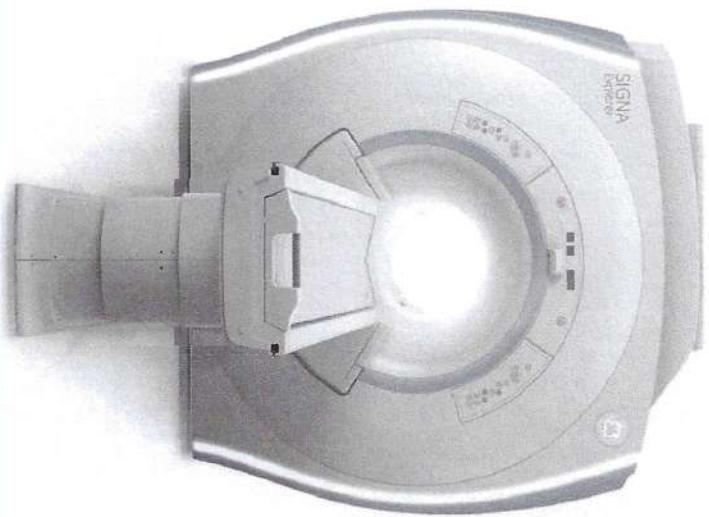


| REV | DATE | Alternative version of MRI-B329270-FIN-00-A (DC-382958) | | | | | |
|--------|-------|--|-------------|--------------------------|-------------|-------------|-----|
| | | MODIFICATIONS | | | | | |
| | | 01 - Cover Sheet 02 - Equipment Layout 03 - Magnetic Fringe Field 04 - Equipment Layout Top View With Magnetic Field 05 - Equipment Layout Side View With Magnetic Field 06 - Equipment Layout Front View With Magnetic Field 07 - Floor - Electrical Layout 08 - Floor Structural Details 09 - Power Requirements 10 - Power Distribution 11 - Detailed PDB Schematics 12 - Grounding 13 - HVAC 14 - HVAC - Chilled Water - Ceiling Layout 15 - Chilled water details 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 dester and preparation. 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. | | | | | |
| | |  GE Healthcare Efosa Amayo - Efosa.amayo@ge.com | | | | | |
| | | SIGNA CREATOR FINAL STUDY | | | | | |
| Format | Scale | Drawn by | Verified by | Concession | S.O. (GON) | PIM Manual | Rev |
| A3 | 1:50 | M. Marothy | N. Sadoud | - | 5299094 | 5538857-1EN | 13 |
| | | | | File Name | Date | Sheet | |
| | | | | MRI-B329270-FIN-01-A.DWG | 23/MAY/2023 | 01/27 | |



John C. Spangler

SIGNA CREATOR
FINAL STUDY

SUDABELT MEDICAL CO LTD

LAGOS
NIGERIA

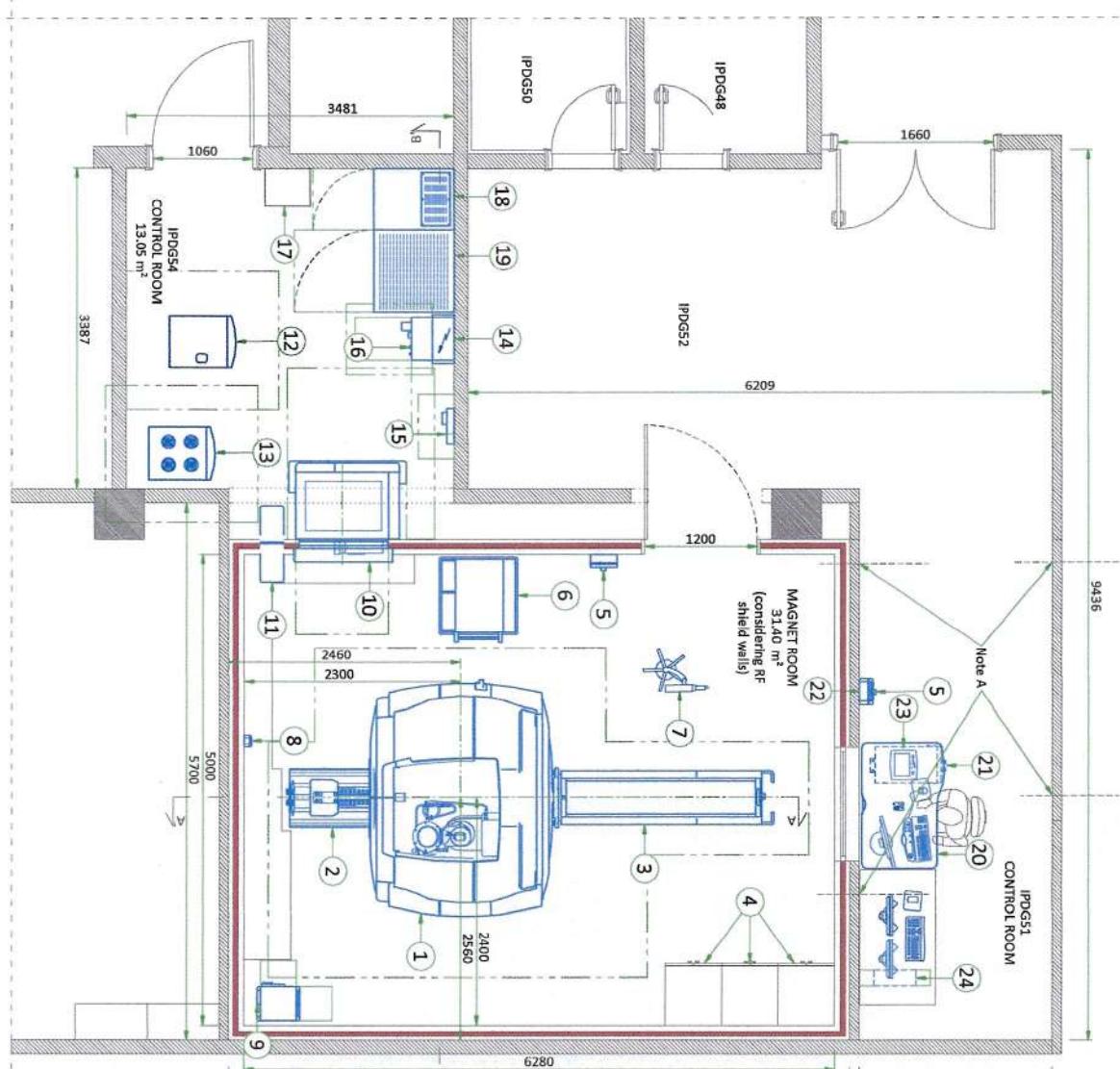
Efosa Amayo

- 13 - HVAC
- 14 - HVAC - Chilled water - Ceiling Layout
- 15 - Chilled water details

A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference incomplete documentation required for site design and preparation.

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EQUIPMENT LAYOUT



| ITEM | DESCRIPTION | DIMENSIONS LxWxH (mm) | WEIGHT (kg) |
|------|--|-----------------------|-------------|
| 1 | MAGNET (MAG) | 1938x2459x2383 | 5320 |
| 2 | REAR PEDESTAL (PED) | 853x510x955 | 132 |
| 3 | FLIXED PATIENT TABLE (PT) | 2134x572x965 | 136 |
| 4 | FURNITURE FOR COILS (NOT SUPPLIED BY GE) | 650x600x1200 | - |
| 5 | MAGNET RUNDOWN UNIT (MRU) | 287x206x172 | 3.2 |
| 6 | PHANTOM SET STORAGE CABINET (SPN) | 825x859x1524 | 136 |
| 7 | INJECTOR ON PEDESTAL | - | - |
| 8 | OXYGEN REMOTE SENSOR (OMZ) | 121x121x78 | 0.9 |
| 9 | BLOWER BOX (M65) | 381x353x558 | 21 |
| 10 | SYSTEM CABINET (SC) | 969x1350x2200 | 890 |
| 11 | PENETRATION PANEL (PP) | 250x800x750 | - |
| 12 | WATER CHILLER FOR BRM GRADIENT COIL (WCL) | 544x705x811 | 131 |
| 13 | WATER CHILLER FOR SYSTEM CABINET (WC2) | 544x405x811 | 100 |
| 14 | MAIN DISCONNECT PANEL (MDP) | 229x508x1067 | 61 |
| 15 | MAGNET MONITOR (MON) | 381x260x127 | 4.5 |
| 16 | CRYOCOOLER COMPRESSOR (CRY) | 450x533x590.5 | 120 |
| 17 | 4.6 kVA STEP DOWN TRANSFORMER FOR WCI (NOT SUPPLIED BY GE) | - | - |
| 18 | FULL UPS 80 kVA | - | - |
| 19 | FULL UPS BATTERY CABINET | - | - |
| 20 | OPERATOR WORKSPACE (OW) | 1300x815x750 | 57 |
| 21 | OPERATOR CONSOLE (GOC) | - | 65 |
| 22 | OXYGEN MONITOR (OMX) | 214x268x150 | 4 |
| 23 | INJECTOR CONTROL | - | - |
| 24 | ADVANTAGE WORKSTATION (AW) | 445x159x386 | 31.7 |

NOTES
A) Magnet access

MAGNETIC PROXIMITY LIMITS

| Gauss (mT) Limit | Equipment |
|--------------------|--|
| 0.5 gauss (0.05mT) | Nuclear camera |
| 1 gauss (0.1mT) | Position Emission Tomography scanner, Linear Accelerator, Cyclotrons, Accurate measuring scale, Image intensifiers, Bone Densitometers, Video display (tube), CT scanner, Ultrasound, Lithotriptor, Electron microscope, Digital X-Ray |
| 3 gauss (0.3mT) | Power transformers, Main electrical distribution, Transformers |
| 5 gauss (0.5mT) | Cardiac pacemakers, Neurostimulators, Blastoinduction devices |
| 10 Gauss (1mT) | Magnetic computer media, Line printers, Film processor, X-ray tubes, Emergency generators, Commercial laundry equipment, Food preparation area, Water cooling equipment, HVAC equipment, Major mechanical equipment room, Credit cards, watches and clocks, Air conditioning equipment, Fuel storage tanks, Motors greater than 5 horsepower |
| 50 gauss (5mT) | Metal detector for screening, LCD panels, Telephones |
| No Limit | Digital Detectors |

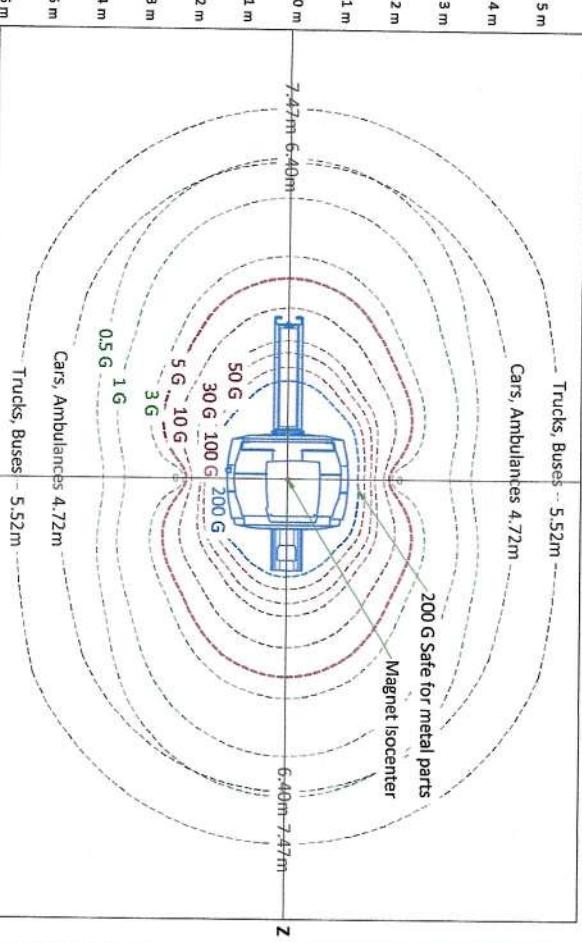
The customer must provide detail defining ferrous material below the magnet to the Project Manager so the GEM

STEEL MASS LIMITS TO MAGNET ISOCENTER (3x3 m [10x10 ft] AREA UNDER MAGNET)

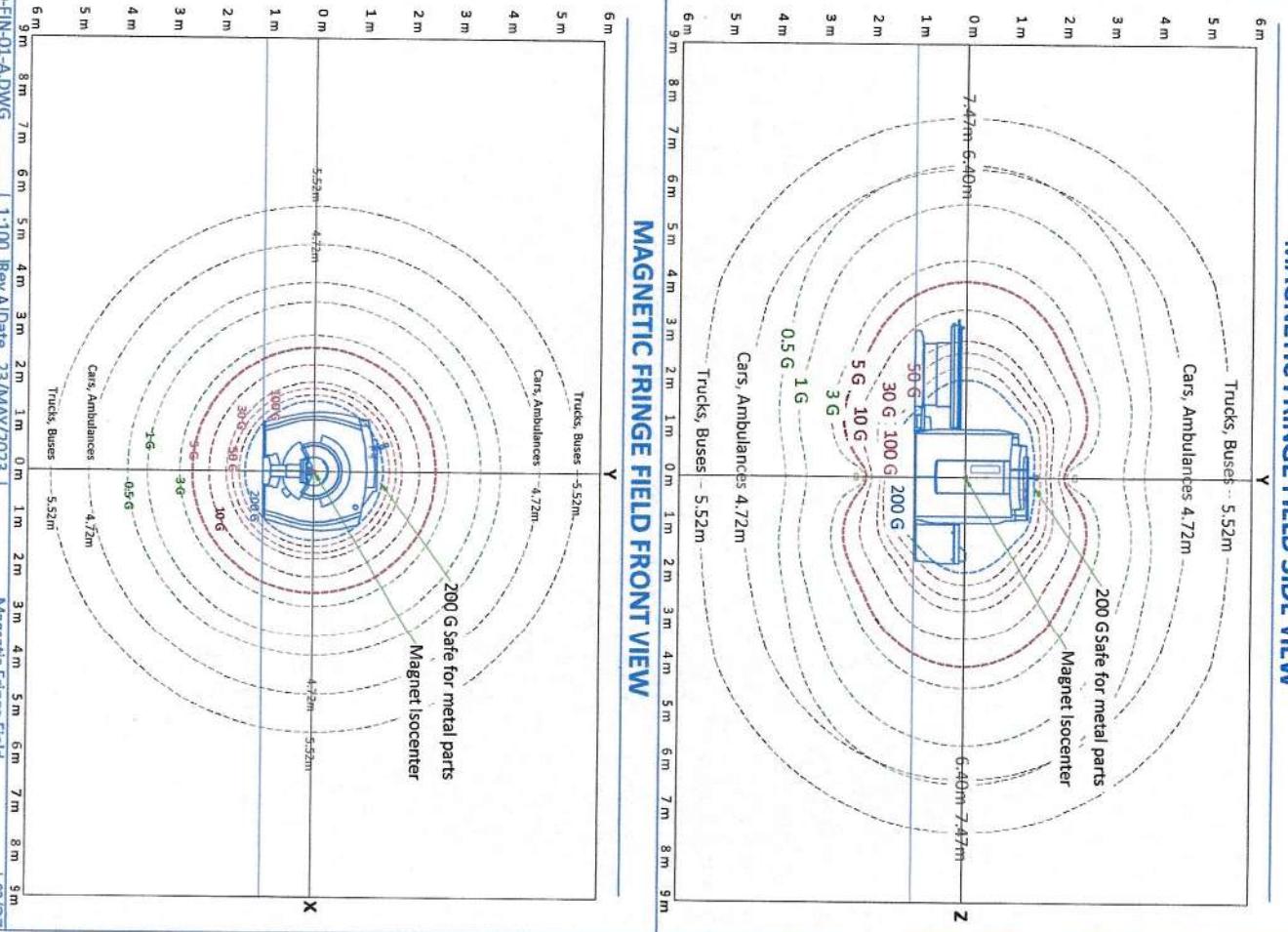
| kg/m ³ | lbs/ft ³ | mm | Distance Below Top Surface Of Floor in |
|-------------------|---------------------|---------|---|
| 0 | 0 | 0 - 76 | 0-3 |
| 9.8 | 2 | 76-127 | 3.5 |
| 14.7 | 3 | 127-254 | 5-10 |
| 39.2 | 8 | 254-330 | 10-13 |
| 98.0 | 20 | 330+ | 13+ |

