The intended use for this Cut Sheet is to communicate the spatial requirements as well as the basic architectural, electrical, structural, and mechanical requirements for this piece of imaging equipment. The information provided in this document is for reference only, during the pre-planning stage, and therefore does not contain any site specific detailed requirements. This information is subject to change without notice. Federal, state and/or local requirements may impact the final placement of the components. It is the customer’s responsibility to ensure that the final layout and placement of the equipment complies with all applicable requirements.
BIOGRAPH mCT FLOW AND BIOGRAPH mCT.S/X
TYPICAL ROOM PLAN

The outdoor cooling unit is supplied by Siemens, located and installed by the customer/contractor. The indoor heat exchanger cabinet is supplied and located by Siemens, installed by the customer/contractor. If the system is to be relocated, the outdoor cooling unit is to be disassembled, relocated and reinstalled by the customer/contractor. The indoor heat exchanger cabinet is supplied by Siemens, installed by the customer/contractor.

Siemens recommends the customer provide the following items. All rooms should be in close proximity to the Scanner Room: Patient+Tubing Room, Patient Dressing Room & Equipment Utility Room.

Siemens supplied wall mount manifold and control room.

Pallet, customer/contractor installs and supplies mounting hardware.

Heat exchanger and gearbox must not exceed 65°F.

It is the responsibility of the customer/contractor to provide a means of mounting the PC tower(s) off of finished floor for seismic protection against strong motion, fluids, impact etc.

Siemens supplied wall mount manifold and control room.

Pallet, customer/contractor installs and supplies mounting hardware.

Height difference between heat exchanger and outdoor unit must not exceed 65°F.

The minimum room volume required for the water-air heat exchanger is 424 cubic feet.

It is the responsibility of the customer/contractor to provide a means of mounting the PC tower(s) off of finished floor for seismic protection against strong motion, fluids, impact etc.

Siemens supplied wall mount manifold and control room.

Pallet, customer/contractor installs and supplies mounting hardware.

Height difference between heat exchanger and outdoor unit must not exceed 65°F.

Siemens medical solutions USA, INC.

Cut Sheet for Typical # 13037

Rev. 10

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Scale: 1/8" = 1'-0"
# BIOGRAPH mCT FLOW AND BIOGRAPH mCT.S/X SPECIFICATIONS

<table>
<thead>
<tr>
<th>NO</th>
<th>DESCRIPTION</th>
<th>SMS SYM</th>
<th>WEIGHT (LBS)</th>
<th>BTU/HR TO AIR</th>
<th>DIMENSIONS (INCHES)</th>
<th>REMARKS</th>
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<td>&lt;225</td>
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<td>4</td>
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<td>&lt;30</td>
<td>&lt;1706</td>
<td>9 13/16</td>
<td>29 1/2</td>
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<td>5</td>
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<td>CONTAINER &amp; CONTAINER TABLE FOR ICS/IES (OPTION)</td>
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<td>7,184</td>
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<td>IMAGE RECONSTRUCTION SYSTEM</td>
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<td>MEDIRAD DISPLAY CONTROL UNIT (OPTION)</td>
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<td>CEILING MOUNTED MEDIRAD INJECTOR (OPTION)</td>
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<td>108</td>
<td>-</td>
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</table>
FINISHED ROOM HEIGHT

| FOR BIOGRAPH mCT GANTRY ONLY | RECOMMEND 8’-0” MINIMUM 7’-5”
| CAREVISION MONITOR/CEILING MOUNT | MIN. 9”-10” MAX. 12’-7”
| CEILING MOUNT INJECTOR | MINIMUM 8’-9 1/2”

REMOTE SYSTEM DIAGNOSTICS

SIEMENS REMOTE SERVICES (SRS) REQUIRES A CONNECTION BETWEEN THE SRS REMOTE SERVER AND SIEMENS SYSTEMS VIA REMOTE LOCAL AREA NETWORK ACCESS, TO ENSURE THE UPTIME OF YOUR SYSTEM. A CUSTOMER VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE IS PREFERRED.

