

Warning : Do not scale from printed pdf files. GE accepts no responsibility or liability for defective work due to scaling from these drawings.

**SZENT RÓKUS KÓRHÁZ
BUDAPEST
HUNGARY**

Attila Gyurász
+36 70 4366031
Attila.Gyurasz@ge.com



GE Healthcare

**PRE-INSTALLATION REQUIREMENTS FOR
SENOGRAPHE CARE
FINAL STUDY**

Scale	Drawn by	Verified by	S.O.	PIM Ref & Rev	Date	Drawing Rev
1:50	B. Urbán	R. Havas	-	5160036-12-8EN Rev1	27/OCT/2015	A

MAM-02382-001.DWG
01/07

First issue drawing
MODIFICATIONS

This plan is made to suggest a typical location of GE equipment and associated devices, electrical wiring details and room arrangements. While preparing this layout, every effort has been made to meet the installation requirements of the actual equipment and of a site. GE does not take responsibility for any damages resulting from changes on drawings made by others. This drawing shall not be used for construction purposes.

- 01 - Cover Sheet
- 02 - Equipment Layout
- 03 - Floor Layout & Electrical Layout
- 04 - Floor & Wall Structural Details
- 05 - Power and Network Requirements
- 06 - HVAC and Environment
- 07 - Interconnections, Delivery and Disclaimer

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GE cannot accept responsibility for any damage due to the partial use of GE final issue drawings, however caused.

EQUIPMENT LAYOUT

ITEM	DESCRIPTION	DIMENSIONS LxWxH (mm)	WEIGHT (kg)
1	GANTRY	1842x1273x2430	418
2	CONTROL STATION	710x400x225	216.8
3	GENERATOR CABINET	437x640x1330	180
4	POWER DISTRIBUTION BOX (PDB)	500x270x700	42
5	MAMMOGRAPHY AND BIOPSY CHAIR	-	73
6	IDI MAMMO WORKSTATION	-	62

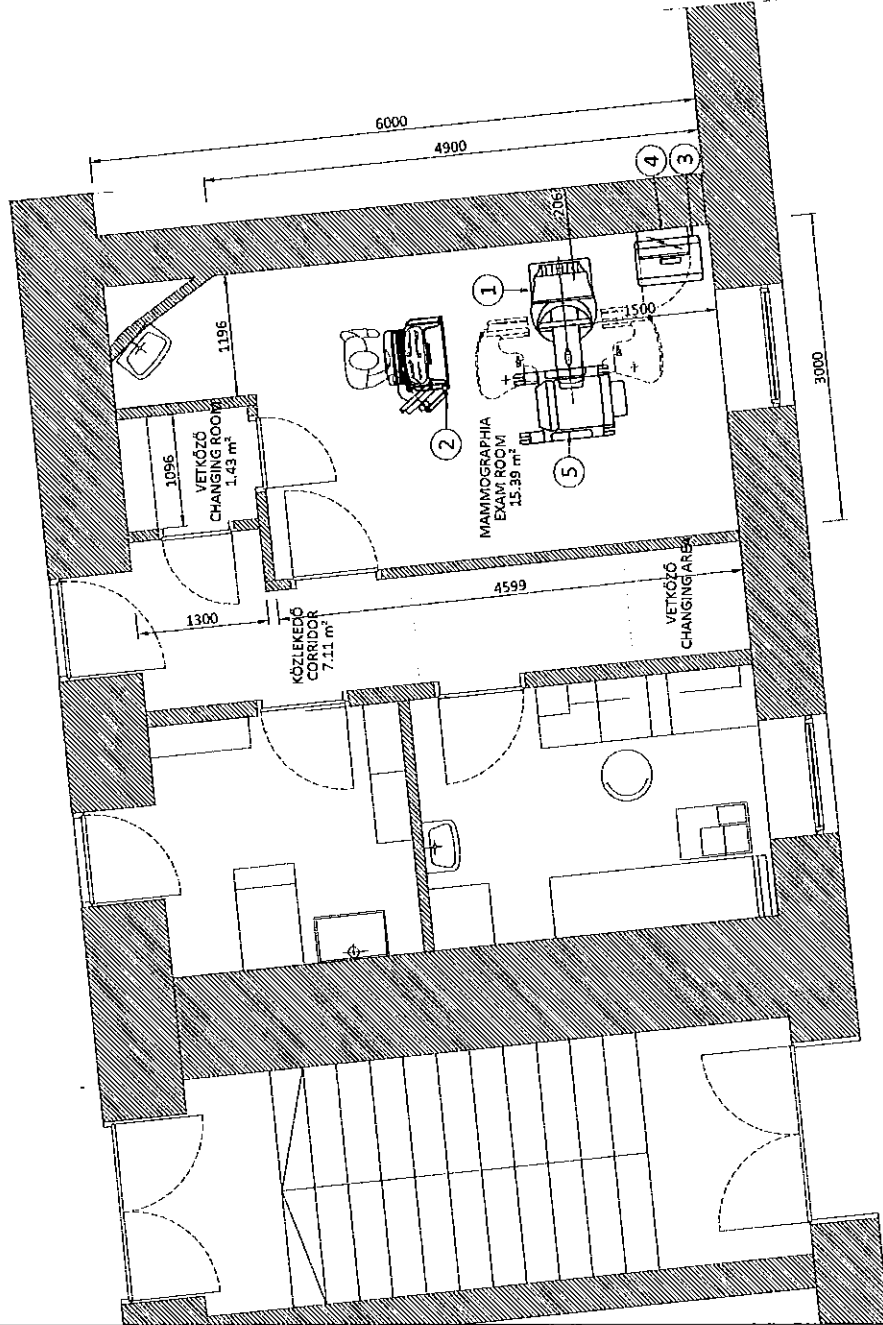
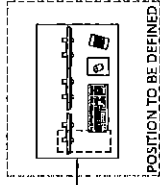
WALL - ACCORDING TO RECEIVED DRAWING