The actual field strength can be affected by Magnetic shielding, Earth's magnetic field, other magnetic fields and stationary or moving metal. This information must be used to evaluate potential site interaction of GE Healthcare equipment with other non-GE Healthcare equipment. Magnetic shielding can be installed to prevent interaction between the magnet and nearby sensitive devices. The GE Healthcare Project Manager of Installation (PMI) can work with the customer to coordinate the magnetic shielding site evaluation. The customer is responsible for installation of all magnetic shielding.

MAGNETIC FRINGE FIELD TOP VIEW



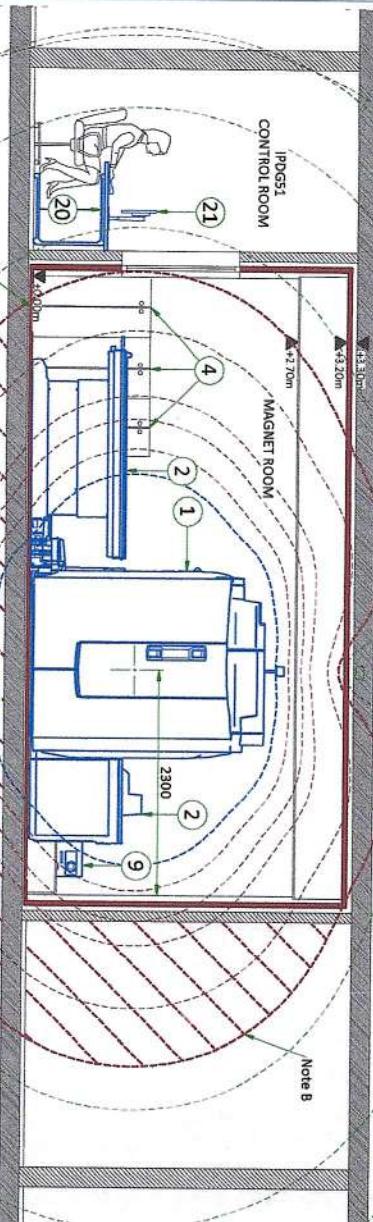
MAGNETIC FRINGE FIELD FRONT VIEW



Amelia

EQUIPMENT LAYOUT SIDE VIEW WITH MAGNETIC FIELD (A-A')

dwg



| ITEM | DESCRIPTION | DIMENSIONS LxWxH (mm) | WEIGHT (kg) |
|------|---|--------------------------|----------------|
| 1 | MAGNET (MAG) | 1938x249x2383 | 5320 |
| 2 | REAR PEDESTAL (PED) | 853x510x956 | 132 |
| 3 | FIXED PATIENT TABLE (PT) | 2134x572x965 | 336 |
| 4 | FURNITURE FOR COILS (NOT SUPPLIED BY GE) | 650x600x1200 | - |
| 5 | MAGNET RUNDOWN UNIT (MRU) | 287x206x172 | 32 |
| 6 | PHANTOM SET STORAGE CABINET (SP7) | 825x889x1524 | 136 |
| 7 | INJECTOR ON PEDESTAL | - | - |
| 8 | OXYGEN REMOTE SENSOR (OM2) | 121x121x78 | 69 |
| 9 | BLOWER BOX (MGB) | 381x453x558 | 21 |
| 10 | SYSTEM CABINET (SC) | 969x1250x2200 | 890 |
| 11 | PENETRATION PANEL (PP) | 250x800x750 | - |
| 12 | WATER CHILLER FOR BRM GRADIENT COIL (WC1) | 544x705x811 | 134 |
| 13 | WATER CHILLER FOR SYSTEM CABINET (WC2) | 544x705x811 | 100 |
| 14 | MAIN DISCONNECT PANEL (MDP) | 229x508x1067 | 61 |
| 15 | MAGNET MONITOR (MON) | 381x160x127 | 45 |
| 16 | CRYOCOOLER COMPRESSOR (CRV) | 450x539x590.5 | 120 |
| 17 | 4.6 kVA STEP DOWN TRANSFORMER FOR WCI (NOT SUPPLIED BY GE) | - | - |
| 18 | FULL UPS 80 kVA | - | - |
| 19 | FULL UPS BATTERY CABINET | - | - |
| 20 | OPERATOR WORKSPACE (OW) | 1300x875x750 | 57 |
| 21 | OPERATOR CONSOLE (GOC) | - | 65 |
| 22 | OXYGEN MONITOR (OX1) | 214x266x150 | 4 |
| 23 | INJECTOR CONTROL | - | - |
| 24 | ADVANTAGE WORKSTATION (AW) | 445x165x386 | 317 |

NOTES

- A) Define RF shield's inset according to provisions made by the RF shield vendor.
- B) Warning! 5 Gauss line outside the Magnet room limits.

16

0.5 G

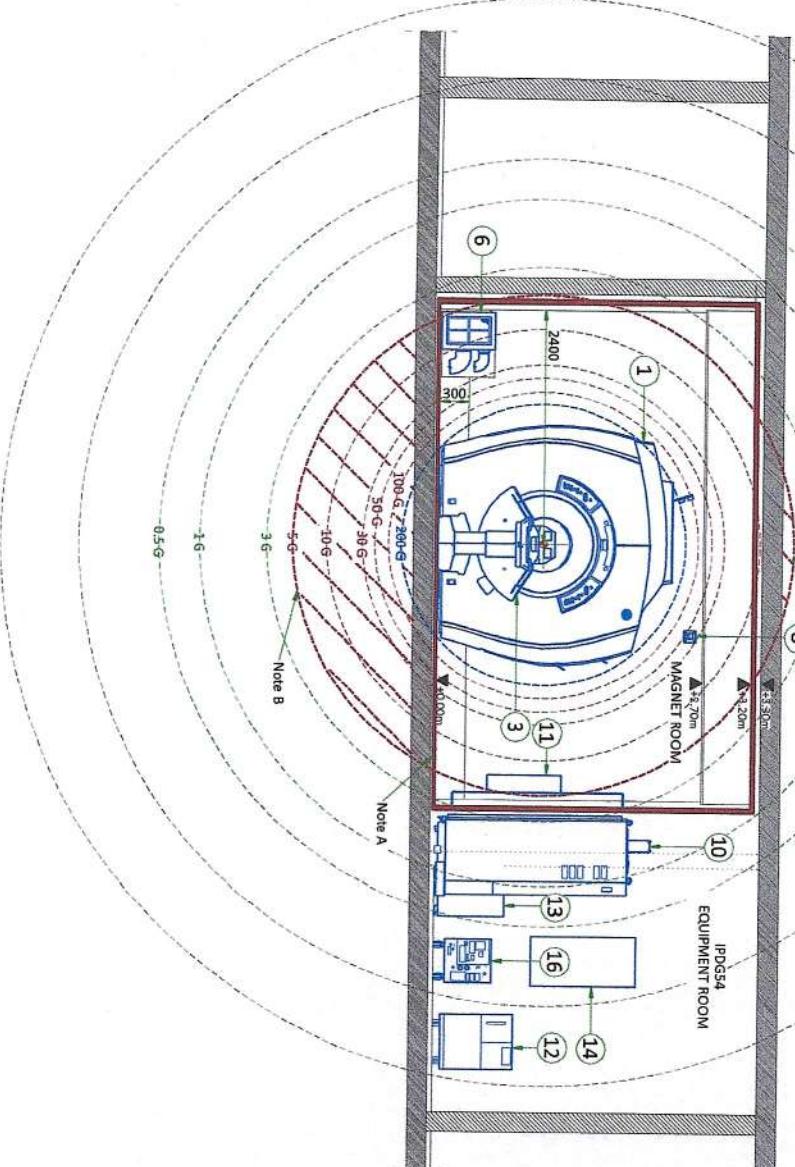
Quality

EQUIPMENT LAYOUT FRONT VIEW WITH MAGNETIC FIELD (B-B')

| ITEM | DESCRIPTION | DIMENSIONS LxWxH (mm) | WEIGHT (kg) |
|--|---|--------------------------|----------------|
| 1 | MAGNET (MAG) | 1938x2469x2383 | 5320 |
| 2 | REAR PEDESTAL (PED) | 853x510x956 | 132 |
| 3 | FIXED PATIENT TABLE (PT) | 2134x572x965 | 136 |
| 4 | FURNITURE FOR COILS (NOT SUPPLIED BY GE) | 650x60x1200 | - |
| 5 | MAGNET RUNDOWN UNIT (MRU) | 287x206x172 | 3.2 |
| 6 | PHANTOM SET STORAGE CABINET (SP1) | 825x885x1524 | 136 |
| 7 | INJECTOR ON PEDESTAL | - | - |
| 8 | OXYGEN REMOTE SENSOR (OMZ) | 121x121x78 | 0.9 |
| 9 | BLOWER BOX (MGS) | 381x453x558 | 2.1 |
| 10 | SYSTEM CABINET (SC) | 969x120x2200 | 890 |
| 11 | PENETRATION PANEL (PP) | 250x80x750 | - |
| 12 | WATER CHILLER FOR BIRN GRADIENT COIL (WCI) | 544x705x811 | 134 |
| 13 | WATER CHILLER FOR SYSTEM CABINET (WC2) | 544x705x811 | 100 |
| 14 | MAIN DISCONNECT PANEL (MDP) | 228x508x1067 | 61 |
| 15 | MAGNET MONITOR (MON) | 381x260x127 | 4.5 |
| 16 | CRYOCOOLER COMPRESSOR (CRV) | 450x553x590.5 | 120 |
| 17 | 4.6 kVA STEP DOWN TRANSFORMER FOR WCI (NOT SUPPLIED BY GE) | - | - |
| 18 | FULL UPS 80 kVA | - | - |
| 19 | FULL UPS/BATTERY CABINET | - | - |
| 20 | OPERATOR WORKSPACE (OW) | 1500x875x750 | 57 |
| 21 | OPERATOR CONSOLE (SOC) | - | 65 |
| 22 | OXYGEN MONITOR (OMX) | 214x265x150 | 4 |
| 23 | INJECTOR CONTROL | - | - |
| 24 | ADVANTAGE WORKSTATION (AW) | 445x159x386 | 31.7 |
| WALL ACCORDING TO RECEIVED DRAWING | | | |
| WALL TO DEMOLISH | | | |
| RF SHIELD - 100 dB ATTENUATION | | | |
| STRUCTURE - ACCORDING TO RECEIVED DRAWING | | | |

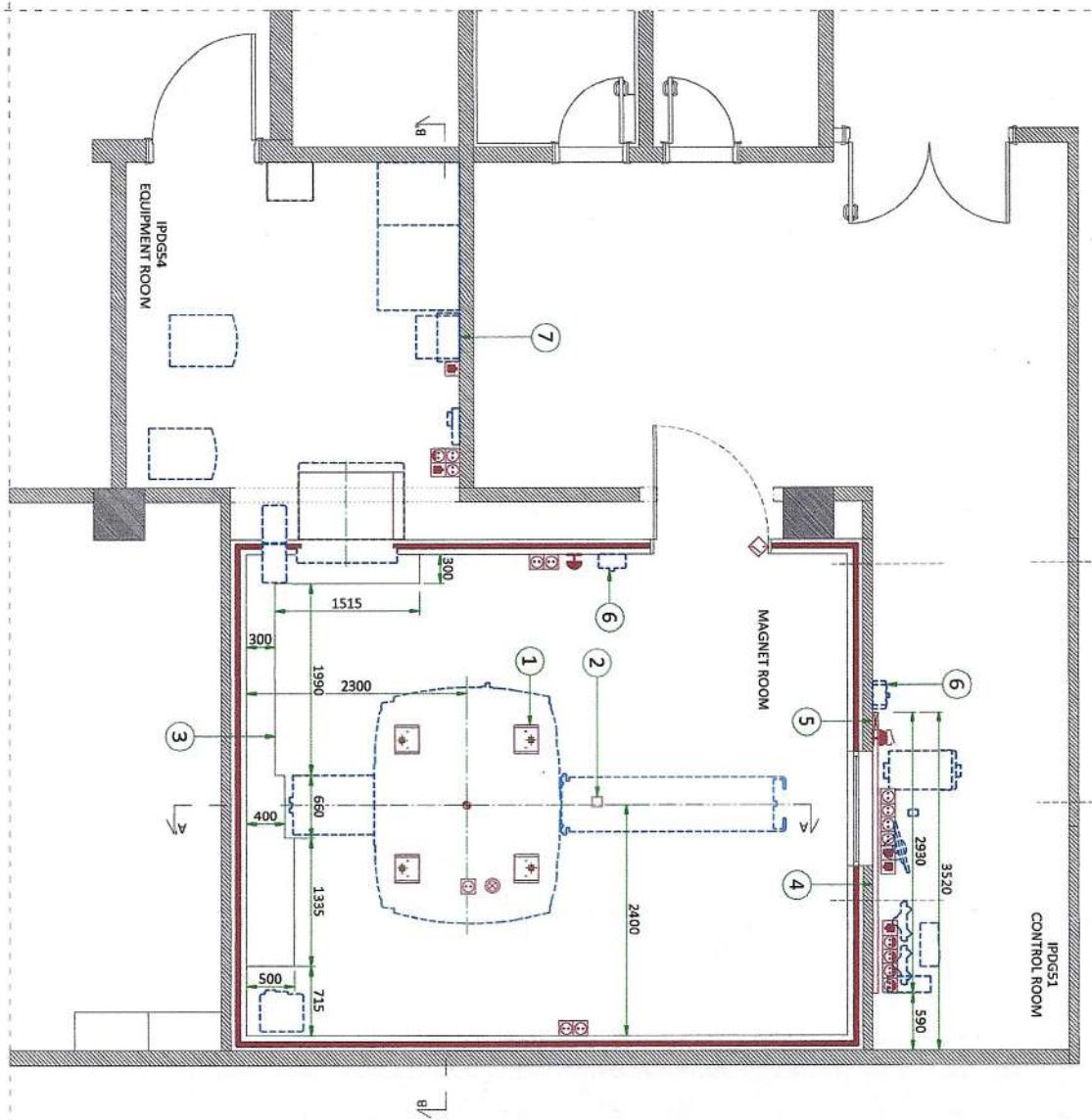
NOTES

- A) Define RF shield's inset according to provisions made by the RF Shield vendor.
- B) Warning! 5 Gauss line outside the Magnet room limits.