CASEWORK & ACCESSORY NOTES

1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.
2) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.

NOISE LEVEL

<table>
<thead>
<tr>
<th>SYSTEM COMPONENT</th>
<th>DECIBEL LEVEL (AT 3’-3” DISTANCE)</th>
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<tbody>
<tr>
<td>PET/CT GANTRY</td>
<td>&lt;68</td>
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<tr>
<td>PHS</td>
<td>&lt;60</td>
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<tr>
<td>PDU CABINET</td>
<td>≤55</td>
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<tr>
<td>POC CABINET</td>
<td>≤55</td>
</tr>
<tr>
<td>IRS TOWER</td>
<td>&lt;55 (1)</td>
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<td>ACS / PRS TOWER PC</td>
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<tr>
<td>HEAT EXCHANGER – WATER/AIR SPLIT</td>
<td>&lt;60</td>
</tr>
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</table>

1) NOISE DEPENDS ON THE ROOM TEMPERATURE AND THE PROCESSOR LOAD.

ENVIRONMENTAL REQUIREMENTS

CLIMATE CONTROL MUST BE PROVIDED 24 HOURS A DAY, 7 DAYS A WEEK. TEMPERATURE SETBACKS ARE NOT ALLOWED. PLEASE SEE EQUIPMENT LEGEND FOR SITE SPECIFIC HEAT DISSIPATION.

SCANNER ROOM: THE SCANNER ROOM SHOULD MAINTAIN BETWEEN 68°F-79°F (± 2.7°F PER HR.) AND A RELATIVE HUMIDITY OF 20-75%. WITH DewPoint BELOW 63°F. A BAROMETRIC PRESSURE: 10.9 TO 15.4 PSI. AIR CONDITIONING MUST BE PROVIDED 24 HRS A DAY, 7 DAYS A WEEK.

EQUIPMENT ROOM: THE EQUIPMENT ROOM SHOULD MAINTAIN BETWEEN 64°F-86°F AND A RELATIVE HUMIDITY OF 20-75%, A BAROMETRIC PRESSURE: 10.9 TO 15.4 PSI.

CONTROL ROOM: THE CONTROL ROOM SHOULD MAINTAIN BETWEEN 68°F-79°F AND A RELATIVE HUMIDITY OF 20-75%. A BAROMETRIC PRESSURE: 10.9 TO 15.4 PSI.

EXTERIOR AIR VENTS SHOULD BE EQUIPPED WITH A FILTRATION SYSTEM OF THE FILTER CLASS EU3 TO EU4 TO FILTER DUST PARTICLES UP TO >10μm.

THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULPHIDE, EVEN IN SMALL AMOUNTS. THE MOST COMMON SOURCES FOR HYDROGEN SULFIDES ARE:

EXHAUST FUMES AND WASTE WATER OF FILM PROCESSORS, EXPOSED SEWER DRAINAGE – NON SYPHON INCLUDED, SEWER PIPE OR IN FLOOR DRAIN, EXHAUST FUMES FROM DIESEL POWER UNITS, EMERGENCY POWER, ETC.

IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS IS REQUIRED E.G.,

EXTRACTOR FANS
SYPHON MODIFICATION OF VENTILATION INTAKE, ETC.

FOR MORE INFORMATION

FOR MORE DETAILED PLANNING REQUIREMENTS FOR THIS SYSTEM, SEE THE TYPICAL FINAL DRAWING SET NUMBER: TYPICAL #13037

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SIEMENS

BIOGRAPH mCT FLOW AND BIOGRAPH mCT.S/X
SPECIFICATIONS

RADIATION AND STORAGE CONSIDERATIONS
THE CT PRODUCES RADIATION WHILE PERFORMING BIOGRAPH mCT FLOW OR BIOGRAPH mCT SCANS. RADIATION CONCERNS FOR PET LIE IN THE USE OF RADIOACTIVE ISOPODES FOR CLINICAL SCANNING OR SERVICE SCANS.
A STORAGE AREA MUST BE DESIGNATED FOR SOURCES UNTIL INSTALLATION TO LIMIT EXPOSURE.
ADDITIONAL RADIATION CONSIDERATIONS:
STATIC MAGNETIC FIELD: B < 100 µT
MAGNET FIELD VARIATION: ΔBeff < 25 µT
BACKGROUND RADIATION: <1.0 µSv/h (1mR/h) 6 FT FROM CENTER OF FIELD OF VIEW