EXAMI ROOM HEIGHT

SLAB TO SLAB HEIGHT

FALSE CEILING HEIGHT

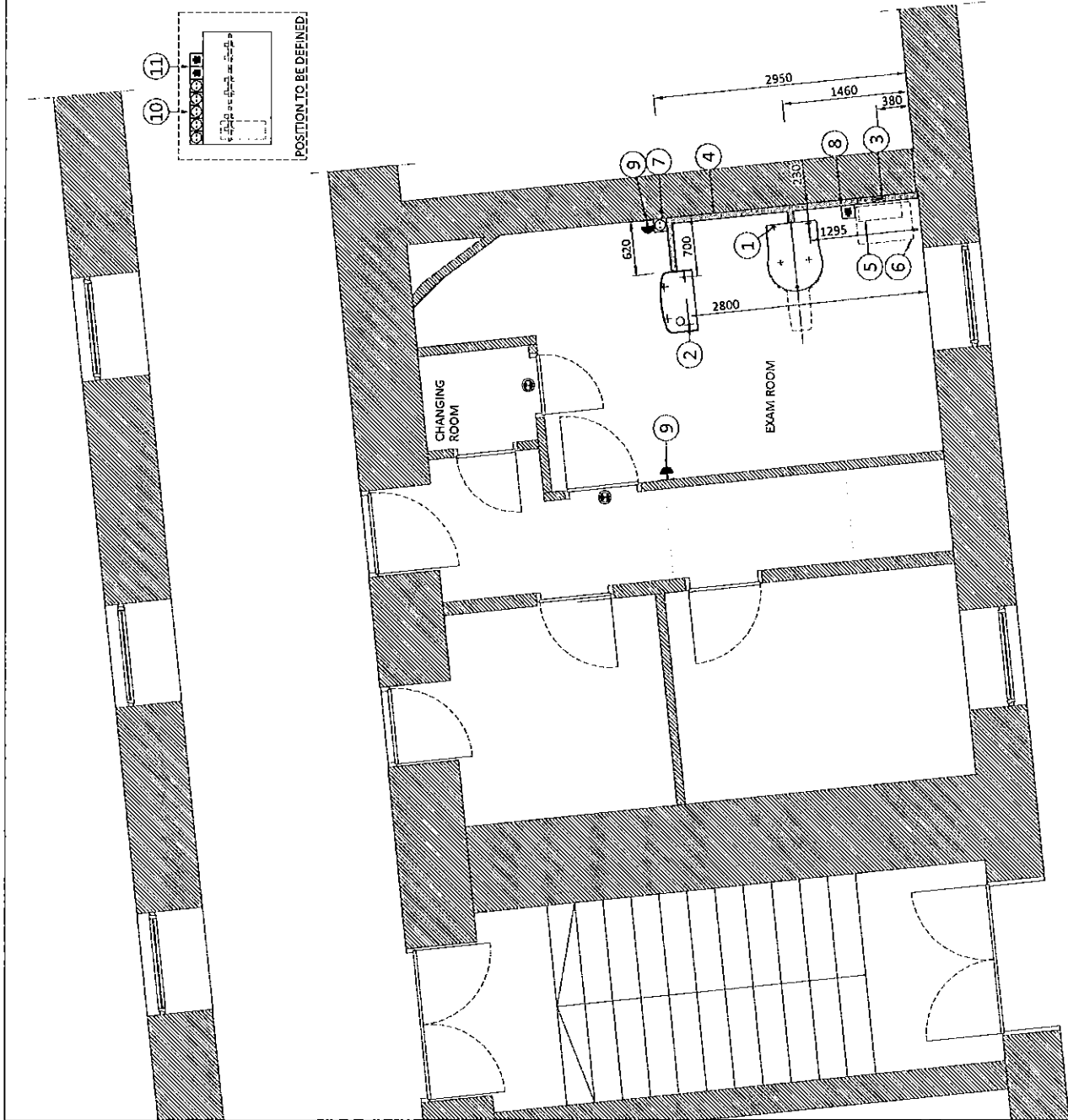
MIN. 2.3 m



FLOOR & ELECTRICAL LAYOUT

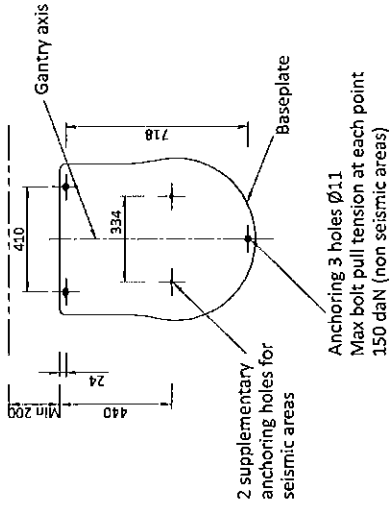
ITEM	QTY	DESCRIPTION
1		Gantry anchoring (see Floor & Wall Struct Details)
2		Control station anchoring (see Floor & Wall Struct Details)
3		150X70 vertical duct from floor to PDB
4		150X70 horizontal duct
5		Power Distribution Box (PDB)
6		Generator Cabinet (G)
7	1	Electrical outlet 10/16A-G - 230V
8	1	RJ45 network socket
9	2	System emergency off (SEO), located at 1.50m above floor near access doors
10	5	Electrical outlets 10/16A-G - 230V, for IDI MW/S (linked to the hospital UPS or through a dedicated UPS of 1kVA single phase (if available))
11	2	RJ45 network socket IDI MW/S
12	2	XR ON lamp (Li) - 24V, located near access doors

