

WAREHOUSE B32006
V.A. Medical Center
50 IRVING STREET NW
WASHINGTON, DC 20422

PO# 688-B32006

All items listed below are included for this system: (See Detailed Technical Specifications at end of Proposal.)

Qty	Item Description
1	SOMATOM Definition AS (20 Slice) The SOMATOM Definition AS (AS, 20-slice configuration) is Siemens' state-of-the-art single source CT that offers the possibility to maximize clinical outcome and to minimize radiation dose. The ultimate goal is to provide medical professionals more time to take better care of their patients. With this, it is set to raise the standard of patient-centric productivity. Using Siemens' z-Sharp technology the SOMATOM Definition AS can provide fast sub-millimeter volume coverage and very high spatial resolution. The high rotation time of 0.33 seconds (optional) delivers excellent temporal resolution. With Siemens' new FAST - Fully Assisting Scanner Technologies - the SOMATOM Definition AS can simplify typically time consuming and complex procedures: the scanning process gets more intuitive and the results become more reproducible. Its comprehensive low dose portfolio includes many unique features like CARE kV that sets the ideal voltage for every examination or industry's first Adaptive Dose Shield that prevents clinically irrelevant over-radiation in spiral scanning. Additionally, its large bore of 78 cm opens CT to all patients, meaning that virtually no patient is excluded.
1	FAST CARE Platform Siemens' unique FAST CARE platform is set to raise the standard of patient-centric productivity. Utilizing FAST - Fully Assisting Scanner Technologies -, typically time-consuming and complex procedures during the scan process are extremely simplified and automated, not only improving workflow efficiency, but optimizing the overall clinical outcome by creating reproducible results, making diagnosis more reliable and reducing patient burden through streamlined examinations. Siemens' desire for as little radiation exposure as possible lies at the heart of the CARE - Combined Applications to Reduce Exposure - research and development philosophy offering a unique portfolio of dose saving features, many of them being introduced as industry's first.
1	CARE Child Dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols
1	Gantry tilt incl. tilted spiral Allows for sequential scanning with a tilted gantry between +/- 30°, depending on the vertical position of the table. Using the gantry tilt sensitive organs (like eye lenses) can be moved out of the scan range or it eases access during interventional procedures. The tilted spiral allows to utilize the gantry tilt for spiral scan modes.
1	Extended Field of View #AWP Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 78 cm (non-diagnostic image quality). License to use software on a single unit.

1	SOMATOM Definition AS SOMATOM Definition AS Basic configuration
1	Rear cover incl. gantry panels Rear Cover including gantry control panels with control functionality from the backside.
1	Keyboard English Keyboard in the above-mentioned language.
1	Cooling System Water Water heat exchanger for the dissipation of heat loss generated in the gantry to an environmentally friendly cooling water circulation system. This optimizes system availability independently of the ambient conditions. System operating temperature: 18 - 28 degrees C, 18 - 75 % rel. humidity (not condensing).
1	Hose pipe insulated 30 m Hose pipes to connect the "Cooling System" with the gantry.
1	Cooling System Water/Air #split Water-to-air heat exchanger for the dissipation of heat loss generated in the gantry to the outside air. System operating temperature: 18 - 28 degrees C, 18 - 75 % rel. humidity (not condensing). Ideal for installation far from the scan room. Cooling system contains to units, water/water exchanger close to the scan room and an additional remote water/air exchanger. Maximum distance between water/water unit and remote water/air exchanger up to 40 meters enabled by thin diameter of water transferring pipes.
1	Trafo for Cooling system Water/Air The Trafo powers the Cooling System Water/Air
1	Service Switch Service switch to shut off the outdoor cooling unit for maintenance or in case of emergency
1	Cable loom 25 m Cable loom used to connect the power distribution system (PDS) with the gantry.
1	Patient Table 2000 mm Patient table to support up to 200cm scan range. Motor-driven table height adjustment from min. 48 cm to max. 92 cm, longitudinal movement of the tabletop 200 cm in increments of 0.5 mm, positioning accuracy +/- 0.25 mm from any direction. Horizontal scan range 200 cm. Table height can be controlled alternatively by means of foot switch (2 each on both sides of the patient table). In the case of emergency stop or power failure, the tabletop can also be moved manually in horizontal direction. Max. table load: 227 kg/500 lbs, Table feed speed: 2-200 mm/s, Distance between gantry front and table base 40 cm. Positioning aids: Positioning mattress, mattress protector, head-arm support (inclusive cushion), and non-tiltable head holders with positioning cushion set, patient restraining system for head fixation, restraining-strap set with body fixation strap that can be directly connected to the patient table top, headrest, table extension with positioning mattress, knee-leg support.
1	Physiological Monitoring Module The Physiological Monitoring Module allows to connect a 3 Channel ECG cable for ECG controlled cardiac acquisition.
1	Mattress with Spill Protection This mattress is ideal for trauma and acute care settings. The mattress has wide flaps and offers additional protection by preventing liquids spilling into the table by covering the gaps between table top and the table base.
1	Table Side Rails Side rails enable the quick and easy attachment of additional accessories such as an infusion bottle holder and i-control intervention module to the standard patient table.