RADIOACTIVE SOURCES
THE FOLLOWING RADIOACTIVE SOURCES ARE REQUIRED AT THE TIME OF DELIVERY FOR CALIBRATION:

Ge-68 (GERMANIUM-68) LINE SOURCES
QUANTITY OF TWO LINE SOURCES
Ge-68 (GERMANIUM-68) CYLINDRICAL PHANTOMS

IT IS CUSTOMER'S RESPONSIBILITY TO OBTAIN THESE SOURCES.
SOURCE PROVIDERS WILL NOT SHIP SOURCES TO SITE WITHOUT A VALID RAM LICENSE.

RAM LICENSE
A VALID RAM LICENSE IS REQUIRED 4 WEEKS BEFORE SYSTEM DELIVERY.
SOURCE PROVIDERS WILL NOT SHIP THE SOURCES TO THE SITE WITHOUT A RAM LICENSE.

IT IS THE CUSTOMER'S RESPONSIBILITY TO WORK WITH THEIR RADIATION SAFETY OFFICER AND THE GOVERNMENT AGENCY TO SECURE THE RAM LICENSE.

RADIATION SCATTER

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-78.7,-59.1,-39.4,-19.7,0,19.7,39.4,59.1,78.7

RADIATION SAFETY
LEAD OR EQUIVALENT SHIELDING MAY BE REQUIRED IN THE WALLS OF THE SCANNER ROOM, HOTLAB AND/OR PATIENT PREPARATION AREAS. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO VERIFY WITH THE SITE'S RADIATION SAFETY OFFICER THAT RADIATION DOSE RATES FROM THE PET PATIENT AND/OR ISOPODE WILL NOT EXCEED LOCAL RADIATION SAFETY GUIDELINES IN THE ROOM ADJACENT TO SCANNER, HOTLAB, AND/OR PATIENT PREPARATION AREAS.

IMPROPER SHIELDING MAY AFFECT CAMERA'S PERFORMANCE.
BIOGRAPH mCT FLOW AND BIOGRAPH mCT.S/X SPECIFICATIONS

RADIATION SCATTER

BIODEGRAPH mCT FLOW/BIOGRAPH mCT

VERTICAL LOCAL DOSE DISTRIBUTION
MEASUREMENT IN uGy/mAs SCALE 1/4"=1'-0"

SCANNING WAS PERFORMED USING A MAXIMUM SLICE THICKNESS OF 64 x 0.6 mm (38.4 mm) AT 140 kV THROUGH THE SYSTEM AXIS IN THE VERTICAL PLANE. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32 cm IN DIAMETER, 16 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

CHILLED WATER

THE GANTRY IS COOLED WITH CHILLED WATER IN A CLOSED LOOP CONNECTION FROM THE ON-SITE CHILLED WATER SUPPLY. AN ON-SITE CONNECTION TO THE CHILLED WATER SUPPLY MUST BE AVAILABLE TO SUPPLY THE MANIFOLD LOCATED INSIDE THE GANTRY. THE REQUIRED WATER TEMPERATURE IS 39°F TO 54°F. THE WATER TEMPERATURE OF THE ON-SITE COOLING CIRCUIT CANNOT BE < 39°F. THE MINIMUM OPERATING PRESSURE IS 29 TO 87 PSI, (MAX. 145 PSI). THE MINIMUM FLOW RATE DEPENDS ON THE WATER TEMPERATURE. THE WATER SUPPLY AND PUMP CAPACITY MUST BE CAPABLE OF MAINTAINING THE MINIMUM PRESSURE DIFFERENTIAL AT THE REQUIRED TEMPERATURE AND FLOW RATE. HEAT DISSIPATION TO THE WATER IS 61,473 BTU/HR.