Wall duct



ANCHORING TO THE FLOOR

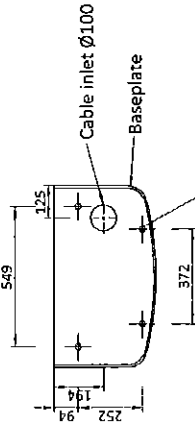
GANTRY



2 supplementary anchoring holes for seismic areas

Anchoring 3 holes Ø11
Max bolt pull tension at each point
150 daN (non seismic areas)

CONTROL STATION



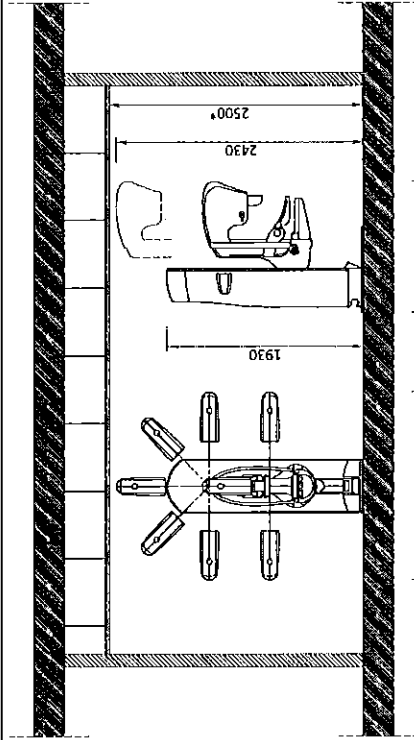
Anchoring 4 holes Ø14
Max bolt pull tension at each point
580 daN (non seismic areas)

NOTE :

- Anchors supplied by GE (For non-seismic areas only)
- Min floor thickness 105 mm
- The floor surface must remain horizontal and flat within ±2.5 mm per meter after installation of the Gantry and the Control Station.

NOT TO SCALE

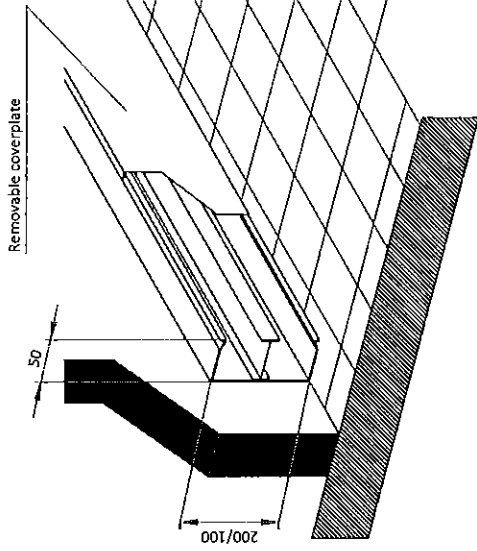
ROOM HEIGHT REQUIREMENTS



LIFT TRAVEL LIMIT RANGE	CORRESPONDING TUBE HEAD HEIGHT	RECOMMENDED MINIMUM CEILING HEIGHT *	CORRESPONDING BUCKY PLANE MAXIMUM HEIGHT
650 mm	2230 mm	2300 mm	1295 mm
750 mm	2330 mm	2400 mm	1395 mm
850 mm (default setting)	2430 mm	2500 mm	1495 mm

CABLEWAYS IN WALL DUCT

CABLES RUN IN WALL DUCT



NOT TO SCALE

POWER AND NETWORK REQUIREMENTS

POWER SUPPLY

POWER SUPPLY	Single phase + Ground
VOLTAGES	200V 208V 220V 240V ± 10%
MOMENTARY MAXIMUM POWER	9 kVA/6 Sec max
MAXIMUM POWER IN STAND BY	1.5 kVA
FREQUENCIES	50/60Hz ± 1Hz
POWER FACTOR	0.6
LINE RESISTANCE PER WIRE	0.28 Ohm/200V 0.30 Ohm/208V 0.34 Ohm/220V 0.40 Ohm/240V

- TNS neutral point connection recommended (TNC neutral point connection must not be used)
- Power 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).
- The ligne supply cable from the generator must be internally and permanently connected to the hospital power distribution box and cannot be externally connected to the Power Distribution Box via a plug. The internal and permanent connection must be made in a way such the line supply cable can only be disconnected by use of a tool.

CABLEWAYS

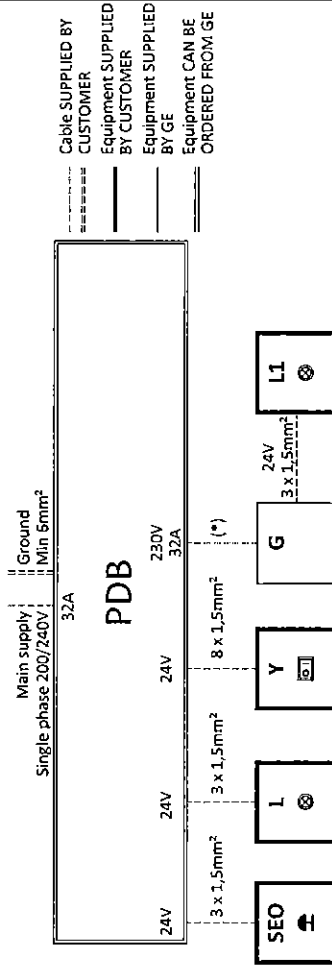
- The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to :
- Protecting cables against water (cableways should be waterproof)
 - Protecting cables against abnormal temperatures (proximity to heating pipes or ducts)
 - Protecting cables against temperature shocks
 - Replacing cables (cableways should be large enough for cables to be replaced). Metal cableways should be grounded.

NETWORK REQUIREMENTS

The Control Station and any optional equipment provided are to be connected together as a hospital network.