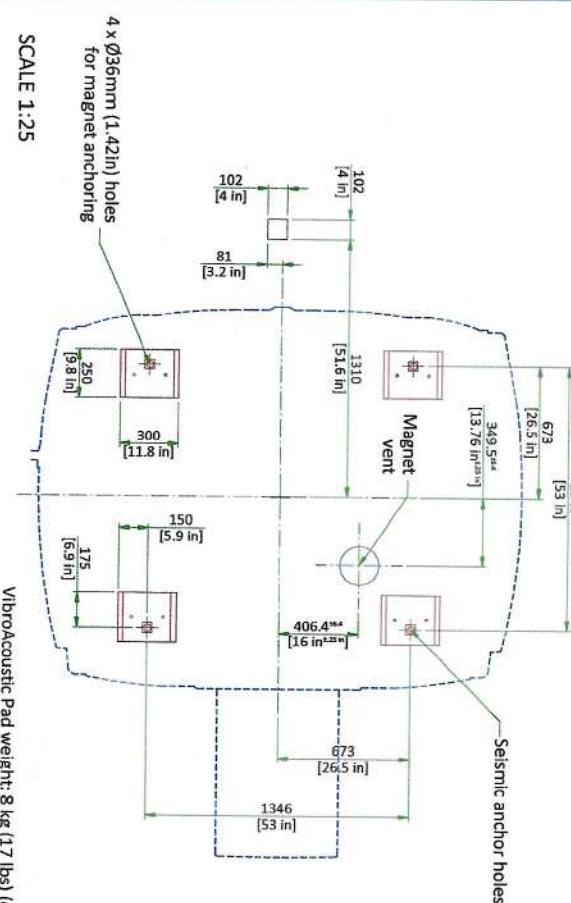


FLOOR - ELECTRICAL LAYOUT

| ITEM | QTY | DESCRIPTION |
|------|-----|--|
| 1 | 1 | SV VibroAcoustic Kit (See Floor Structural Detail) |
| 2 | 2 | Patient Table (PT) rebar free area |
| 3 | 3 | Wooden cable box, H: 300 mm |
| 4 | 4 | 200x60 horizontal wall duct for cabling |
| 5 | 5 | 200x60 vertical wall duct from horizontal duct to false ceiling |
| 6 | 2 | Magnet Rundown Unit (MRU) |
| 7 | 1 | Main Disconnect Panel (MDP) |
| | | Electrical outlet 10/16A 230V + G |
| | | RJ 45 network socket |
| | | System emergency off (SEO) (recommended height 1.5m-1.85m above floor) |
| | | Electrical outlet 10/16A 230V+G, on uninterruptible power supply (if available) |
| | | Door interlock switch |
| | | Emergency exhaust fan switch |
| | | Electrical outlet for Service 10/16A+G - 230V and service lamp above false ceiling (recommended) |
| | | Surface duct |



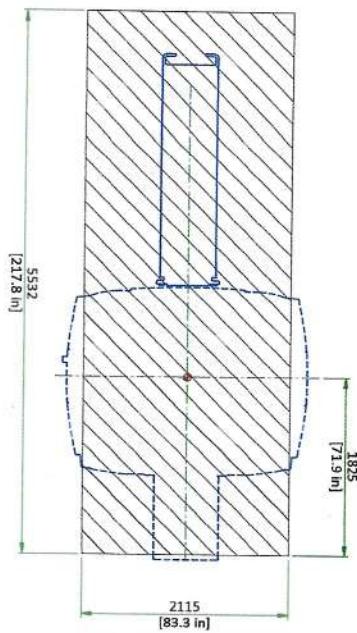
MAGNET ON VIBROACOUSTIC DAMPENING KIT



SCALE 1:25

MAGNET ROOM FLOOR SPECIFICATIONS

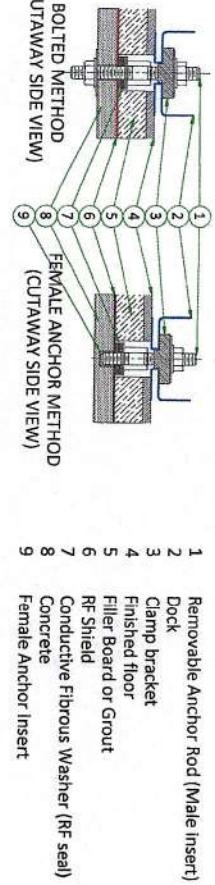
Magnet, Enclosure, and Patient Table areas must be flat and level within 3 mm (0.125 in) within the shaded area shown.



The finished floor must support the weight of all components (e.g., patient table, gradient coil replacement cart) throughout operation and service life.

SCALE 1:50

DOCK ANCHOR MOUNTING REQUIREMENTS



- The RF Shield vendor must design and install the dock anchor bolt
- The dock anchor hole must be drilled after the Magnet is installed
- The dock anchor must not contact floor rebar or other structural steel
- The dock anchors must electrically contact the RF shield at point of entry
- The female side expansion- or epoxy-type, male a bolt or threaded rod with appropriate-sized nut (bolt or rod must be removable-not epoxied or cemented in place), anchors electrically conductive, anchors must be non-magnetic, anchors must not induce galvanic corrosion with the RF Shield, anchors commercially procured. The anchor rod hole clearance in the dock anchor base is 11mm [0.43 in], extend 60 mm ± 13 mm [2.25 in ±0.5 in] above the finished floor, the diameter must be sized appropriately. Anchors must meet the following clamping force: 2669 N. [600 lbs]
- The RF shield vendor must perform a pull test on the anchor (equal to the clamping force).

NOT TO SCALE

Medical Engineering Dept.
Carlyle Lohr

POWER REQUIREMENTS

SPECIFICATIONS OF MAIN POWER INPUT

| Power Supply (3 Phases+G) | INPUT VOLTAGE (V) ±10% | | | | | |
|---------------------------------|------------------------|------|------|------|-----------|-------|
| | Frequency 50Hz/60Hz | | | | | |
| Total Current | 480 | 415 | 400 | 380 | 208 | 200 |
| Maximum input power [5 sec max) | 47.6 | 55.1 | 57.2 | 60.2 | 114 | 117.7 |
| Stand-by power | | | | | 43.75 kVA | |

13.4 kVA at 0.9 lagging Power Factor including 4.4 kVA for PDU and 9kVA (continuous operation) for Shield/Cryo Cooler Cabinet. Critical Power Requirements is different per each configuration.

- Governing electrical codes may require a neutral wire. If present, neutral must be terminated in MDP.
- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
- Total harmonic distortion less than 2.5%. Phase imbalance must not exceed 2%.
- Lock-out/tag-out: The Main Disconnect Panel (MDP) shall provide an external single point lock-out/tag-out feature for the entire system and a means to externally lock-out/tag-out each output breaker independently. Each lock-out/tag-out feature shall accommodate a standard sized lock hasp.

SPECIFICATIONS OF MAGNET MONITOR POWER

MAGNET MONITOR REQUIRES A 110/220 VAC, 50/60 HZ, 2.0 A FACILITY SUPPLIED OUTLET. POWER AT THE OUTLET MUST BE CONTINUOUSLY AVAILABLE.

CABLES

- Power and cable installation must comply with the distribution diagram.
- Size of the Main power input cable is determined by the customer, taking its length and admissible voltage drops into consideration.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signalling and remote control (Y, Emergency Off Buttons, L...) will go to the Distribution Panel/Box with a pigtail length of 1.5m [60in], and will be connected during installation.
- Each conductor will be identified and isolated (screw connector).

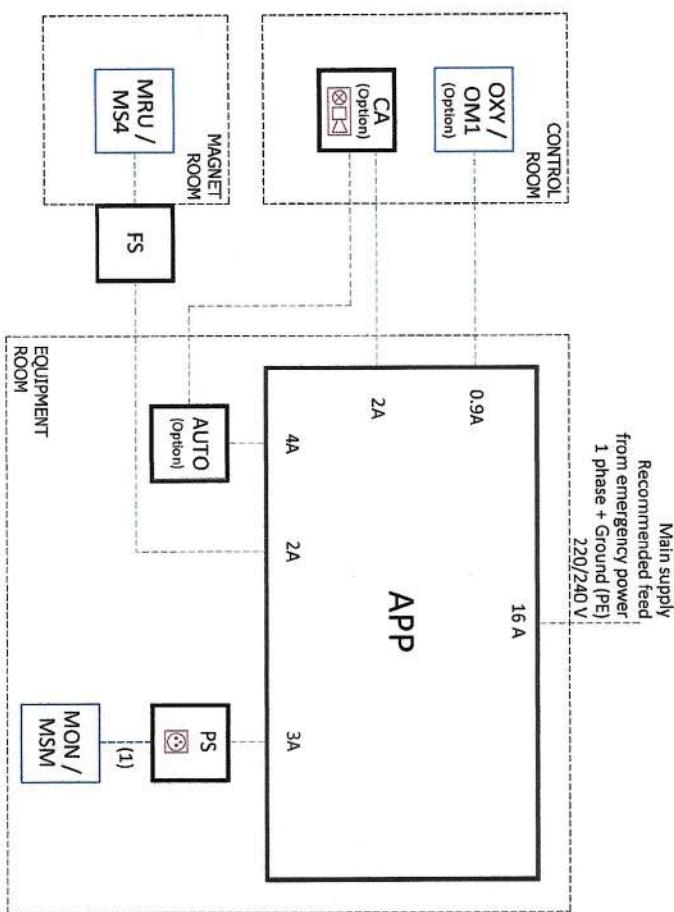
GROUND SYSTEM

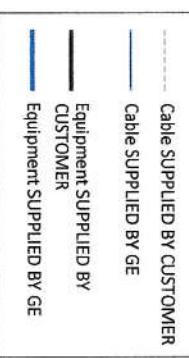
- The equipotential link will be by means of an equipotential bar.
- The grounding point of Distribution Panel/Box is directly connected to the building's ground by an isolated copper cable.
- The impedance of the earth bar should be less than or equal to 2 ohms



Mechanical Engineering Manager

OPTIONAL AUXILIARY POWER PANEL (SECONDARY GRID)

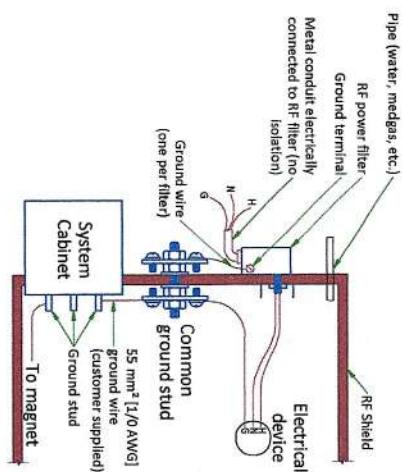


| | | |
|----------------|---|---|
| | | Main supply from emergency power 1 phase + Ground (PE) 220/240 V |
| APP | Auxiliary Power Panel, provided by customer if needed per regional requirements. | |
| AUTO | Automated city water backup system for Cryocooler Compressor (Option) | |
| CA | Cable prepared at 1.20 m [4 ft] from floor Central alarm placed at 1.50 m [5 ft] from floor Visual and audible alarm: | |
| MRU/MS4 | 1 - Cryocooler compressor water inlet error (Operating with city water) | |
| FS | Low-pass filter [Supplied and installed by cage manufacturer] | |
| MON/MSM | Installed on penetration panel cabinet door of the Faraday cage | |
| MON/MSM | Magnet Monitor 100-240 VAC, Max. 3A | |
| MRU/MS4 | Magnet Rundown Unit 100-240 VAC, Max 1A Cable prepared at 1.50 m [5 ft] from floor | |
| OXY/OM1 | Oxygen Monitor (Option) 100-240 VAC, Max 0.9A Cable prepared at 1.50 m [5 ft] from floor | |
| PS | Power socket | |
| Notes : | (1) Cable delivered with magnet control cabinet installed by GE | |
| | |  <i>Technical Services Manager</i> GE Healthcare |
| | |  <ul style="list-style-type: none"> — Cable SUPPLIED BY CUSTOMER — Cable SUPPLIED BY GE — Equipment SUPPLIED BY CUSTOMER — Equipment SUPPLIED BY GE |

TYPICAL MAGNET ROOM GROUNDING

GROUNDING REQUIREMENTS

- All power lines into the RF shielded room require an RF filter.
- All electrical devices (for example, outlets, light fixtures, and so on) must have a ground wire from device power source and be grounded to the RF Shield at the RF Common Ground Stud.
- Resistance between any two grounded devices must not exceed 0.1 ohm to ensure equal potential ground system within the Magnet Room.
- Do not ground non-MR equipment to the MR ground system.
- If needed, electrical devices can be grounded at the System Cabinet rear panel.
- The common ground stud must be installed near the penetration point(s) of the GE equipment, into the RF shield between the Equipment Room and Magnet Room.
- For additional information refer to RF Shielded Room manual 5850260-1EN



Sudabelt Medical Co. Ltd.

TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

| AREA | Temperature | | Humidity | | Maximum Room Gradient | |
|---|-------------|-----------|---------------|---------------|-----------------------|----------|
| | Range °C | Range °F | Change /hr °C | Change /hr °F | Range % | Change % |
| EQUIPMENT ROOM at inlet | 15-28 * | 59-82.4 * | 3 | 5 | 30-75 * | 5 |
| MAGNET ROOM | 15-21 | 59-69.8 | 3 | 5 | 30-50 * | 5 |
| CONTROL ROOM | 15-32 | 59-89.6 | 3 | 5 | 30-75 * | 5 |
| SYSTEM HEAT DISSIPATION [base system only] | W | BTU | W | BTU | W | BTU |
| | 3400 | | 11504 | | 1550 | |
| | | | 4947 | | 15887 | |
| | | | | | 54184 | |

NOTE
** Non-condensing humidity with 50% nominal at 18.3°C (65°F)

** Room temperature gradient specification applies from floor to height of top discharge of equipment cabinets.
Maximum ambient temperature is de-rated by 1°C (1.8°F) per 300 m (984 ft) above 800 m (2624.6 ft).
The altitude is from 30.5 m (100 ft) below sea level to 2438 m (7992 ft) above sea level.

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 dripping water.

HEAT DISSIPATION DETAILS

| DESCRIPTION | ROOM | MAX W | MAX BTU |
|---|------------------------------|-------|---------|
| Magnet (MAG) and Patient Table (PT) | Magnet Room | 2400 | 8189 |
| Blower Box (MAG) | Magnet Room | 1000 | 3415 |
| Magnet Monitor (MON) | Control/Equipment Room | 60 | 205 |
| System Cabinet (SC) | Control/Equipment Room | 5000 | 17000 |
| Operator Workspace with LCD Color Display (GOD) | Control/Equipment Room | 1450 | 4947 |
| Shield/Cryo Cooler Compressor - Water Cooled (CRY) | Equipment Room | 500 | 1706 |
| Step Down Transformer (SDT) | Equipment Room | 223 | 760 |
| Water Chiller for BRM (Lytron Chiller) (WC1) | Equipment Room | 4200 | 14000 |
| Water Chiller for SC (MCS) (WC2) | Equipment Room | 5740 | 19613 |
| Options | | | |
| GE pre-engineered Main Disconnect Panel (MDP) | Control/Equipment Room | 254 | 900 |
| Magnetic Resonance Elastography (NRE) | Equipment Room | 200 | 682 |
| Smart Subscription Server ML350G10 | Control/Hospital Data Center | 1198 | 6134 |
| SG-CE Series 60/80 kVA Full UPS [E459610Y/DL/DK/DG] | Equipment Room | 4520 | 15422 |
| GEDE 100 kVA Full UPS [E4502FB] | Equipment Room | 3050 | 10439 |
| TLE Series 80 kW Full UPS [E4502DA] | Equipment Room | 4500 | 15355 |
| PowerWave 33.52 60kVA Full UPS [E45971DG/EG/RG] | Equipment | 3.16 | 10776 |
| PowerWave 33.53 80kVA Full UPS [E45971DQ/EL/BL] | Equipment | 4.21 | 14369 |
| Riello UL Full UPS MHT 100 kVA [E4582AF] | Equipment | 6.78 | 23117 |

MAGNET ROOM VENTING REQUIREMENTS

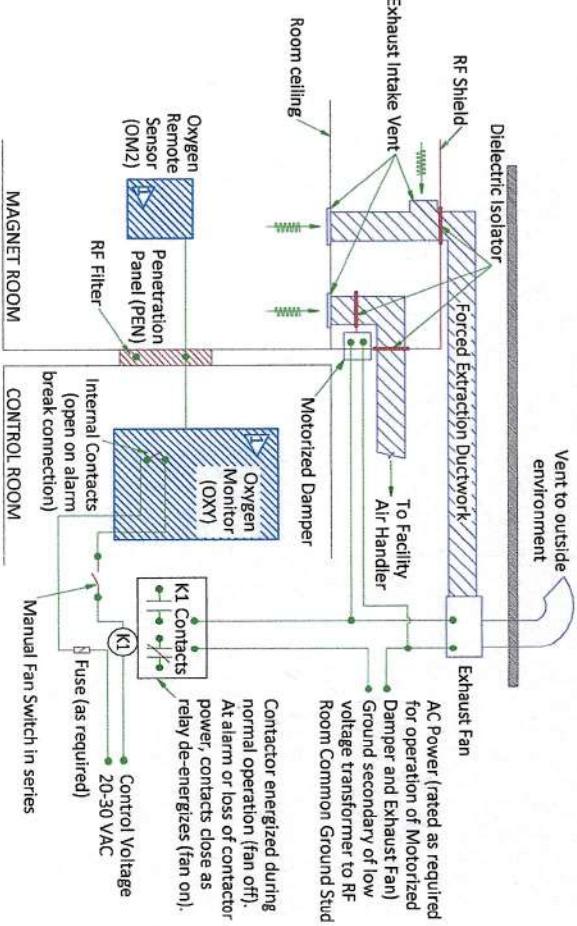
HVAC VENT REQUIREMENTS

- HVAC vendor must comply with Magnet room temperature and humidity specifications and RF shielding specifications.
- RF Shield vendor must install open pipe or honeycomb HVAC waveguides.
- All serviceable parts in the Magnet room (e.g.: diffusers) must be non-magnetic.
- Waveguides must be nonmagnetic and electrically isolated.
- Incoming air must contain at least 5% air from outside the Magnet room (inside or outside the facility) to displace residual helium.

EMERGENCY VENT REQUIREMENT

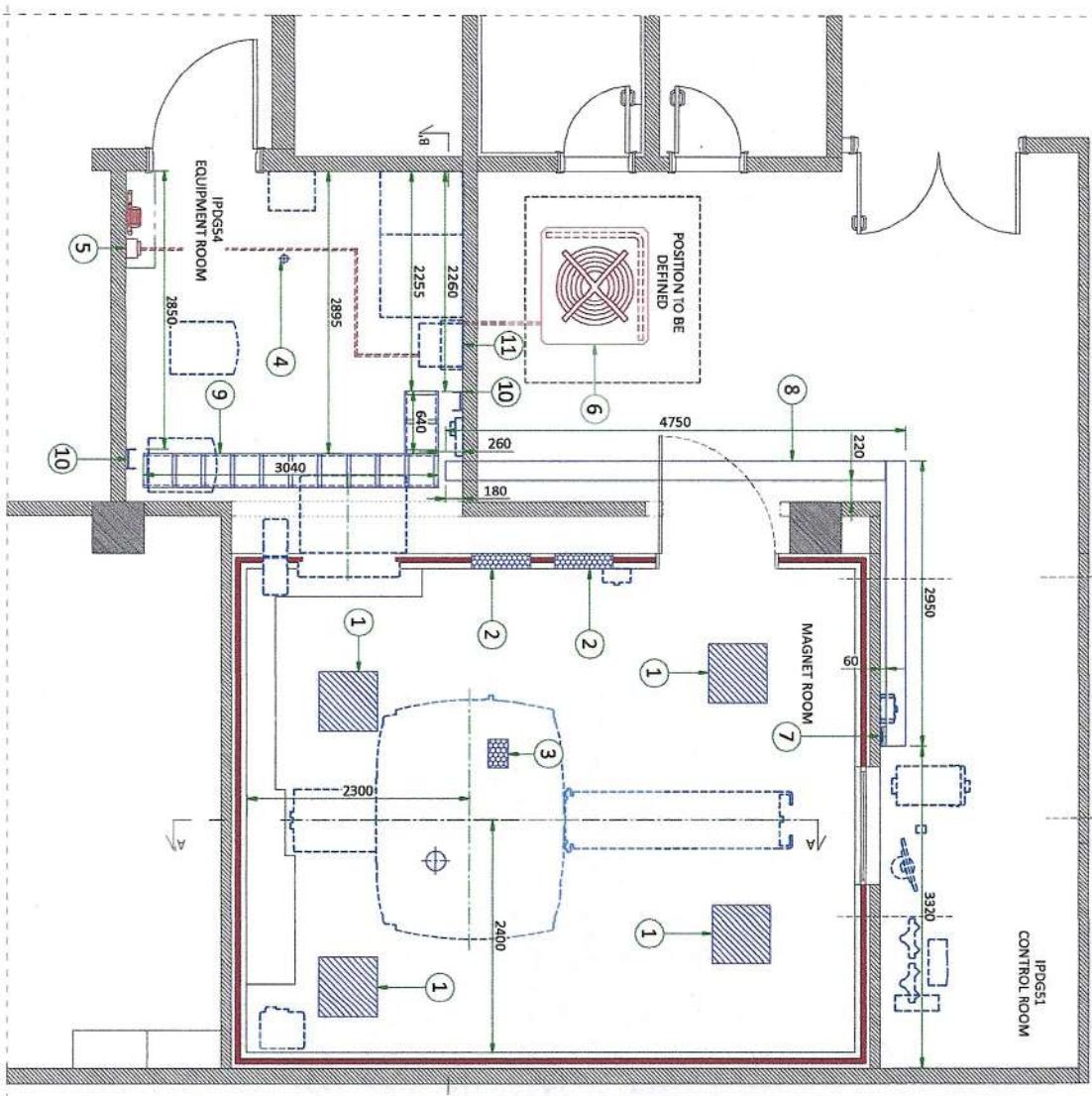
- Exhaust vent system is supplied by the customer.
- All items within the RF enclosure must be non-magnetic.
- The exhaust vent system must be tested and operational before the magnet is installed.
- The exhaust intake vent must be located near the magnet cryogenic vent at the highest point on the finished or drop ceiling.
- The Magnet room exhaust fan and exhaust intake vent must have a capacity of at least 1200 CFM (34 m³/min) with a minimum of 12 room air exchanges per hour.
- The exhaust fan must be placed above RF shielding located outside 10 gauss (1mT) and with appropriate waveguide.
- The system must have a manual exhaust fan switch near the Operator Workspace and in the Magnet room near the door (the switches must be connected in parallel).
- All system components must be accessible for customer inspection, cleaning and maintenance

EMERGENCY EXHAUST VENT



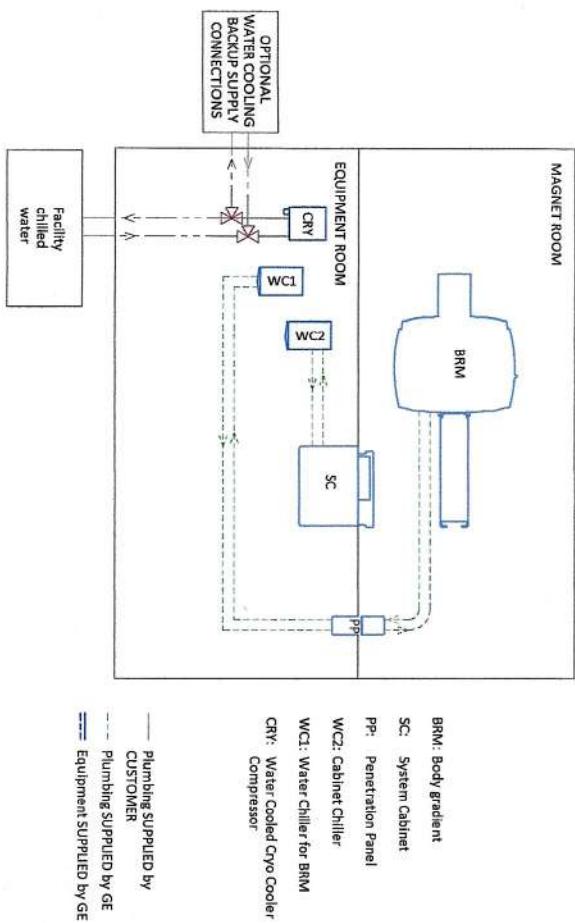
GE option: equipment supplied and installed by GE. All other items supplied and installed by customer or contractors.