1	Computer Desk #AWP New CT desk to accommodate the control components and color monitor. Width: 1200 mm, Depth: 800 mm, Height: 720 mm.
1	Computer Cabinet #AWP New cabinet to accommodate the computer system and UPS. Matched to the design of the control console table. Width: 800 mm, Depth: 800 mm, Height: 720 mm
1	Intervention Pro
1	i-Fluoro
1	Foot Switch Foot switch for triggering scans from the gantry and the patient positioning table areas.
1	19" flat screen monitor The 19" monitor option supports CT interventions and CT fluoroscopy with a display in the examination room.
1	Ceiling Support Intervention Ceiling support for the accommodation and safe installation of one or two flat screen monitors in the examination room for room heights from 2640 mm to 3680 mm.
1	Ceiling Kit for Single Monitor Ceiling support for accommodation and safe installation of a flat screen monitor in the examination room. The space-saving ceiling installation along with the large movement range of the support allow maximum operating convenience when positioning the monitor. Consisting of: Ceiling support with installation kit, voltage supply, video transmitter, video receiver, power supply cable and a 30 m fiber-optic cable set for connecting the flat screen monitor.
1	CT Project Management
1	CT Standard Rigging and Installation
1	Initial onsite training 32 hrs
1	Additonal onsite training 32 hours
1	Stellant Dual Flow CT Inj.(Ceiling-long)
1	HARDWIRED TYPE 2 Surge protective Device
1	Grey anti-fatigue floor mat for hospital
1	Riedel Chiller Start-up by SBT
1	Low Contrast CT Phantom & Holder One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.
1	TWO SETS OF SERVICE AND OPERATORS MANUALS
1	Initial onsite training 32 hrs GovOffset
1	Offset one additional onsite training 32 hrs (\$7,400)

Qty

Item Description

1

X-CARE

Partial scanning to reduce direct X-ray exposure for the most dose-sensitive body regions, e.g. the breasts, thyroid gland or eye lens