POWER DISTRIBUTION

NOTE : Depending on local regulations fuses may be required on the incoming supply lines



PDB Power Distribution Box for Mammography System (Can be ordered as an option from GE)

SEO System emergency OFF, located at 1.50m above floor

Y System remote control, locked when power OFF

L "ON" and "OFF" impulse buttons with indicator lamps, red=ON / green=OFF, located at 1.50m above floor

L1 System ON lamp 24V, located near access doors

G XRay ON light 24V, located near access doors

G Generator cabinet

(*) Cable 3 x AWG10 (5.32mm²), length 6.5m supplied with the system.

(To be supplied by Customer if distance between PDB and Generator cabinet is above 6.5m)

Cable SUPPLIED BY CUSTOMER
Equipment SUPPLIED BY CUSTOMER
Equipment SUPPLIED BY GE
Equipment CAN BE ORDERED FROM: GE

TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

Environmental conditions must ensure patient and operator comfort and must be maintained within the range below:

Temperature	Min 15°C	Recommended 23°C ± 3°C	Max 35°C
Temperature gradient	≤ 1.5°C/min		
Relative humidity (non-condensing)	10% to 80%		
System heat dissipation	Standby 0.75 kW	Max 1 kW	

STORAGE CONDITIONS

Temperature	-20°C to +50°C
Temperature gradient	≤ 4.5°C/h
Relative humidity (non-condensing)	5 to 95%

Material should not be stored for more than 90 days.

HEAT DISSIPATION DETAILS

DESCRIPTION	HEAT DISSIPATION (kW)
Mammo System	Max 1 - Standby 0.75
OPTIONS	
IDI Mammo Workstation	1.30
IDI Mammo Doc Station	0.50
IDI Collab Server (*)	0.65
IDI DICOM Shuttle (*)	0.65
Mammo Sensory Suite	0.12
	32" Monitor 0.11
Seno Advantage	0.75

(*) can be located in hospital computer room

AIR RENEWAL:

Refer to local standards

CONNECTIVITY REQUIREMENTS

Broadband Connections are necessary during the installation process and going forward to ensure full support from the Engineering Teams for the customers system. Maximum performance and availability for the customers system is maintained and closely monitored during the lifetime of the system. Proactive and reactive maintenance is available utilising the wide range of digital tools using the connectivity solutions listed below:

- Site-to-Site VPN/GE Solution
- Site-to-Site VPN/Customer Solution
- Connection through Dedicated Service Network
- Internet Access - connectivity for InSite 2.0

The requirements for these connectivity solutions are explained in the broadband solutions catalogue (separate document).

ENVIRONMENTAL SPECIFICATIONS

MAGNETIC INTERFERENCE

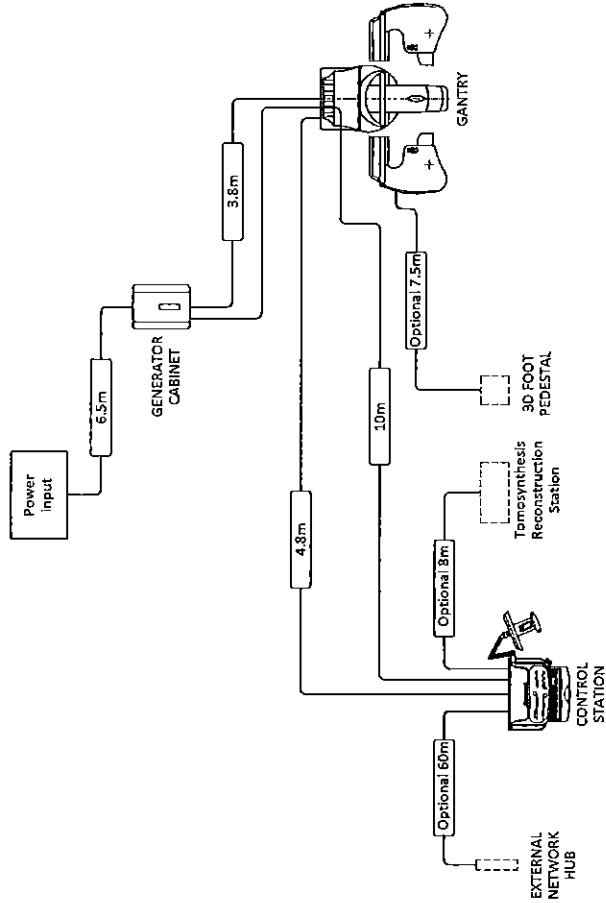
In order to avoid interference on the Senographe system, static field limits from the surrounding environment are specified.

- Static field is specified as less than 1 Gauss in the Examination room (Gantry room), and the Control Area (for all Subsystems).

LIGHT REQUIREMENTS

In order to obtain a room brightness value of 100 lux or less for correct viewing of monitor images, the room lights must be equipped with a dimmer switch. Shades and/or drapes must be fitted to windows.

INTERCONNECTIONS LENGTH



DELIVERY

THE CUSTOMER MUST :

- Provide an area, adjacent to the GE 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 GE 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 which does not belong to the customer, ensure that all necessary steps have been taken to ensure their temporary use by GE.