HVAC - CHILLED WATER - CEILING LAYOUT



| REF | DESIGNATION |
|-----|---|
| 1 | Air diffusers (number and position to be defined) |
| 2 | AC in/out waveguide (number and position to be defined) |
| 3 | Emergency air exhaust waveguide (position to be defined, highest point in the room) |
| 4 | Floor drain |
| 5 | Water backup |
| 6 | Indoor/outdoor chiller |
| 7 | 200x60 opening on false ceiling and vertical duct from false ceiling to horizontal duct |
| 8 | 200x60 cable tray above false ceiling |
| 9 | Horizontal cable ladder 300 |
| 10 | Vertical cable ladder 200 |
| 11 | Power Distribution Box (PDB) |

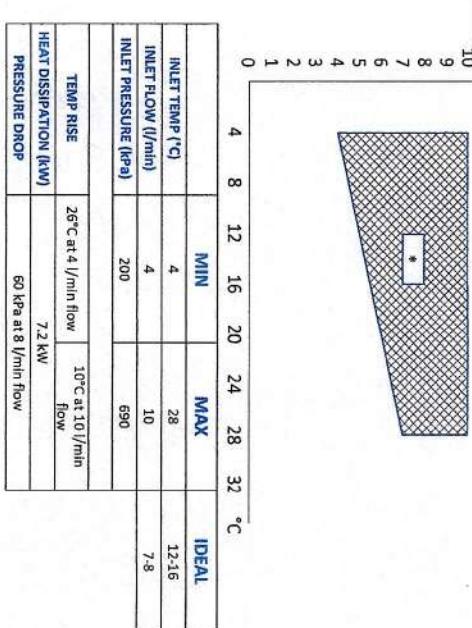
WATER COOLING



CITY WATER BACKUP SPECIFICATIONS FOR COMPRESSOR

INLET WATER FLOW/TEMPERATURE FOR CRYOCOOLER COMPRESSOR

* RECOMMENDED TEMPERATURE AND WATER FLOW TO CRY ENTRY

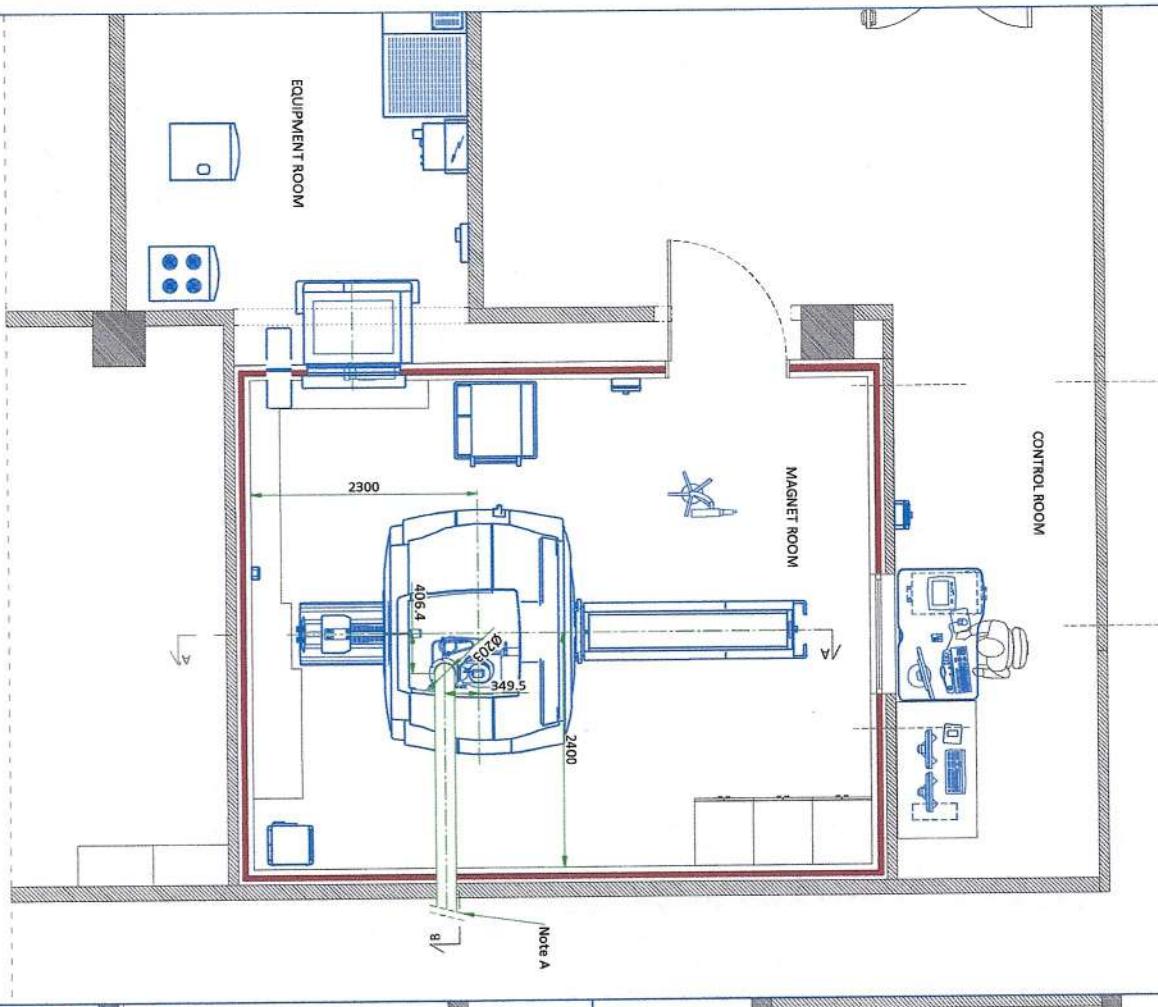


CHILLED WATER SPECIFICATIONS

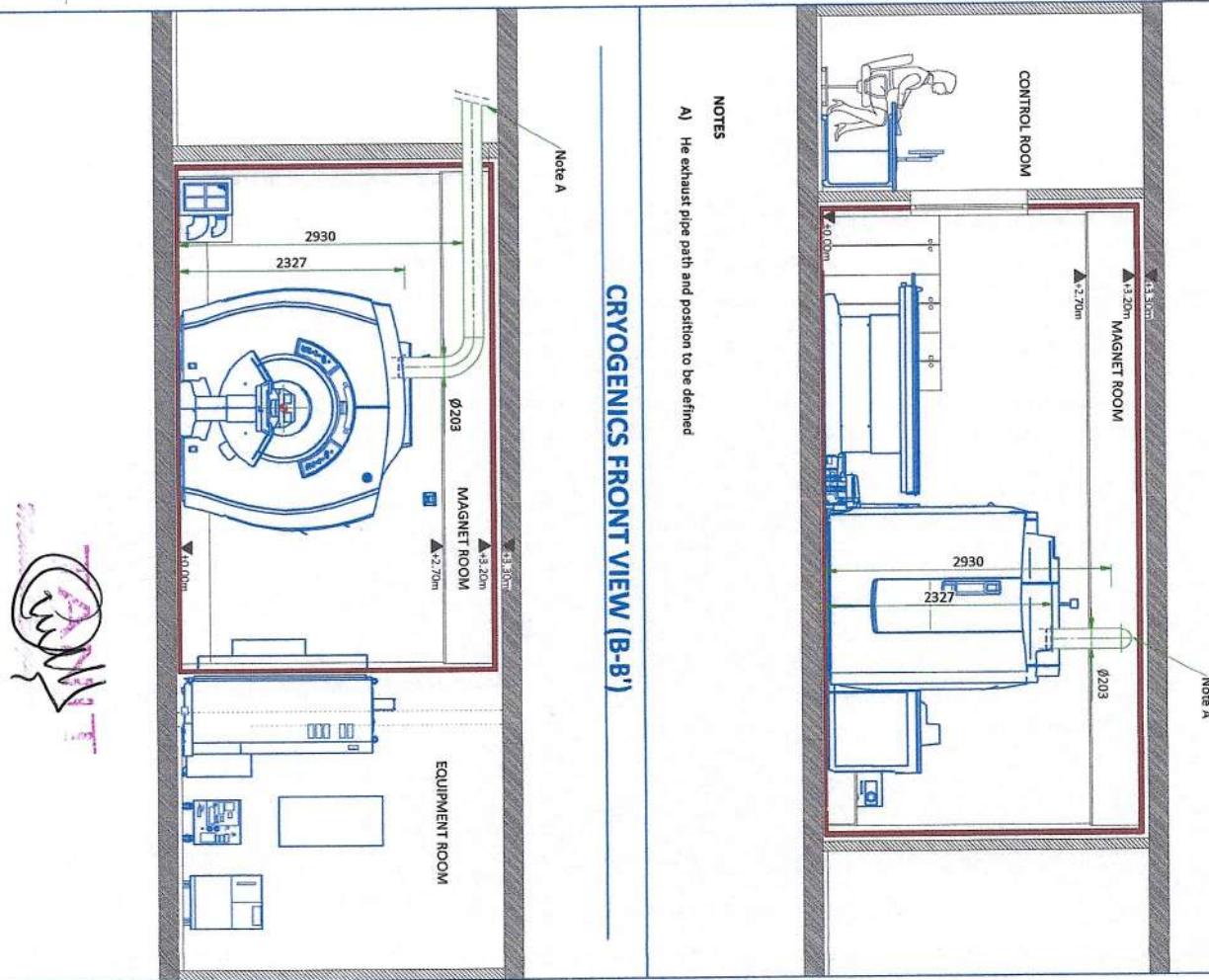
| PARAMETER | REQUIREMENTS | | | | |
|-------------------------|---|--------------|---|---------|--|
| Inlet temperature | [from 4 to 28 °C [39.2 to 82.4°F] measured at the inlet] | | | | |
| Inlet Pressure Range | [from 200 to 690 kPa [29 to 100 psig]] | | | | |
| Flow Rate | 4 to 10 l/min [1.1 to 2.6 gpm] | | | | |
| Heat output | <table border="1"> <tr> <td>Steady state</td> <td>[less than 6.5 kW / 22180 btu] for 50Hz [less than 7.5 kW / 25590 btu] for 60Hz]</td> </tr> <tr> <td>Maximum</td> <td>[less than 7.2 kW / 24570 btu] for 50Hz [less than 8.3kW / 28320 btu] for 60Hz]</td> </tr> </table> | Steady state | [less than 6.5 kW / 22180 btu] for 50Hz [less than 7.5 kW / 25590 btu] for 60Hz] | Maximum | [less than 7.2 kW / 24570 btu] for 50Hz [less than 8.3kW / 28320 btu] for 60Hz] |
| Steady state | [less than 6.5 kW / 22180 btu] for 50Hz [less than 7.5 kW / 25590 btu] for 60Hz] | | | | |
| Maximum | [less than 7.2 kW / 24570 btu] for 50Hz [less than 8.3kW / 28320 btu] for 60Hz] | | | | |
| Pressure Drop | [from 25 kPa to 85 kPa [3.5 to 12.1 psig]] | | | | |
| Condensation protection | Condensation must be managed to prevent equipment damage or safety hazards | | | | |
| Water quality | Refer to pre-installation manual for detailed specifications | | | | |

TANIT
Medical Engineering Ltd.

CRYOGENICS TOP VIEW

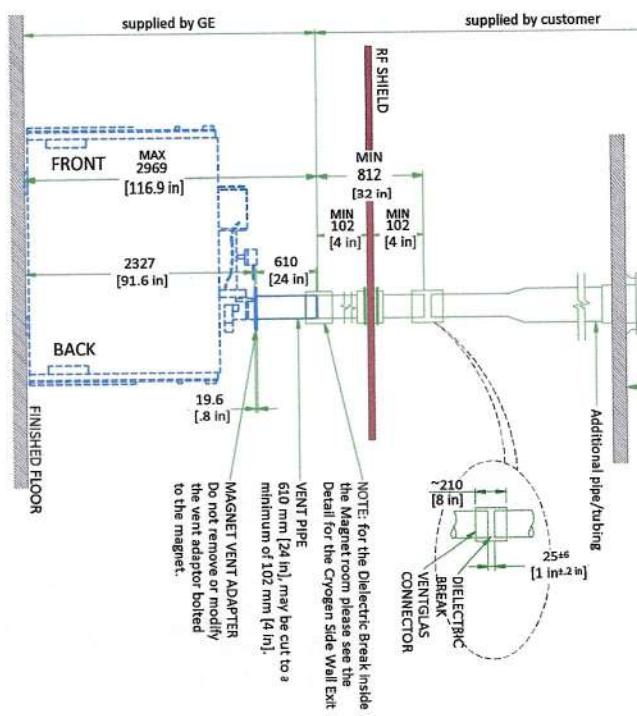


CRYOGENICS SIDE VIEW (A-A')



TYPICAL CRYOGENIC VENT PIPE DETAIL

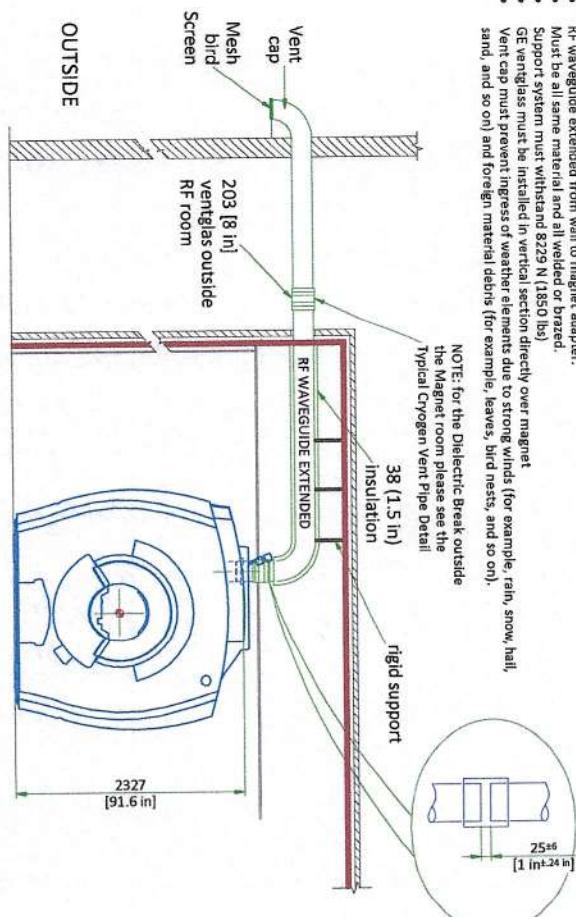
Vent cap must prevent ingress of weather elements due to strong winds (for example, rain, snow, hail, sand, and so on) and foreign material debris (for example, leaves, bird nests, and so on). sand, and so on) and foreign material debris (for example, leaves, bird nests, and so on).



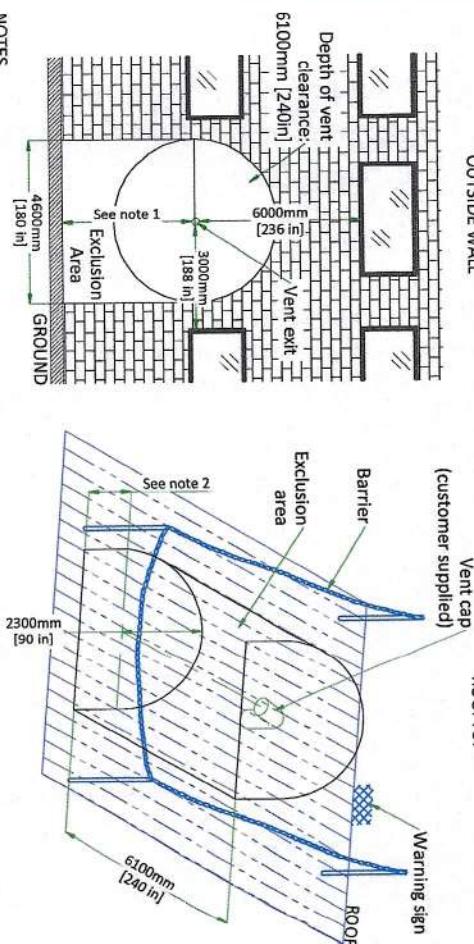
TYPICAL CRYOGEN SIDE WALL EXIT WITH LONG SWEEP ELBOW

- RF waveguide extended from wall to magnet adapter. Must be all same material and all welded or brazed.
- Support system must withstand 832 N (185 lbs)
- GE ventglass must be installed in vertical section directly over magnet.
- Vent cap must prevent ingress of weather elements due to strong winds (for example, rain, snow, hail, sand, and so on).