GANTRY COOLING

THE GANTRY IS COOLED WITH CHILLED WATER IN A CLOSED LOOP CONNECTION FROM THE HEAT EXCHANGER. THE HEAT EXCHANGER CABINET IS COOLED WITH CHILLED WATER IN A CLOSED LOOP CONNECTION FROM AN OUTDOOR COOLING UNIT. THE AMBIENT AIR TEMPERATURE RANGE REQUIRED FOR THE OUTDOOR COOLING UNIT IS ~22" TO 122" (~40" TO 122" WITH FLOW HEATER OPTION). BTU/HR TO AIR (EXHAUST) IS 119,425.
### POWER REQUIREMENTS

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>SYSTEM VOLTAGE (VOLTS)</th>
<th>POWER CONSUMPTION (kVA)</th>
<th>SYSTEM IMPEDANCE (mO)</th>
<th>MINIMUM SYSTEM SUPPLY (A)</th>
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<tbody>
<tr>
<td>BIOGRAPH mCT FLOW AND BIOGRAPH mCT.S/X 100kW</td>
<td>3φ 480/277Y ±10%</td>
<td>SEE BELOW</td>
<td>≤ 125</td>
<td>150</td>
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POWER CONSUMPTION WITH STANDARD WATER/WATER (FACILITY CHILLED WATER)

OPERATION = 150 kVA MOMENTARY ≤ 5 SEC.
SYSTEM ON (STAND-BY) = 10 kVA (6 FOR PET, 4 FOR CT)
SYSTEM ON (COMP ON) = 8.5 kVA (6 FOR PET, 2.5 FOR CT)
SYSTEM OFF = 6 kVA (4.3 FOR PET, 1.7 FOR CT)

IF AN ON-SITE TRANSFORMER IS REQUIRED TO OBTAIN BIOGRAPH mCT FLOW AND BIOGRAPH mCT OPERATING VOLTAGE, IT MUST BE OF SUFFICIENT CAPACITY AND CHARACTERISTICS TO MAINTAIN SUPPLY VOLTAGE AND IMPEDANCE REQUIREMENTS (TRANSFORMER AND CONDUCTORS).

DO NOT CONNECT ANY EXTERNAL UNITS TO THE BIOGRAPH BIOGRAPH mCT FLOW AND BIOGRAPH mCT POWER LINES. THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.
MAXIMUM DISTANCES

The maximum distance between components is calculated as the distance from cable outlet to cable outlet. Various arrangements of components are possible as long as the distances shown below are not exceeded and the required minimum safety distances are maintained.

To avoid interference, the following minimum distances have to be maintained:
- PDU/PDC <--- CRT Monitor: Minimum 3' - 2''
- Gantry <--- EEG-Workstation: Minimum 16' - 4'' - Minimum distance between the line voltage cables = 19' - 6''
- Gantry <--- EEG-Workstation: Minimum 19' - 6'' - Minimum distance between the line voltage cables = 19' - 6''

SIEMENS MEDICAL SOLUTIONS USA, INC.
# FLOOR REQUIREMENTS

The engineer of record of the building shall provide support structure designed to support all weights and forces. The engineer of record for the building and Siemens engineering shall jointly review deviations from the following requirements.

It is the customer's responsibility to contract a qualified specialist to implement site modifications that meet these specific limits and to design structural solutions in case of deviations.

1) The minimum allowable concrete thickness for nonseismic regions of the scanner room floor is 4.5".
2) The conditions of flooring, vibration-free location, and/or installation of the gantry and patient table only:

   - Concrete flooring
     - Concrete class C20/25 to C50/60
     - According to DIN 1045-1, DIN 1045-2

3) The concrete properties:

   - Compressive strengths: recommended concrete is > 20 MPa (2,000 psi)
   - Compressive modulus of elasticity: concrete shall be > 20,864 MPa (3,000,000 psi)
   - Flexural modulus of elasticity: concrete shall be > 20,864 MPa (3,000,000 psi)
   - Concrete must be cured at least 28 days prior to machine installation. Concrete flooring to be tested by a structural engineer.