DIMENSIONS				
	CRATE 1	CRATE 2	CRATE 3	CRATE 4
DEPTH (mm)	2066	1110	872	720
WIDTH (mm)	848	770	2270	1300
HEIGHT (mm)	2292	1850	260	1975
WEIGHT (kg)	641	210.5	104.4	147

DELIVERY WITH DOLLIES

Minimum dimensions for door :
 Width 700 mm
 Height with gantry covers 2020 mm
 Height without gantry covers 1897 mm

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

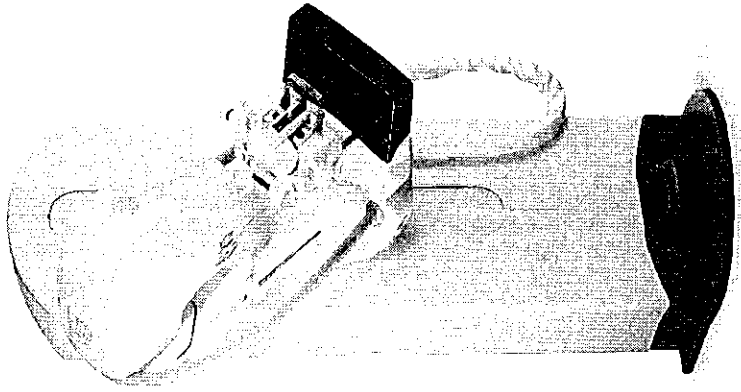
- It is the responsibility of the customer to prepare the site in accordance with the specifications stated in the final study. A detailed site readiness checklist is provided by GE. It is the responsibility of the customer to ensure all requirements are fulfilled and that the site conforms to all specifications 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 conformance 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



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BUDAPEST
HUNGARY**

REV	DATE	DESCRIPTION
A	29/OCT/2015	First issue drawing

MODIFICATIONS
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**PRE-INSTALLATION REQUIREMENTS FOR
SENOGRAPHIC CARE
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1:50	B. Urbán	R. Havas	-	5160036-12-8EN Rev1	27/OCT/2015	A

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EQUIPMENT LAYOUT

ITEM	DESCRIPTION	DIMENSIONS LxWxH (mm)	WEIGHT (kg)
1	GANTRY	1842x1275x2430	418
2	CONTROL STATION	710x400x225	216.8
3	GENERATOR CABINET	437x640x1330	180
4	POWER DISTRIBUTION BOX (PDB)	500x270x700	42
5	MAMMOGRAPHY AND BIOPSY CHAIR	-	73
6	ID. MAMMOGRAPHY STATION	-	62

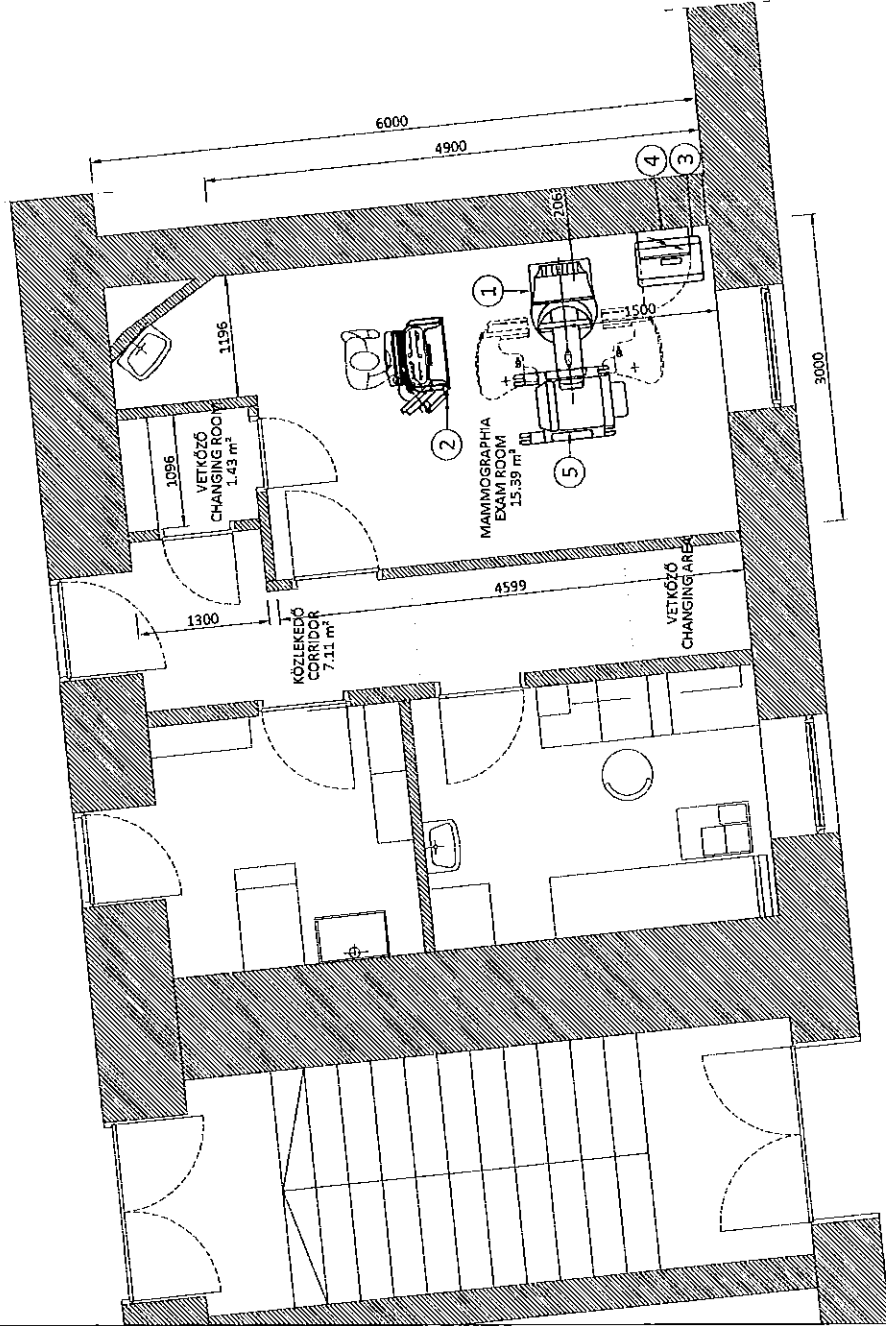
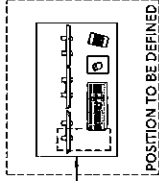
WALL - ACCORDING TO RECEIVED DRAWING