Detailed Technical Specifications

SOMATOM Definition AS 20-slice Configuration

/ Product	Description
SOMATOM Definition AS (20 Slice)	<p>The SOMATOM Definition AS (AS, 20-slice configuration) is founded on Siemens' proprietary UFC detector system and the revolutionary STRATON X-ray source. In combination with Siemens' z-Sharp Technology, FAST (Fully Assisting Scanner Technologies) and CARE (Combined Applications to Reduce Exposure) solutions as well as Siemens exclusive CT Clinical Engines options, the SOMATOM Definition AS (AS, 20-slice configuration) offers unprecedented image quality and detail at significantly reduced patient exposure, as well as substantially increased diagnostic speed and confidence thus raising the standard of patient-centric productivity.</p> <p>The STRATON source provides direct oil cooling of the anode, eliminating the need for heat storage capacity (0 MHU). The resulting small and compact design enables an unprecedented cooling rate of 7.3 MHU/min as well as reliable performance even when operating at a high rotation time of 0.33 sec (optional). In combination with the HeartView CT option temporal resolution of 165 ms (optional) of the SOMATOM Definition AS (AS, 20-slice configuration) allows scan even high heart rates.</p> <p>With the high isotropic resolution of 0.4 mm voxel size, it visualizes small anatomical structures with exceptional quality. Neuro head image quality is significantly improved with Neuro BestContrast, by optimizing grey/white matter differentiation without increase in radiation dose.</p> <p>The UFC (Ultra Fast Ceramics) detector of the SOMATOM Definition AS (AS, 20-slice configuration) acquires 20 slices per rotation.</p> <p>In combination with a 78 cm large bore, 200 cm scan range (optional), and the 80 kW generator power, it adapts to virtually any patient independent of size or condition, helping to save precious time from scan to diagnosis.</p> <p>With all this, the SOMATOM Definition AS (AS, 20-slice configuration) offers high image detail and sub-millimeter volume coverage enabling fast whole body examinations - adapting to challenging patients such as poly-trauma and incautious or uncooperative patients, leading to an improvement in image quality and patient comfort.</p> <p>Siemens has developed many significant products and protocols that follow the "As Low as Reasonably Achievable" (ALARA) principle to reduce radiation dose to the lowest possible level. This desire for as little radiation exposure as possible lies at the heart of our CARE – Combined Applications to Reduce Exposure - research and development philosophy. The SOMATOM Definition AS (AS, 20-slice configuration) consequently offers a unique portfolio of dose saving features, many of them being industry's first like the Adaptive Dose Shield, CARE kV or 70kV scan modes. Using Siemens' CARE solutions radiation dose can be significantly reduced compared to conventional CT systems.</p> <p>With the introduction of Siemens' unique FAST CARE platform, the SOMATOM Definition AS (AS, 20-slice configuration) is set to raise the standard of patient-centric productivity. Utilizing FAST – Fully Assisting Scanner Technologies -, typically time-consuming and complex procedures during the scan process are extremely simplified and automated, not only improving workflow efficiency, but optimizing the overall clinical outcome by creating reproducible results, making diagnosis more reliable and reducing patient burden through streamlined examinations.</p> <p>With its unique Adaptive 4D Spiral scan mode (optional) the SOMATOM Definition AS (AS, 20-slice configuration) overcomes the coverage limitations in dynamic CT imaging when using a static detector and allows for up to 8 cm coverage in dynamic CT imaging.</p> <p>In addition the SOMATOM Definition AS (AS, 20-slice configuration) optionally offers a built in 3D minimal invasive suite, enabling 3D guided interventions with full control of the radiologist due to the all new wireless in-room control.</p> <p>Also the SOMATOM Definition AS (AS, 20-slice configuration) offers the widest range of clinical applications options, which allow performing everything from fast and confident diagnoses to comprehensive reporting in only a matter of minutes, reviewing results before the patient is off the table.</p>

