual equipment expected to be installed.
- The layout of the equipment offered by GE, the dimensions given for the premises, the details provided for the pre-installation work and electrical power supply are given according to the information noted during on-site study and the wishes expressed by the customer.
- The room dimensions used to create the equipment layout may originate from a previous layout and may not be accurate as they may not have been verified on site. GE cannot take any responsibility for errors due to lack of information.
- Dimensions apply to finished surfaces of the room.
- Actual configuration may differ from options presented in some typical views or tables.
- If this set of final drawings has been approved by the customer, any subsequent modification of the site must be subject to further investigation by GE about the feasibility of installing the equipment. Any reservations must be noted.
- The equipment layout indicates the placement and interconnection of the indicated equipment components. There may be local requirements that could impact the placement of these components. It remains the customer's responsibility to ensure that the site and final equipment placement complies with all applicable local requirements.
- All work required to install GE equipment must be carried out in compliance with the building regulations and the safety standards of legal force in the country concerned.
- These drawings are not to be used for actual construction purposes. The company cannot take responsibility for any damage resulting therefrom.

CUSTOMER RESPONSIBILITIES

It is the responsibility of the customer to prepare the site in accordance with the specifications stated in the final study. A detailed site readiness checklist is provided by GE. It is the responsibility of the customer to ensure all requirements are fulfilled and that the site conforms to all specifications defined in the checklist and final study. The GE Project Manager of Installation (PMI) will work in cooperation with the customer to follow up and ensure that actions in the checklist are complete, and if necessary, will aid in the rescheduling of the delivery and installation date.

Prior to installation, a structural engineer of record must ensure that the floor and ceiling is designed in such a way that the loads of the installed system can be securely borne and transferred. The layout of additional structural elements, dimensioning and the selection of appropriate installation methods are the sole responsibility of the structural engineer. Execution of load bearing structures supporting equipment on the ceiling, floor or walls are the customer's responsibility.

RADIO-PROTECTION

Suitable radiological protection must be determined by a qualified radiological physicist in conformation with local regulations. GE does not take responsibility for the specification or provision of radio-protection.

THE UNDERSIGNED, HEREBY CERTIFIES THAT I HAVE READ AND APPROVED THE PLANS IN THIS DOCUMENT.		
DATE	NAME	SIGNATURE

GLOBAL SITE READINESS CHECKLIST (DI)

DOC1809666 Rev. 7
Site Ready Checks at Installation
EHS Site Requirements
Overall access route to the scan room free from obstruction / high hazards.
Enough space to store tools, equipment, parts, install waste and the general area free from obstruction and trip hazards.
Enough necessary facilities for the GE employees available.
No 3rd parties working in the area that may affect the safety of the installation activity.
Area free from any chemical, gas, dust, welding fume exposure and has painting been completed and dry.
All emergency routes identified, signed and clear from obstruction.
Accessible single source lockable panel that LOTO can be applied to for GE equipment installation (MDP and/or PDU).
There are no other conditions or hazards that you have observed or have been made aware of by the customer or contractors on site.
Required for Mechanical Install start
Room dimensions, including ceiling height, for all Exam, Equipment/Technical & Control rooms meets GE specifications.
Ceiling support structure, if indicated on the GE drawing, is in the correct location and at the correct height according to the Original Equipment Manufacturer specifications.
Levelness and spacing has been measured, and is ready for the installation of any GE supplied components.
Overhead support Structure (unistrut) has been confirmed with customer/contractor to meet required GE provided criteria.
Finished ceiling is installed. If applicable ceiling tiles installed per PMI discretion.
Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications.
Entry door threshold meets PIM requirement.
Rooms that will contain equipment, including staging areas if applicable, are construction debris free. Precautions must be taken to prevent debris from entering rooms containing equipment.
Cable ways (floor/wall/ceiling/Access Flooring) are available for installation of GE cables are of correct length and diameter.
Cable ways routes per GE Final drawings and cable access openings areas installed at a time determined by GEHC PM. Surface floor duct can be installed at time of system installation.
Adequate room illumination installed and working.
Customer supplied countertops where GE equipment will be installed are in place.
Required for Calibration Start
HVAC systems Installed, and the site meets minimum environmental operational system requirements.
System power & grounding (PDB/MDP) is available as per GE specifications.
System power & grounding (PDB/MDP) is installed at point of final connection and ready to use. Lock Out Tag Out is available.
PMI to confirm all feeder wires and breaker are size appropriately. EPO installed if needed.
PMI to confirm with electrician all power and signal cables are well terminated ensuring there are no loose connections.
Network outlets installed.
Computer network available and working.
Lead doors and windows complete or scheduled to be installed. If applicable, radiation protection (shielding) finished & radioprotection regulatory approval for installation obtained.

Note: The details shown here are only an extract from DOC1809666. For the complete document please contact your PMI.