NOTE: For the Dielectric Break outside the Magnet room please see the Typical Cryogen Vent Pipe Detail



CRYOGENIC VENTING (EXTERIOR)



NOTE
Waveguide is contractor supplied. Minimum 812 mm [32 in]. Must extend at least 100 mm [4 in] on magnet room side of the wall/ceiling and 25±6 mm [140±25 in] from the GE supplied pipe below isolation joint. Magnet room end must not be more than 2969 mm [117 in] above finished floor.

1. The 203 mm [8 in] OD vent material must be one of the following materials with the wall thickness indicated:
 a. SS 304: Minimum 0.89 mm [0.035 in]; Maximum 3.18 mm [0.125 in]
 b. Al 6063-T6: Minimum 2.11 mm [0.083 in]; Maximum 3.18 mm [0.125 in]
 c. CU DWV, M or L: Minimum 2.11 mm [0.083 in]; Maximum 3.56 mm [0.140 in]
2. Either tubes or pipes may be used and must be seamless or have welded seams

All welds on the pipe must be ground down to a smooth 203 mm [8 in] diameter so that it can be clamped to the Ventglas with enough force.

3. Corrugated pipe or spiral duct must not be used
4. If required, bellows pipe less than 300 mm [12 in] in length may be used as a thermal expansion joint
5. The vent pipe must withstand the maximum pressure listed in the Pre-Installation Manual
6. Waveguide vent material must match the outside diameter of the magnet flanged vent adapter

MAGNET CRYOGENIC VENT SYSTEM PRESSURE DROP MATRIX

| Outer dia. of pipe (D) | Distance of vent system component from magnet (m) | Pressure drop for straight pipe | | Std sweep 45° elbow | | Long sweep 45° elbow | | Std sweep 90° elbow | | Long sweep 90° elbow | | 90° miter bend | |
|------------------------|---|---------------------------------|--------|---------------------|--------|----------------------|--------|---------------------|--------|----------------------|--------|----------------|--------|
| | | kPa/m | psi/ft | kPa | psi | kPa | psi | kPa | psi | kPa | psi | kPa | psi |
| 8 in. (200mm) | 0.00-3.05 | 0.110 | 1.629 | 0.072 | 3.877 | 0.562 | 2.585 | 0.375 | 7.269 | 1.054 | 4.845 | 0.703 | 14.539 |
| | 3.05-6.10 | 10.20 | 2.784 | 0.123 | 6.393 | 0.927 | 4.262 | 0.618 | 11.987 | 1.738 | 7.992 | 1.159 | 23.975 |
| | 6.10-9.15 | 20.30 | 4.172 | 0.184 | 8.712 | 1.263 | 5.808 | 0.842 | 16.535 | 2.369 | 10.890 | 1.579 | 32.670 |
| | 9.15-12.2 | 30.40 | 5.391 | 0.238 | 10.847 | 1.573 | 7.231 | 1.049 | 20.338 | 2.949 | 13.559 | 1.966 | 40.677 |
| | 12.20-15.25 | 40.50 | 6.460 | 0.286 | 12.812 | 1.858 | 8.541 | 1.239 | 24.023 | 3.483 | 16.015 | 2.327 | 48.046 |
| | 15.25-18.30 | 50.60 | 7.394 | 0.327 | 14.850 | 2.120 | 9.747 | 1.413 | 27.413 | 3.975 | 18.225 | 2.650 | 54.826 |
| 10 in. (250mm) | 18.29-24.39 | 60.80 | 8.913 | 0.394 | 17.813 | 2.583 | 11.875 | 1.722 | 33.400 | 4.843 | 22.256 | 3.229 | 66.799 |
| | 24.39-30.49 | 80.100 | 10.049 | 0.444 | 20.514 | 2.974 | 13.676 | 1.983 | 38.463 | 5.577 | 25.642 | 3.718 | 76.926 |
| | 0.00-6.10 | 0.20 | 0.824 | 0.036 | 2.382 | 0.345 | 1.588 | 0.230 | 4.467 | 0.648 | 2.978 | 0.432 | 8.934 |
| | 6.10-12.22 | 20.40 | 1.607 | 0.071 | 4.035 | 0.585 | 2.690 | 0.390 | 7.565 | 1.097 | 5.043 | 0.731 | 15.130 |
| | 12.22-18.39 | 40.60 | 2.239 | 0.099 | 5.477 | 0.794 | 3.651 | 0.529 | 10.269 | 1.489 | 6.845 | 0.993 | 20.537 |
| | 18.29-24.39 | 60.80 | 2.745 | 0.121 | 6.733 | 0.976 | 4.489 | 0.651 | 12.625 | 1.831 | 8.416 | 1.220 | 25.249 |
| 14 in. (350mm) | 24.39-30.49 | 80.100 | 3.145 | 0.139 | 7.827 | 1.135 | 5.228 | 0.757 | 14.676 | 2.128 | 9.784 | 1.419 | 29.353 |
| | 0.00-6.10 | 0.20 | 0.424 | 0.019 | 1.486 | 0.215 | 0.991 | 0.144 | 2.786 | 0.404 | 1.858 | 0.269 | 5.573 |
| | 6.10-12.22 | 20.40 | 0.829 | 0.057 | 2.501 | 0.363 | 1.667 | 0.242 | 4.689 | 0.680 | 3.126 | 0.453 | 9.377 |
| | 12.22-18.39 | 40.60 | 1.169 | 0.052 | 3.401 | 0.502 | 2.272 | 0.329 | 6.389 | 0.926 | 4.260 | 0.618 | 12.779 |
| | 18.29-24.39 | 60.80 | 1.453 | 0.064 | 4.218 | 0.612 | 2.812 | 0.408 | 7.908 | 1.147 | 5.272 | 0.764 | 15.816 |
| | 24.39-30.49 | 80.100 | 1.688 | 0.075 | 4.941 | 0.716 | 3.294 | 0.478 | 9.263 | 1.343 | 6.176 | 0.895 | 18.527 |
| 16 in. (400mm) | 0.00-6.10 | 0.20 | 0.235 | 0.010 | 0.970 | 0.141 | 0.647 | 0.094 | 1.819 | 0.264 | 1.213 | 0.179 | 3.639 |
| | 6.10-12.22 | 20.40 | 0.459 | 0.020 | 1.619 | 0.235 | 1.079 | 0.157 | 3.036 | 0.440 | 2.024 | 0.293 | 6.072 |
| | 12.22-18.39 | 40.60 | 0.652 | 0.029 | 2.209 | 0.320 | 1.473 | 0.214 | 4.142 | 0.601 | 2.761 | 0.400 | 8.284 |
| | 18.29-24.39 | 60.80 | 0.817 | 0.036 | 2.745 | 0.398 | 1.830 | 0.285 | 5.147 | 0.746 | 3.431 | 0.498 | 10.293 |
| | 24.39-30.49 | 80.100 | 0.958 | 0.042 | 3.231 | 0.469 | 2.154 | 0.312 | 6.059 | 0.879 | 4.039 | 0.586 | 12.117 |
| | 0.00-6.10 | 0.20 | 0.184 | 0.008 | 0.875 | 0.127 | 0.584 | 0.105 | 1.661 | 0.238 | 1.094 | 0.159 | 3.283 |
| 18.29-24.39 | 6.10-12.22 | 20.40 | 0.356 | 0.016 | 1.445 | 0.209 | 0.962 | 0.140 | 2.707 | 0.392 | 1.804 | 0.262 | 5.413 |
| | 12.22-18.39 | 40.60 | 0.508 | 0.022 | 1.968 | 0.285 | 1.312 | 0.190 | 3.689 | 0.535 | 2.460 | 0.357 | 7.379 |
| | 18.29-24.39 | 60.80 | 0.642 | 0.028 | 2.451 | 0.355 | 1.634 | 0.237 | 4.596 | 0.666 | 3.064 | 0.444 | 9.191 |
| | 24.39-30.49 | 80.100 | 0.759 | 0.034 | 2.896 | 0.420 | 1.931 | 0.280 | 5.430 | 0.787 | 3.620 | 0.525 | 10.861 |
| | 0.00-6.10 | 0.20 | 0.184 | 0.008 | 0.875 | 0.127 | 0.584 | 0.105 | 1.661 | 0.238 | 1.094 | 0.159 | 3.283 |
| | 6.10-12.22 | 20.40 | 0.356 | 0.016 | 1.445 | 0.209 | 0.962 | 0.140 | 2.707 | 0.392 | 1.804 | 0.262 | 5.413 |

Notes
 1. Refer to Magnet Room Venting manual 5850263-1EN for specifications of distances >100 ft (30.49 m).

2. Elbows with angles greater than 90 deg must not be used
 Data in Table is based on the following facts and assumptions:
 a. Initial flow conditions at magnet interface

b. EM energy (130MJ) is dumped to He during quench and rises He temperature to 10 Kelvin
 c. Gas temperature starting at 10 Kelvin and increase with length determined by thermal energy balance

d. 90% He is assumed to be evacuated within 30 sec. None left after quench.

e. Absolute roughness is assumed to be 0.25 mm.

f. R/D = 1.0 for standard sweep elbows, R/D = 1.5 for long sweep elbows where D = outer diameter of pipe; R = radius of bend

3. The total pressure drop of the entire cryogenic vent system must be less than 17 psi(117.2 kPa). The calculation starts at the magnet vent interface and ends at the termination point outside the building.

WALL OPENINGS

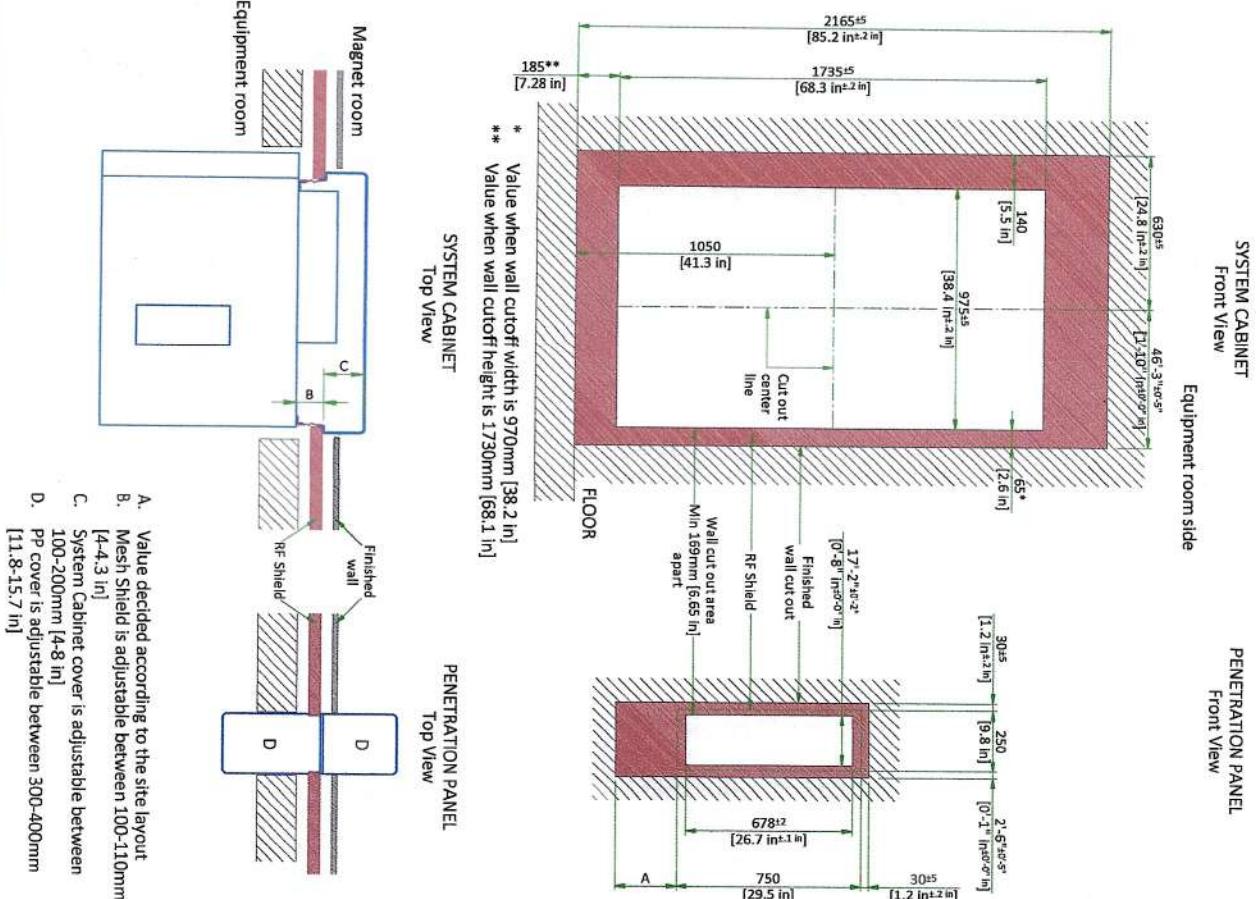
SYSTEM CABINET
Front View

PENETRATION PANEL
Front View

MAGNET ROOM

RF CAGE OPENING SIDE VIEW

EQUIPMENT ROOM
FALSE CEILING



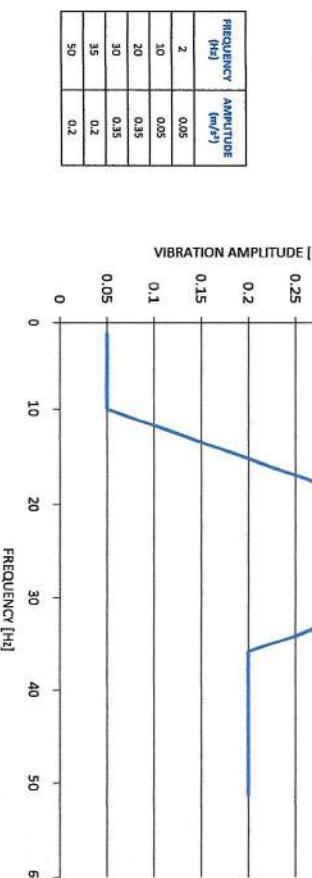
- A. Value decided according to the site layout
- B. Mesh Shield is adjustable between 100-110mm [4.4-3.1 in]
- C. System Cabinet cover is adjustable between 100-200mm [4-8 in]
- D. PP cover is adjustable between 300-400mm [11.8-15.7 in]