EXAM ROOM HEIGHT

SLAB TO SLAB HEIGHT

FALSE CEILING HEIGHT

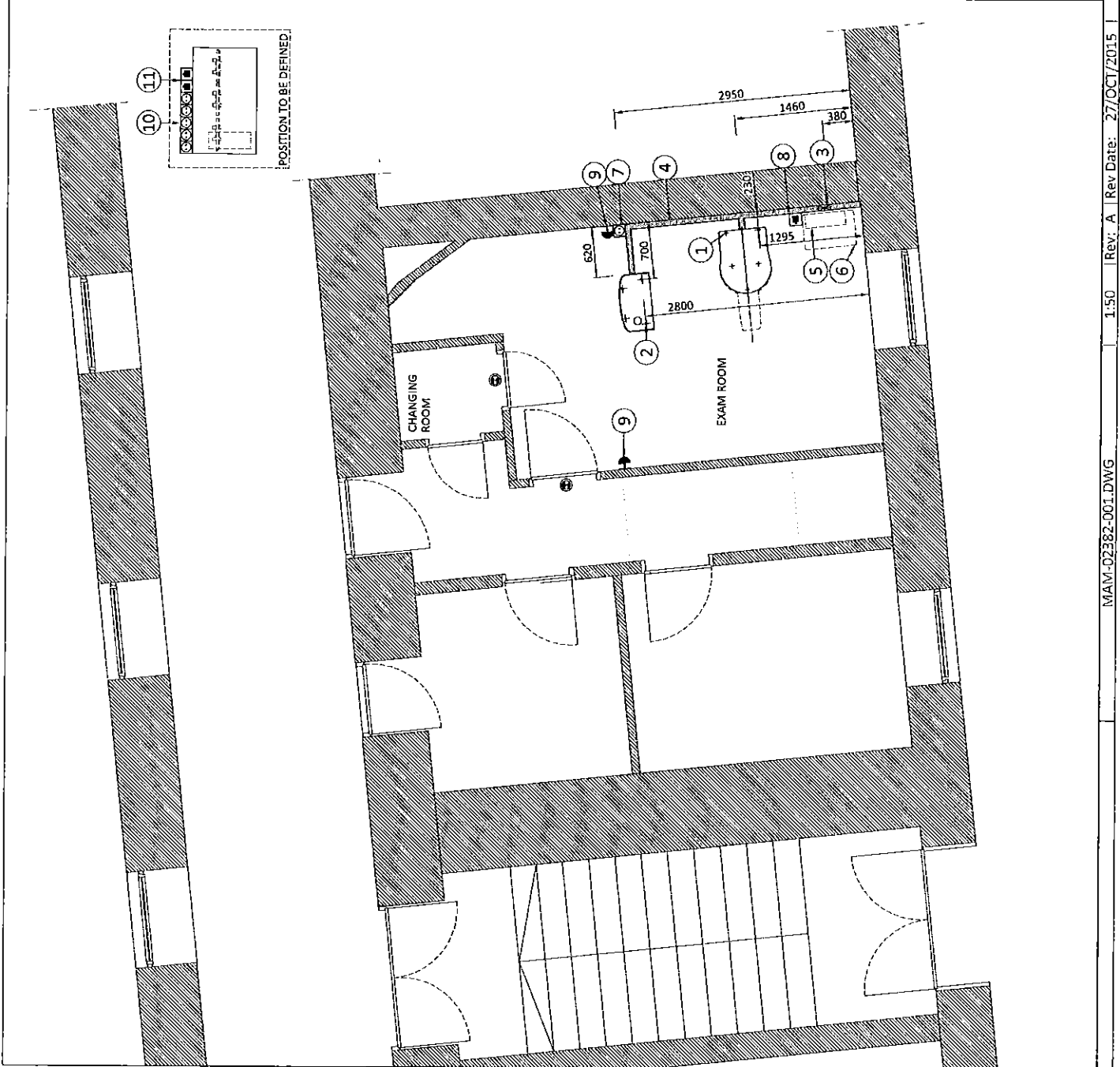
MIN. 2.3 m



FLOOR & ELECTRICAL LAYOUT

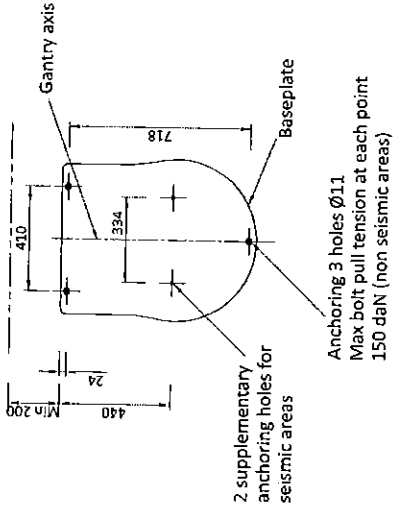
ITEM	QTY	DESCRIPTION
1		Gantry anchoring (see Floor & Wall Struct Details)
2		Control station anchoring (see Floor & Wall Struct Details)
3		150x70 vertical duct from floor to PDB
4		150x70 horizontal duct
5		Power Distribution Box (PDB)
6		Generator Cabinet (G)
7	1	Electrical outlet 10/15A+G - 230V
8	1	RJ45 network socket
9	2	System emergency off (SECO), located at 1.50m above floor near access doors
10	5	Electrical outlets 10/15A+G - 230V, for IDI MWWS linked to the hospital UPS or through a dedicated UPS of 1kVA single phase (if available)
11	2	RJ45 network socket (IDI MWWS)
12	2	XR ON lamp (L1) - 24V, located near access doors