Product	Description
<p>(Continued)</p> <p>SOMATOM Definition AS (20 Slice)</p>	<p>1. Gantry: Aperture: 78 cm; power supplied via low-voltage slip ring. Scanning system: Rotational speed of the gantry: Rotation time of 0.5 (0.33 sec optional). Detector system based on Siemens' proprietary UFC (ultra fast ceramics) with 14,720 elements, 20 detector electronic channels (DAS) utilized for up to 20 slices/rotation acquisition, and 1,472 measuring channels per slice (The measuring system can contain replacement components).</p> <p>In cases of very low signal at the detector (e.g. when scanning bariatric patients), the Adaptive Signal Boost improves image quality by amplifying individual pixels based on an analysis of the surrounding image data. It reduces streaks and noise and maintains the correct HU values for large patients.</p> <p>Spiral acquisition modes 20-slice configuration: 20 x 0.6 mm, 10 x 0.6 mm, 16 x 1.2 mm</p> <p>Sequence acquisition modes 20-slice configuration: 20x0.6 mm, 2x1mm, 6x1.2 mm, 16x1.2 mm, 12x1.2mm, 1x5 mm, 1x10 mm</p> <p>Three laser light markers: Horizontal, sagittal, and vertical laser light that shows the isocenter position of the scan plane.</p> <p>2. Tube Assembly: Source: STRATON high performance X-ray source. Tube current range: Single source 20-666 mA; Tube anode heat storage capacity 0 MHU. Cooling rate 7.3 MHU/min (5,400 kJ/min). Focal spot size according to IEC 60336: 0.7 x 0.7 mm/7°, 0.9 x 1.1 mm/7°. Computer controlled monitoring of anode temperature, Multifan principle with flying focal spot.</p> <p>3. High Power X-ray Generator: Microprocessor-controlled, low-noise high-frequency generator with integrated, automatic self-testing system for continuous monitoring of operation. Settings: High-voltage range 70, 80, 100, 120 and 140 kV; power max. 80 kW, adjustable in fine steps.</p> <p>4. Control and Evaluation Unit: Control box: CT control with patient intercom, user-recordable patient instruction system, 30 automatic patient instruction (API) text pairs are available in nine languages.</p> <p>syngo Acquisition Workplace: The syngo Acquisition Workplace provides an intelligent and reliable workflow for data acquisition, image reconstruction and routine post-processing at the CT scanner. Built on the unique syngo platform, the syngo Acquisition Workplace is intuitive and user friendly. Computer system: High-performance computer with 1x Xeon QC6700, 2.66GHz, NVIDIA Quadro FX1700 DVI DVI graphics card for fast 3D post-processing. High resolution, flicker free, 19-inch (48 cm) color flat panel display for medical diagnostic applications combining the demanding requirements of medical imaging with the advantages of liquid crystal displays. This display provides a resolution of 1280 x 1024 and has a wide viewing angle, features high contrast even under high ambient light conditions. Display light output stability is ensured by controlled backlight throughout the whole lifetime. Keyboard and mouse, 8 Gbyte RAM, 146 Gbyte image storage for 260,000 uncompressed images, CD-R 700 MB for 1,100 images. DVD DICOM with 4.7 GB media for 8,400 images. External USB 2.0 devices for data storage are supported (recommended: Iomega 160 Gbyte External Hard Drive Hi-Speed USB 2.0; Maxtor One Touch 160 Gbyte External Hard Drive).</p> <p>5. CT Image Computer System: Reconstruction computer for the preprocessing and reconstruction of the CT raw data. The reconstruction computer contains of a cluster of 2,2 GHz dual kernel high-performance processors performing the preprocessing and reconstruction of the CT data with up to 20 images per second. The raw data memory is 450 Gbyte.</p> <p>6. Cooling System: SOMATOM Definition AS (AS, 20-slice configuration) can be equipped with either air or water cooling adapting to your room requirements. This optimizes system availability independently of the ambient conditions and reduces expensive reconstruction costs. System operating temperature: 18-28°C, 18 - 75 % rel. humidity (not condensing).</p> <p>7. syngo User Software: syngo features an intuitive and thus easy-to-learn user interface developed from prototypes in close cooperation with users. syngo visualizes the examination in individual process steps on so-called task cards, such as patient registration or examination card. A large number of functions and input parameters as well as the language</p>