TAU

ACOUSTICS SPECIFICATIONS

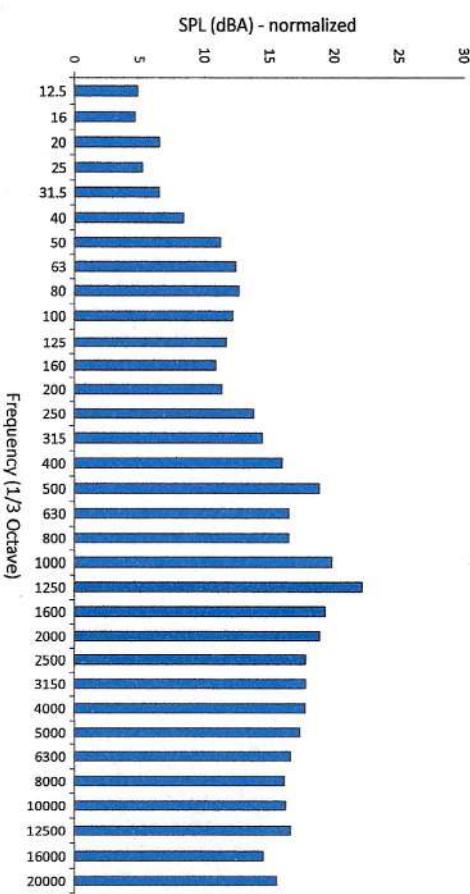
Acoustic and vibroacoustic information is provided for site planning and architectural design activities. It is the customer's responsibility to hire a qualified acoustic engineer for solutions to further attenuate this transmitted noise and vibration, if required. The actual room noise level may vary based on room design, optional equipment, and usage:

| | |
|---|---------|
| Control Room: | 62dBA |
| Equipment Room: | 80dBA |
| Magnet Room: | 122dBA* |
| (maximum sound pressure level at magnet bore [isocenter]) | |
| * Frequency: 20 Hz to 20kHz | |



SOUND PRESSURE SPECTRAL DISTRIBUTION

1/3 Band Relative SPL



VIBRATION SPECIFICATIONS

Excessive vibration can affect MR image quality. Vibration testing must be performed early in the site planning process to ensure vibration is minimized. Both steady state vibration (exhaust fans, air conditioners, pumps, etc.) and transient vibrations (traffic, pedestrians, door slamming, etc.) must be assessed. The magnet cannot be directly isolated from vibration. Any vibration issue must be resolved at the source.

| | |
|---|-----|
| MAGNET STEADY-STATE VIBRATION SPECIFICATIONS | 450 |
| ACCELERATION g's (10^{-6}) Above ambient baseline | 400 |
| | 350 |
| | 300 |
| | 250 |
| | 200 |
| | 150 |
| | 100 |
| | 50 |
| EXCITATION FREQUENCY [Hz] | |
| | 0 |
| | 10 |
| | 20 |
| | 30 |
| | 40 |
| | 50 |



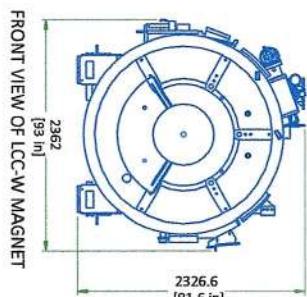
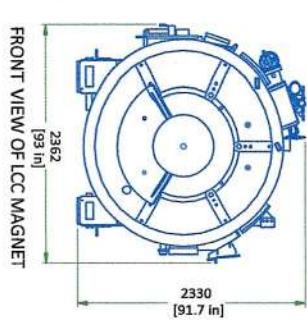
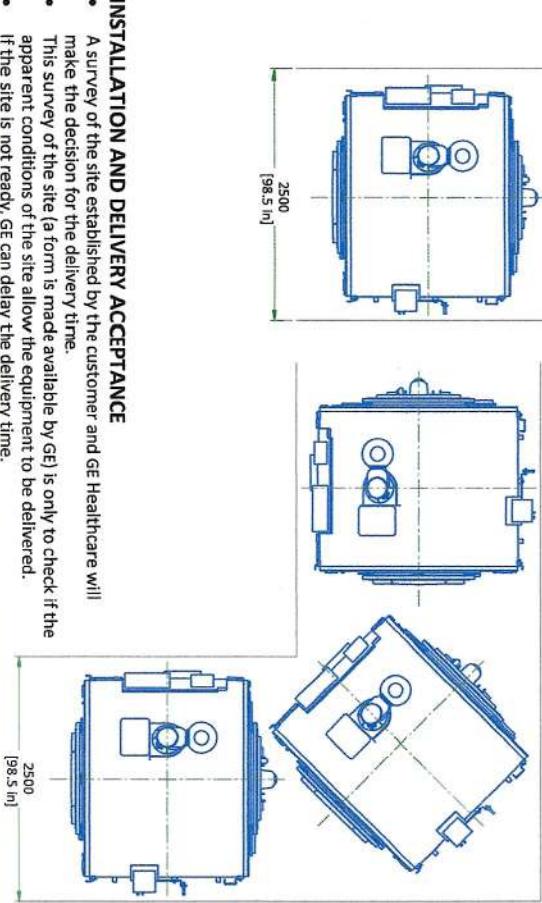
DELIVERY

ROUTING

- The customer is solely liable for routing of components from dock to final site.
- GE must be able to move system components in or out with no need to uncrate or disassemble any of the components. The entire passageway must be cleared, adequately lighted and free from dust.
- The floor and its surfacing must be able to withstand the live load of components and handling equipment.
- Floor surfacing must be continuous.
- The customer must protect any fragile flooring surfaces.

SPECIFICATIONS FOR MAGNET ROUTING

- Floor must be able to withstand a moving load of 53320 kg [11700 lb]
- Recommended opening height: 2.5 m [98.5 in], width: 2.5 m [98.5 in]. If recommended dimensions cannot be met refer to pre-installation manual for detailed specifications.
- Maximum slope: 30 degree



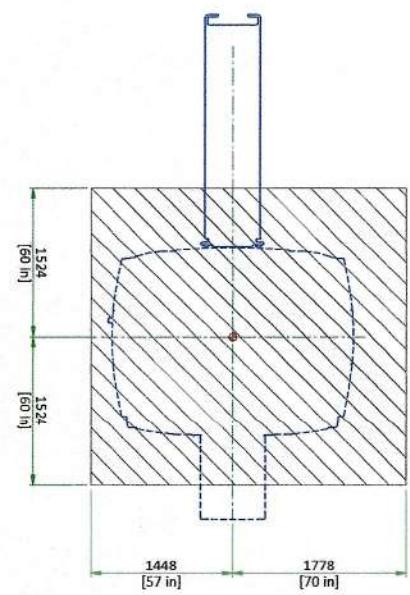
FRONT VIEW OF LCC MAGNET
STRAIGHT PATH

FRONT VIEW OF LCC-W MAGNET
PATH WITH 90 DEGREE TURN

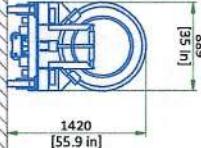
RIGHT SIDE VIEW OF
LCC/LCC-W MAGNET

MINIMUM MAGNET CEILING HEIGHT (TOP VIEW)

Shaded area within solid lines indicates floor to ceiling minimum height of 2500 mm (98.5 in). This drawing is only valid if the quench pipe is leaving vertically from the magnet. If not the minimum height is 2667 mm (105 in).



DIMENSIONS OF THE MAIN REPLACEMENT PARTS



Front view of the BRM Gradient



Side view of the BRM Gradient

| EQUIPMENT | DIMENSIONS LxWxH | | WEIGHT kg | NOTE |
|---|---------------------|------------|--------------|---|
| | mm | in | | |
| Replacement BRM gradient coil assembly on a shipping cradle/cart | 889x2444x1420 | 35x96x55.9 | 1491 | Initial gradient coil assembly is shipped installed in the magnet. Shipping/installation cart is used to install replacement coil assembly only. |

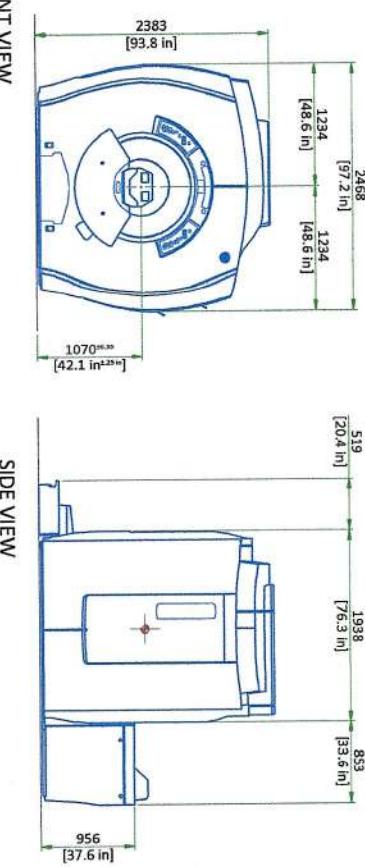
The weight bearing structure of the site should support any additional weight of the main replacement parts occurring during maintenance of the magnet, throughout the whole lifecycle of the MR.

- A survey of the site established by the customer and GE Healthcare will make the decision for the delivery time.
- This survey of the site (a form is made available by GE) is only to check if the apparent conditions of the site allow the equipment to be delivered.
- If the site is not ready, GE can delay the delivery time.

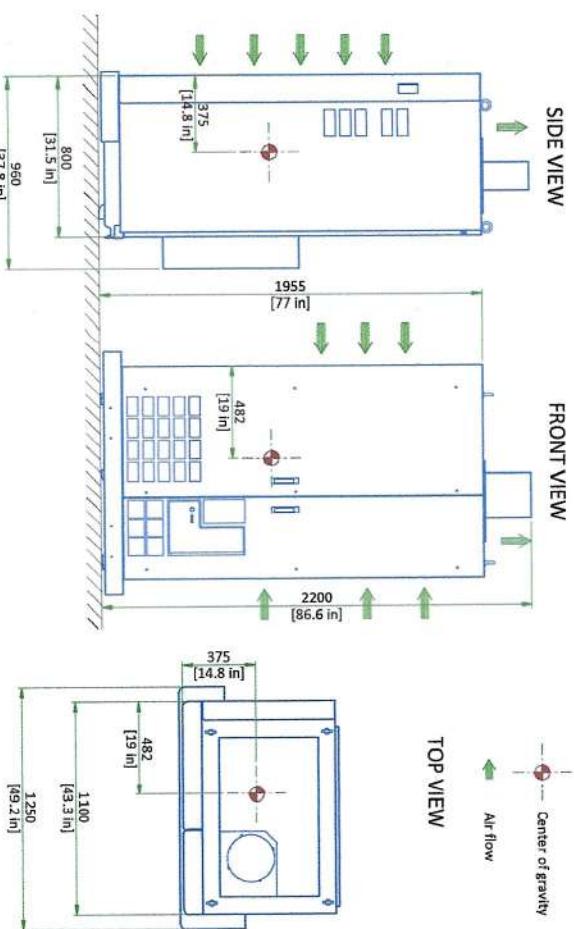
INSTALLATION AND DELIVERY ACCEPTANCE

- The customer is solely liable for routing of components from dock to final site.
- GE must be able to move system components in or out with no need to uncrate or disassemble any of the components. The entire passageway must be cleared, adequately lighted and free from dust.
- The floor and its surfacing must be able to withstand the live load of components and handling equipment.
- Floor surfacing must be continuous.
- The customer must protect any fragile flooring surfaces.

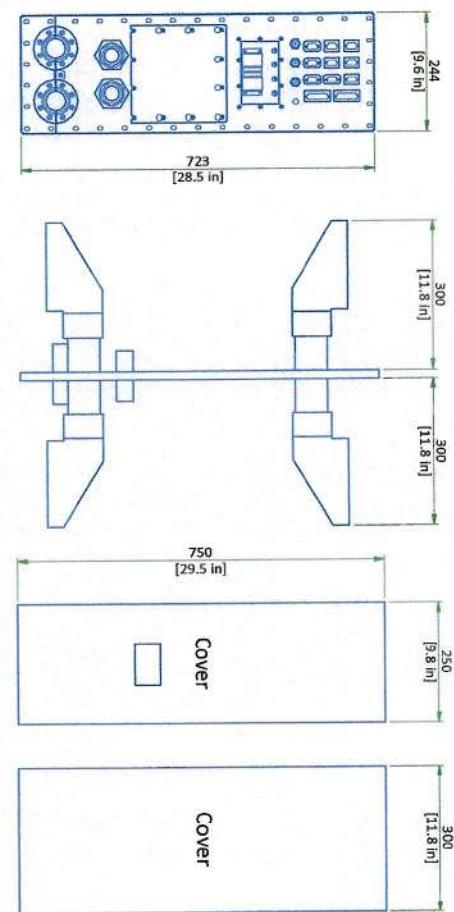
MAGNET ENCLOSURE



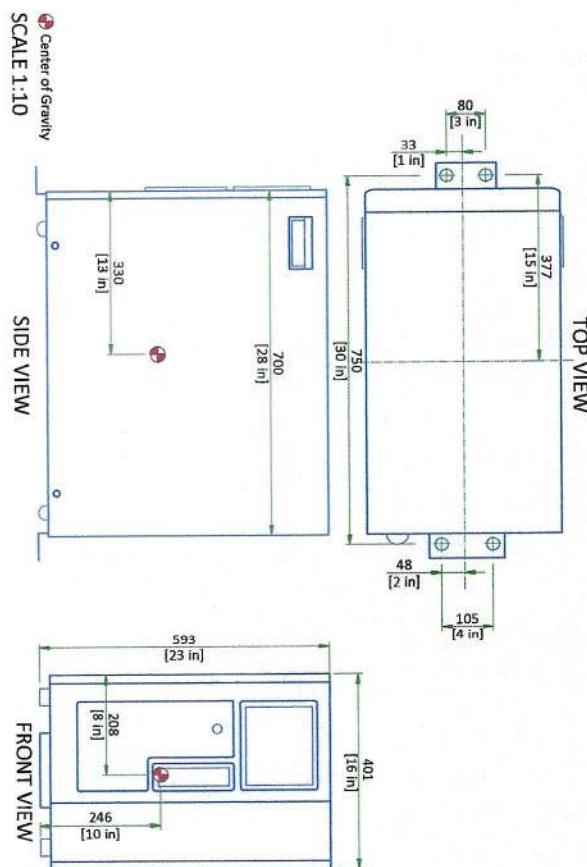
SYSTEM CABINET



PENETRATION PANEL



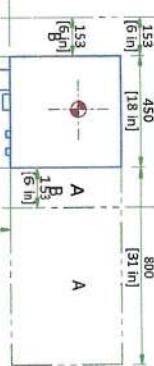
GLOBAL OPERATOR CABINET (GOC)