Wall duct



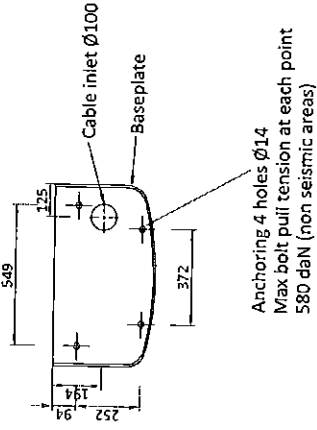
ANCHORING TO THE FLOOR

GANTRY



Anchoring 3 holes $\varnothing 11$
Max bolt pull tension at each point
150 daN (non seismic areas)

CONTROL STATION



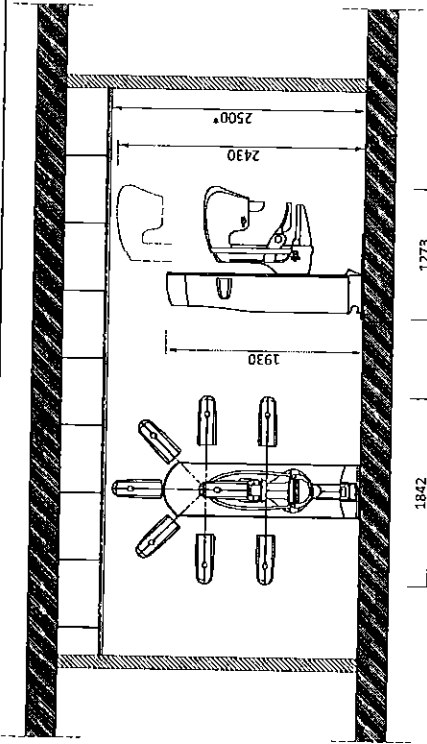
Anchoring 4 holes $\varnothing 14$
Max bolt pull tension at each point
580 daN (non seismic areas)

NOTE :

- Anchors supplied by GE (For non-seismic areas only)
- Min floor thickness 105 mm
- The floor surface must remain horizontal and flat within ± 2.5 mm per meter after installation of the Gantry and the Control Station.

NOT TO SCALE

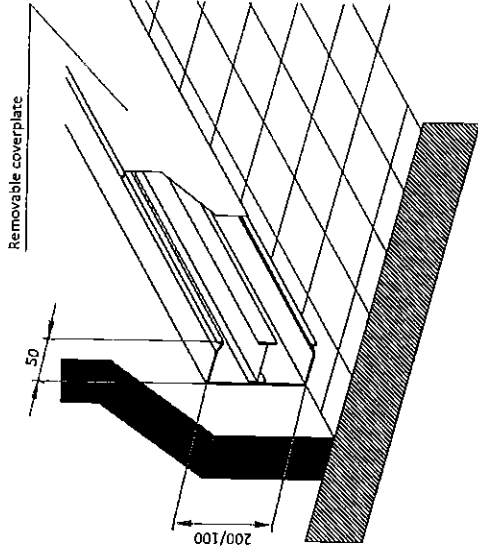
ROOM HEIGHT REQUIREMENTS



LIFT TRAVEL LIMIT RANGE	CORRESPONDING TUBE HEAD HEIGHT	RECOMMENDED MINIMUM CEILING HEIGHT *	CORRESPONDING BUCKY PLANE MAXIMUM HEIGHT
650 mm	2230 mm	2300 mm	1295 mm
750 mm	2330 mm	2400 mm	1395 mm
850 mm (default setting)	2430 mm	2500 mm	1495 mm

CABLEWAYS IN WALL DUCT

CABLES RUN IN WALL DUCT



NOT TO SCALE

POWER AND NETWORK REQUIREMENTS

POWER SUPPLY

POWER SUPPLY	Single phase + Ground
VOLTAGES	200V Z08V / 220V 240V ± 10%
MOMENTARY MAXIMUM POWER	9 kVA/6 Sec.max
MAXIMUM POWER IN STAND BY	1.5 kVA
FREQUENCIES	50/60Hz ± 1Hz
POWER FACTOR	0.6
LINE RESISTANCE PER WIRE	0.28 Ohm/200V, 0.30 Ohm/208V 0.34 Ohm/220V, 0.40 Ohm/240V

- TNS neutral point connection recommended (TNC neutral point connection must not be used)
- Power 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).
- The ligne supply cable from the generator must be internally and permanently connected to the hospital power distribution box and cannot be externally connected to the Power Distribution Box via a plug. The internal and permanent connection must be made in a way such the line supply cable can only be disconnected by use of a tool.

CABLEWAYS

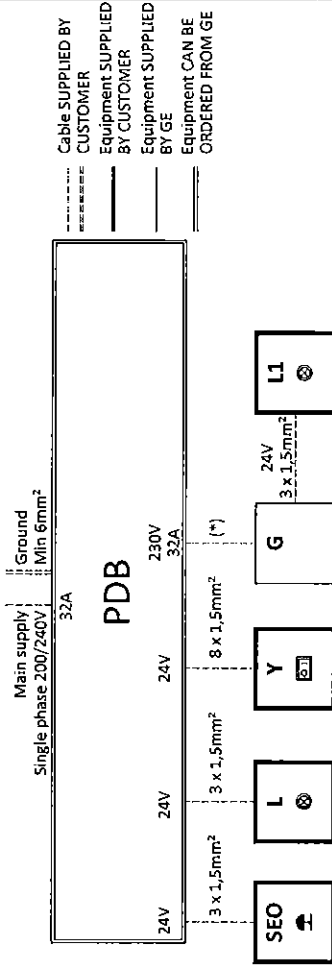
- The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to :
- Protecting cables against water (cableways should be waterproof)
 - Protecting cables against abnormal temperatures (proximity to heating pipes or ducts)
 - Protecting cables against temperature shocks
 - Replacing cables (cableways should be large enough for cables to be replaced). Metal cableways should be grounded.