/ Product	Description
<p>(Continued)</p> <p>SOMATOM Definition AS (20 Slice)</p>	<p>used can be selected according to individual requirements. Frequently repeated processes can be automated and saved.</p> <p>Patient registration: The system can accept patient data in different ways. These include entering the data via keyboard or transfer of a worklist via network. DICOM Worklist: Software module for accepting lists of patient data and exam requirements from a Radiology Information Systems (RIS) via DICOM Get Worklist functionality. The program enables very efficient working and ensures consistent patient data. In emergency cases, fast registration is possible. Here the system automatically assigns an emergency number which can later be replaced by the actual patient number. The input profile can be designed individually.</p> <p>Examination card: The SOMATOM Definition AS (AS, 20-slice configuration) is delivered with a large number of predefined examination protocols (e.g. for pediatric applications), making examination planning a very fast and efficient procedure. Example: A three-phase examination of the liver available as independent protocol only needs to be adapted to the patient's individual situation. Each examination is represented pictorially as a so-called "chronicle", which views the individual phases of the examination separately. This has the advantage that the individual phases of the examination can be accessed quickly and selectively and changes to the protocol can be made easily in graphical mode via drag-and-drop using the mouse. With a so-called routine window, it is possible to adapt individual examination parameters, representing a submenu of the essential parameters and giving information at a glance about the parameterization of the examination.</p> <p>Viewing card: On the viewing card it is possible to move interactively with the mouse through the image volume of the ongoing examination. The images of different examinations can be displayed simultaneously for comparison. A large number of functions are available for evaluation, documentation and archiving.</p> <p>Filming card: A virtual film sheet shows a 1:1 display of the film sheets to be printed out, thus enabling an effective preview of filming jobs and rewinding of the images, as well as providing a large number of evaluation functions. Layout changes are possible interactively with up to 64 images. The printout parameters for the autofilming process running in parallel to acquisition or reconstruction are also defined with the filming card. Freely selectable positioning of images onto film sheet, configurable image text.</p> <p>3D card: Secondary reconstruction calculation: Real-time MPR for real-time reformatting of secondary reconstructions. Slice orientation: coronar, sagittal, oblique and double-oblique. Secondary reconstructions can be determined from the topogram, other MPR views or from a 3D surface reconstruction. Reconstruction with selectable slice thickness.</p> <p>CT Angio: Software for the reconstruction of angular projections from the images of a spiral data record for the display and diagnosis e.g. of aneurysms, plaques, stenoses, vascular anomalies or vascular origins. MIP: Maximum Intensity Projection, MinIP: Minimum Intensity Projection and Thin MIP available. Interfering or irrelevant parts of the image can be eliminated with the integrated volume editor. The angular projections are reconstructed around a definable axis, whereby the maximum CT values in this direction are selected for each angular projection. The resulting images can be viewed with the CINE function as a series of images with a 3D image effect.</p> <p>3D Display: Software for the three-dimensional display of surfaces of a body region from a series of continuous slices, for display and analysis of complex anatomies, e.g. the visceral cranium, pelvis, hips, for the purpose of planning surgical interventions. The 3D objects can be tilted and rotated interactively on the monitor and can also be displayed in relation to multiplanar reconstruction (MPR).</p> <p>Volume card: Volume scans of tissues and organs, based on a "region-growing" algorithm and interactive ROI definition.</p> <p>DynEva card: Software for dynamic evaluation of the contrast enhancement in organs and types of tissues, enabling the reconstruction of</p> <ul style="list-style-type: none"> - Time-density curves (up to 5 ROIs) - Peak-enhancement images - Time-to-peak images. <p>Video Capture and Editing Tool: Software contains integrated solution for imaging and visualization of 4D information, allowing the generation and editing of video files for improved diagnoses, recording and teaching. A</p>