4) The evenness and levelness of the floor:

   - Levelness:
     - Variation of the floor levelness in the gantry and PHS areas should not exceed .5 inches over the entire footprint of the system.
     - Variation is to be measured at the gantry and PHS mounting points.

5) The floor covering requirements:

   - Floor covering:
     - Vinyl floor covering with a minimum static load limit rating of 5.2 MPa (750.0 psi reference ASTM 970) is recommended under the gantry and PHS. Soft floor covering are subject to gradual movement (creep).
     - Remove all floor covering in the load bearing areas.
     - Installation of the Biograph mCT on a floating floor without sub-constructions is prohibited.

6) The machine base pad (optional) to be created and adhere to the concrete floor with the approval from the site engineer of record using grouting material Epicor 756 (L&M Construction Chemicals, Inc 1-800-352-3331) or Masterflow 648 (BASF 1-800-243-6739) to address the following conditions:

   - To increase the floor thickness
   - To correct levelness of the floor
   - To increase the reducing interference between mounting anchors and rebar
   - Repair concrete holes
   - Required 3" machine base pad when utilizing surface mount duct under the gantry.

    The machine base should be minimum of 1" and a maximum of 2 1/2" thick, unless utilizing surface mount duct under the gantry 3" thick required and applied directly to a clean concrete surface with not intermediate materials between the concrete and the Epicor.

    If the machine base pad is used, solid aluminum spacers (supplied by the customer) with no intermediate materials will be needed beneath the PET gantry service rails. Each spacer must have a height matching the height of the machine base pad and must be 31" long and 4" Wide. Site manager is responsible for having the spacers custom built to these dimensions.

7) The anchor properties:

   - Tensile capacity:
     - Allowable tension load capability for embedded concrete anchors shall be greater than 1000.0 lb.

   - Anchor depth:
     - Anchor embedment depth and concrete thickness shall comply with ICBG guidelines for the anchor.

   - 4" Drill depth typical for adhesive anchoring

   - Biograph mCT shall be fastened to the floor and/or machine base pad with grade 5, 1/2-13 UNC-2A threaded fasteners as supplied by Siemens.

   - Minimum extraction force according to the IEC 60601-1 safety factor of 4 has to be observed.
# BIOGRAPH mCT FLOW AND BIOGRAPH mCT.S/X SPECIFICATIONS

## TRANSPORT AND DELIVERY

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total CT Gantry Transport Device Weight</td>
<td>5,267 LBS.</td>
</tr>
<tr>
<td>CT Gantry Without Covers and Transport Device</td>
<td>5,026 LBS.</td>
</tr>
<tr>
<td>CT Transport Device</td>
<td>417 LBS.</td>
</tr>
</tbody>
</table>

**NORMAL TRANSPORT REQUIREMENTS:**
During the movement of the gantry through corridors the transport casters are swiveled out for stability. See maximum width and minimum length above for transport casters swiveled out.

**NARROW SPACE TRANSPORT REQUIREMENTS:**
When transporting the gantry through a narrow space or doorway the transport casters are swiveled in as shown in this sketch.

As soon as the system passes through the narrow space the transport caster must be swiveled out to avoid tipping hazard.

**TOTAL PET GANTRY TRANSPORTING DEVICE AND STABILIZER WEIGHT:** 2,830 LBS.

- PET Gantry Transport Device: 532 LBS.
- PET Gantry Stabilizer: 100 LBS.

**NORMAL TRANSPORT REQUIREMENTS:**
When transporting the gantry through a narrow space or doorway the transport casters are swiveled in as shown in this sketch.

**FLOOR LOAD DURING TRANSPORT FOR BOTH GANTRIES:**
Access floors have to be designed for a weight capacity of a minimum of 882 LBS. per slab/plate. During transport of the gantries, the load may be higher at certain individual points due to uneven flooring. If required, cover the transport route with metal sheets for load distribution.

Lifting gantries with crane:
If gantries need to be lifted craning basket must be used.