NETWORK REQUIREMENTS

The Control Station and any optional equipment provided are to be connected together as a hospital network.

POWER DISTRIBUTION

NOTE : Depending on local regulations fuses may be required on the incoming supply lines



- PDB Power Distribution Box for Mammography System (Can be ordered as an option from GE)
- SEO System emergency OFF, located at 1.50m above floor
- Y System remote control, locked when power OFF
- L "ON" and "OFF" impulse buttons with indicator lamps, red=ON / green=OFF, located at 1.50m above floor
- L1 System ON lamp 24V, located near access doors
- G XRay ON light 24V, located near access doors
- G Generator cabinet
- (*) Cable 3 x AWG10 (5.32mm²), length 6.5m supplied with the system.
(To be supplied by Customer if distance between PDB and Generator cabinet is above 6.5m)

TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

Environmental conditions must ensure patient and operator comfort and must be maintained within the range below:

Temperature	Min	Recommended	Max
	15°C	23°C ± 3°C	35°C
Temperature gradient	≤ 1.5°C/min		
Relative humidity (non-condensing)	10% to 80%		
System heat dissipation	Standby	Max	
	0.75 kW	1 kW	

STORAGE CONDITIONS

Temperature	-20°C to +50°C
Temperature gradient	≤ 4.5°C/h
Relative humidity (non-condensing)	5 to 95%

Material should not be stored for more than 90 days.

HEAT DISSIPATION DETAILS

DESCRIPTION	HEAT DISSIPATION (kW)	
Mammo System	Max 1 - Standby 0.75	
OPTIONS		
IDI Mammo Workstation	1.30	
IDI Mammo Doc Station	0.50	
IDI Collab Server (*)	0.65	
IDI DICOM Shuttle (*)	0.65	
Mammo Sensory Suite	46" Monitor	0.12
	32" Monitor	0.11
Seno Advantage	0.75	
(*) can be located in hospital computer room.		

AIR RENEWAL:

Refer to local standards

CONNECTIVITY REQUIREMENTS

Broadband Connections are necessary during the installation process and going forward to ensure full support from the Engineering Teams for the customers system. Maximum performance and availability for the customers system is maintained and closely monitored during the lifetime of the system. Proactive and reactive maintenance is available utilising the wide range of digital tools using the connectivity solutions listed below:

- Site-to-Site VPN/GE Solution
- Site-to-Site VPN/Customer Solution
- Connection through Dedicated Service Network
- Internet Access - connectivity for InSite 2.0

The requirements for these connectivity solutions are explained in the broadband solutions catalogue (separate document).

ENVIRONMENTAL SPECIFICATIONS

MAGNETIC INTERFERENCE

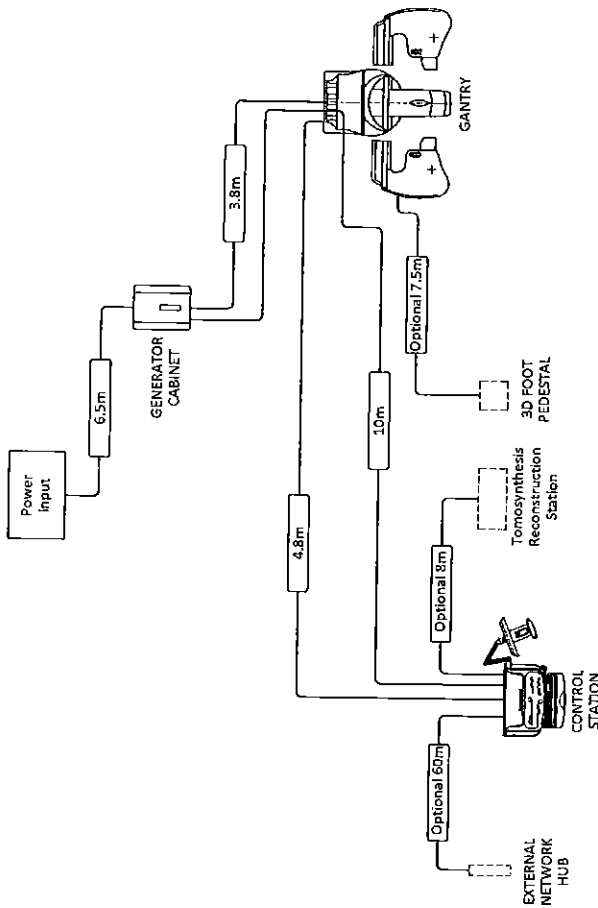
In order to avoid interference on the Senographe system, static field limits from the surrounding environment are specified.

- Static field is specified as less than 1 Gauss in the Examination room (Gantry room), and the Control Area (for all Subsystems).

LIGHT REQUIREMENTS

In order to obtain a room brightness value of 100 lux or less for correct viewing of monitor images, the room lights must be equipped with a dimmer switch. Shades and/or drapes must be fitted to windows.

INTERCONNECTIONS LENGTH



DELIVERY

THE CUSTOMER MUST :

- Provide an area, adjacent to the GE 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 GE 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 which does not belong to the customer, ensure that all necessary steps have been taken to ensure their temporary use by GE.

DIMENSIONS			
	CRATE 1	CRATE 2	CRATE 3
DEPTH (mm)	2066	1110	872
WIDTH (mm)	848	770	2270
HEIGHT (mm)	2292	1850	260
WEIGHT (kg)	641	210.5	104.4
			147

DELIVERY WITH DOLLIES

Minimum dimensions for door :

Width 700 mm

Height with gantry covers 2020 mm

Height without gantry covers 1897 mm

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 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 conformance 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