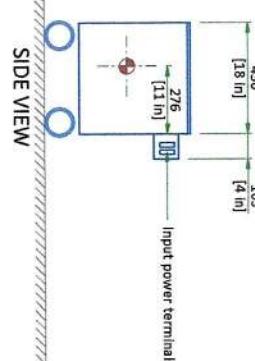
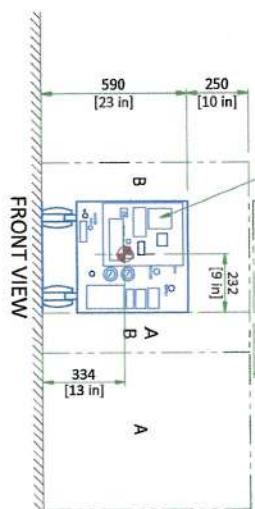
MANU
Cult

CRYOCOOLER COMPRESSOR (CRY)

TOP VIEW

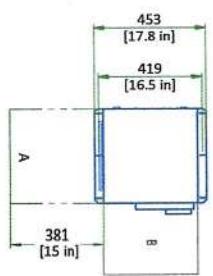


A: Maintenance space
B: Installation Clearance
Center of gravity

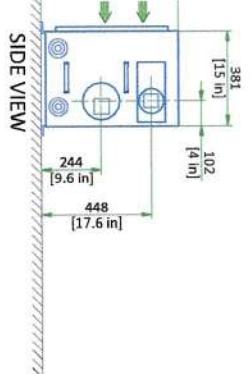
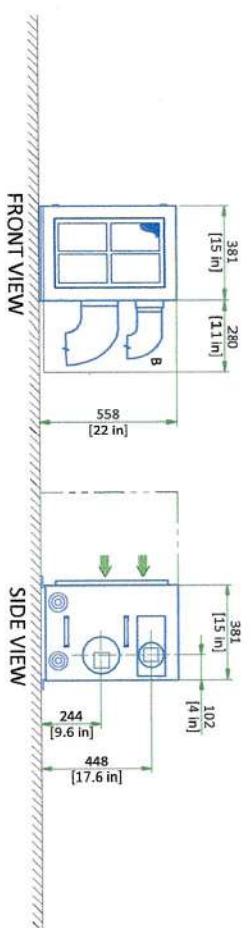


BLOWER BOX

TOP VIEW



A: Air in-take clearance
B: Duct trim cover
Air flow



WATER CHILLERS

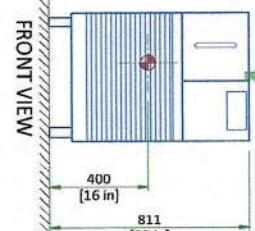
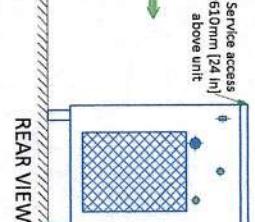
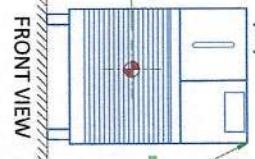
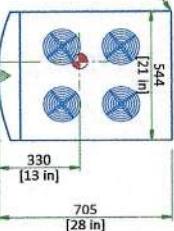
WC1 CHILLER
TOP VIEW



Service access
above unit
Service area
clearance is
457mm [18 in]
from every side
of the chillers.

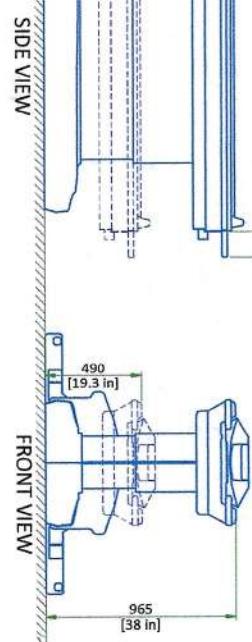
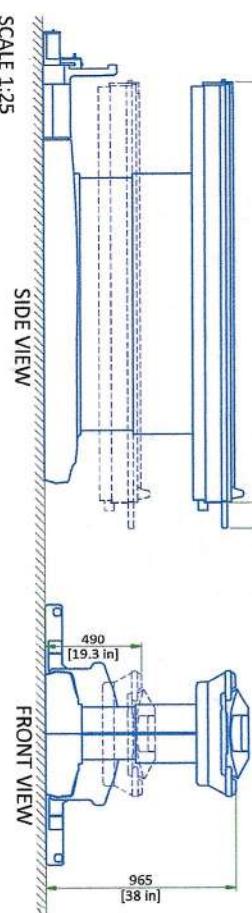
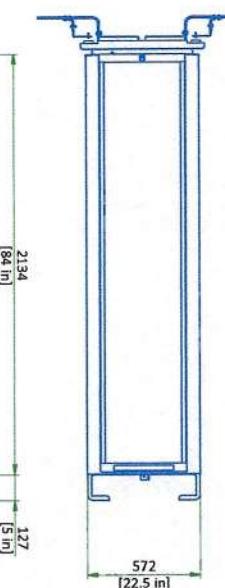
Air flow
Center of gravity

WC2 CHILLER
TOP VIEW



LOW HEIGHT PATIENT TRANSPORT TABLE - FIX

TOP VIEW



FRONT VIEW

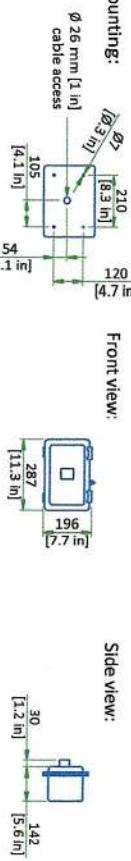
SIDE VIEW

MAGNET MONITOR, MRU, AND OXYGEN MONITOR

MAGNET MONITOR



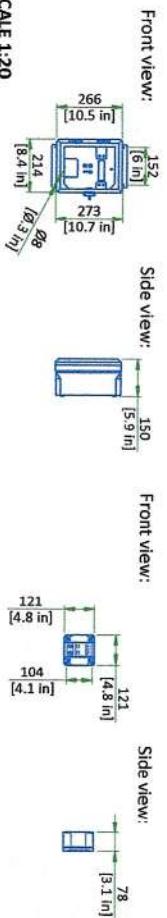
MAGNET RUNDOWN UNIT (MRU)



OXYGEN MONITOR

The bottom edge of the MRU must be mounted 1524 ± 25 mm [60 ± 1 in] above the magnet room floor.

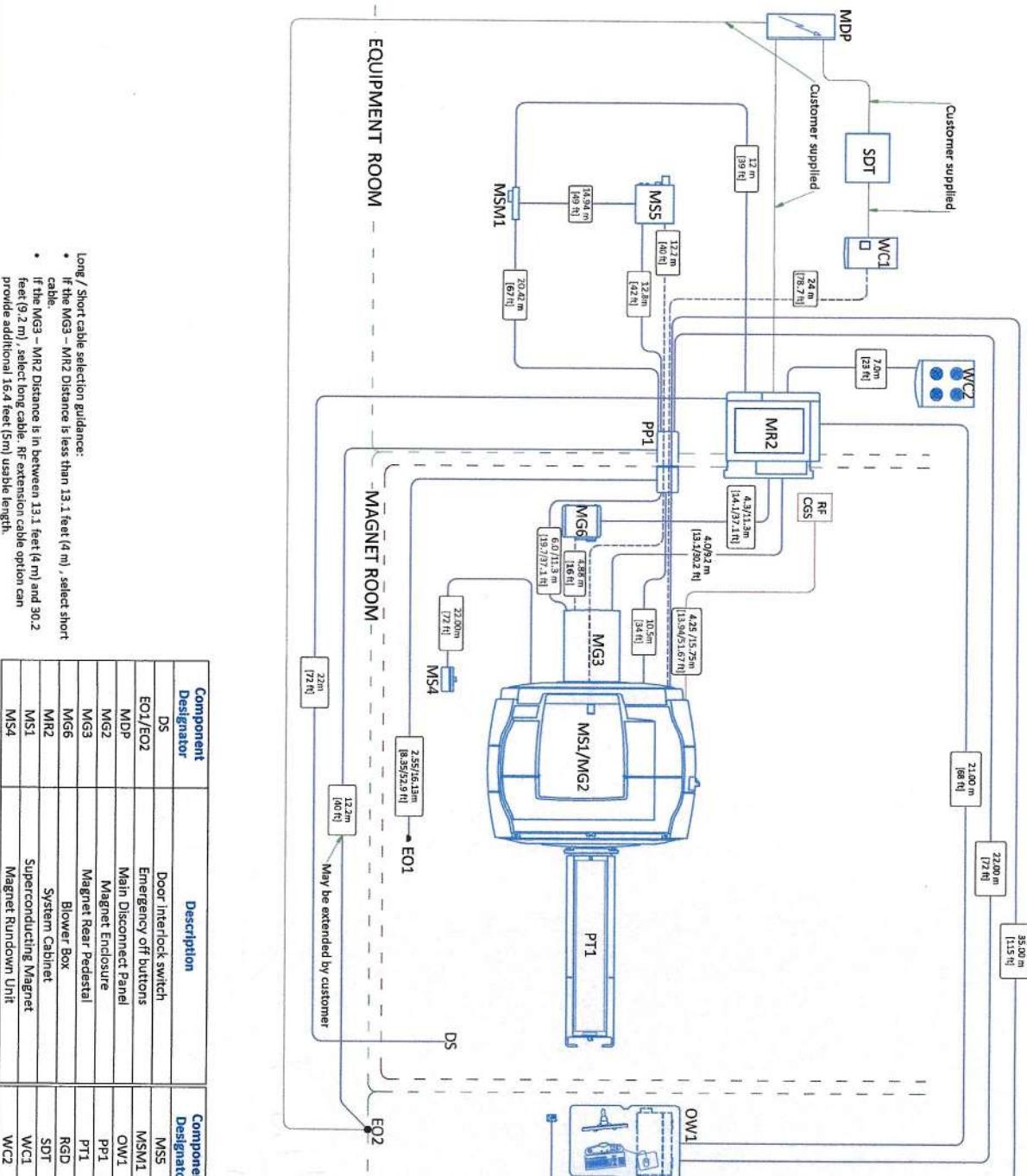
REMOTE SENSOR



SCALE 1:20



INTERCONNECTIONS



- Long / Short cable selection guidance:
If the MG3 – MR2 Distance is less than 13.1 feet (4 m), select short cable.
If the MG3 – MR2 Distance is in between 13.1 feet (4 m) and 30.2 feet (9.2 m), select long cable. If extension cable option can provide additional 16.4 feet (5m) usable length.

| Component Designator | Description | Component Designator | Description |
|----------------------|------------------------|----------------------|---------------------------------------|
| DS | Door interlock switch | MSS | Shield/Cryo Cooler Compressor Cabinet |
| EO1/EO2 | Emergency off buttons | MSM1 | Magnet Monitor |
| MDP | Main Disconnect Panel | OW1 | Operator Work-space |
| MG2 | Magnet Enclosure | P1 | Penetration Panel |
| MG3 | Magnet Rear Pedestal | PT1 | Patient Transport Table |
| MG6 | Blower Box | RGD | Remote Graphic Display |
| MR2 | System Cabinet | SDT | Step Down Transformer |
| MS1 | Superconducting Magnet | WC1 | Water Chiller for BiM |
| MS4 | Magnet Rundown Unit | WC2 | Water Chiller for System Cabinet |

LIGHTING REQUIREMENTS

- All lighting fixtures and associated components must meet all RF shielded room and RF grounding requirements (e.g., track lighting is not recommended due to possible RF noise).
 - All removable lighting fixtures and associated components must be non-magnetic.
 - 300 lux must be provided at the front of the magnet for patient access and above the magnet for servicing.
 - Fluorescent lighting must not be used in the magnet room.
 - Lighting must be adjusted using a discrete switch or a variable DC lighting controller.
 - SCR dimmers or rheostats must not be used.
 - DC LED lighting may be used if the DC power converter and RF sources are all located outside the magnet room RF shield.
- NOTE: LED lighting could cause image quality issues due to RF interference. Make sure a MR-compatible LED lighting solution is chosen.
- Battery chargers (e.g., used for emergency lighting) must be located outside the magnet room.
 - LED Lighting or short filament length incandescent bulbs are recommended.
 - Linear lamps are not recommended due to the high burnout rate.

CONNECTIVITY REQUIREMENTS

Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

- Local connectivity - This allows your system to connect to local devices such as PACS and modality worklist. We will require network information to configure the system(s), and a live ethernet port(s) prior to the delivery of the system(s).
- Remote connectivity - Your GE Healthcare service warranty includes InSite™ (applicable to InSite capable products), a powerful broadband-based service which enables digital tools that can help guard your hospital against equipment downtime and revenue loss by quickly connecting you to a GE Healthcare expert.

Depending on product family and software version, imaging systems can be connected in one of the following methods:

1. TLS over TCP Port 443 (Preferred method for new products) via:
 - a. DNS resolution
 - b. Customer-provided Proxy or
 - c. GE Proxy (Available in some regions)
2. Site-to-Site IPsec VPN tunnel

Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's Connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

DISCLAIMER

CUSTOMER SITE READINESS REQUIREMENTS

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 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.

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

| DATE | NAME | SIGNATURE |
|------------|----------------|---|
| 18/10/2023 | COJO Kavjodh |  |

REQUIRED MANUALS FOR SYSTEM PRE-INSTALLATION

| Product Specific Pre-installation Manual | Description | Document Number* |
|---|---------------------|------------------|
| Magnet Room Venting | Refer to cover page | |
| RF Shielded Room Pre-installation Requirements for MR systems | 5850263 | 5850260 |
| IEC Electromagnetic Compatibility | 5850261 | 5850262 |
| Acoustic Room Details | 2705032 | 2705036 |
| Magnet Venting Conformance Assessment Form | | |

*documents can be accessed in multiple languages at <https://customer-doc.cloud.gehealthcare.com/#/cpd/dashboard>