/ Product	Description
<p>(Continued)</p> <p>SOMATOM Definition AS (20 Slice)</p>	<p>wide range of multimedia formats is supported, e.g. AVI, Flash (SWF), GIF, QuickTime (MOV), streaming video.</p> <p>Additional task cards available as an option.</p> <p>8. Examination and Evaluation Functions:</p> <p>Topogram: Scanning perspectives: a.p., p.a., lat.; length of scan field: 128 - 1574mm (optional up to 1974 mm), width of scan field: 512 mm, 1.5 - 16s (optional 20.22s). The topogram can be switched off manually when the desired examination length is reached.</p> <p>Tomogram: Scan field size: 50 cm. Scan times: 0.33 (optional), 0.5 and 1 seconds. Slice thickness in sequence: 0.6, 0.75, 1, 1.2, 1.5, 2.0, 2.4, 3, 4.0, 4.8, 5, 6, 7, 7.2, 8, 9, 10, 12, 14.4, 15, 20 mm</p> <p>Slice thickness in spiral: 0.6, 0.75, 1.0, 1.5, 2, 3, 4, 5, 6, 7, 8, 10 mm</p> <p>Real-time image display. Immediate image reconstruction and display without time delay simultaneously to data acquisition in 512 x 512 matrix size.</p> <p>Spiral: Scanning technique for continuous volume scans with continuous table feed in multirotation mode. Max. scan time 100 seconds with full low-contrast resolution. Volume length 1540 mm (optional 1940mm) with full low-contrast resolution (max. 200 cm scan range possible using multiple automatic ranges). Selection of the pitch factor between 0.3 and 1.5 depending on scan mode. Selection of up to 33 separately parameterizable examination ranges in a patient protocol. In addition individual anatomic sections can be successively combined and then scanned automatically. Storage of up to 10,000 examination protocols. Rotation times/cycle: (0.33 optional) sec, 0.5 sec and 1 sec.</p> <p>The intelligent algorithm Neuro BestContrast improves native head image quality especially grey/white matter differentiation. Images are decomposed into high and medium/low spatial frequencies. While relevant tissue information is contained in medium and low frequencies noise is dominated by high frequencies. Separate processing of medium and low frequency information improves the tissue contrast without amplifying image noise resulting in a better signal to noise ratio.</p> <p>Dynamic: Program for functional dynamic examinations. Serial scanning technique in one slice position with variable scans cycle times.</p> <p>Serio sequential examination without table feed: Up to 100 scans in uninterrupted, continuous sequence without table feed. Scan cycle time: 0.75 - 60 seconds.</p> <p>Multiscan spiral examination without table feed: Continuous multirotational data acquisition in one slice position. Quantitative evaluation and graphical display of time-density curves.</p> <p>WorkStream4D with Asynchronous Recon: 4D workflow with direct generation of axial, sagittal, coronal, or double-oblique images from standard scanning protocols. Elimination of manual reconstruction steps. Asynchronous Recon allows for multiple image reconstructions and reformats, parallel to scanning. With this feature, up to eight reconstructions job requests can be loaded into a scan protocol. Immediately upon completion of the scan acquisition, these reconstruction jobs are automatically executed in the background without delaying the start of next patient examination.</p> <p>Image reconstruction and storage: Image reconstruction in full resolution (512 x 512 matrix) takes place during the examination with up to 40 images per second, with full cone beam reconstruction and full image quality. Reconstruction fields of 5 cm to 50 cm through raw data zoom with the possibility of freely selecting the image center either prospectively before each scan or retrospectively. Reconstructions of different slice thicknesses from a single raw data record, e.g. lung soft tissue and lung high-contrast with CombiScan, with simultaneous suppression of partial volume artifacts. Up to 8 reconstructions per scan range can be predefined with the examination protocol. Patient-related storage of the image and raw data.</p> <p>Image display: 1024 x 1024 display matrix; screen splitting configurable up to 64 image segments; CT value scale from -1024 to +3071 HU. For very dense objects, the CT value scale can be extended from -10240 to +30710 HU (extended CT scale) e.g. for suppressing metal artifacts.</p> <p>Image evaluation: Complete software-controlled image evaluation program for all diagnostic requirements.</p> <p>CINE Display: Dynamic display technique for the visualization of time or volume series. A series of up to 1024 images can be displayed at a frame rate of at least 30 f/s. Automatic or interactive mouse-operated control.</p> <p>Multitasking functions: Simultaneous processing during operation of the scanner.</p> <p>Real-time Display: Image reconstruction in pace with the examination in full image quality (512 x 512 matrix)</p>

/ Product	Description
<p>(Continued)</p> <p>SOMATOM Definition AS (20 Slice)</p>	<p>with up to 20 images/second (with full cone beam reconstruction).</p> <p>Metro Display: Simultaneous display, processing and evaluation of images from other patients while the current patient is being scanned.</p> <p>Metro Documentation: Simultaneous documentation of images from any previously examined patient while the current patient is being scanned.</p> <p>Metro Copy: Automatic transfer of image data to the syngo CT Workplace (optional) or a DICOM network node.</p> <p>9. Network Module: For the connection to a local Ethernet (10, 100 Mbit or 1-Gigabit) in order to communicate with networked printers, diagnostic and therapy workstations, RIS or HIS systems and teleradiology routers.</p> <p>Scope of functions:</p> <ul style="list-style-type: none"> - Configurable network stations. - Unlimited selection of stations. - DICOM Standard (Digital Imaging and Communications in Medicine) for the transfer of information between DICOM-compatible units from different manufacturers. The scope of functions is described in detail in the DICOM Conformance Statement, and the standard version comprises the functions Send/Receive, Query/Retrieve and BasicPrint, Worklist, Storage Commitment, MPPS (Modality Performed Procedure Step). <p>10. Integrated CARE Solutions: UFC Detector: Up to 30% dose reduction compared to conventional CT detectors. High efficiency for low mAs requirements enable best possible image quality with low patient dose.</p> <p>Adaptive Dose Shield: world's first dynamic tube collimation that protects the patient from clinically irrelevant radiation in every spiral scan.</p> <p>CARE Filter: Specially designed X-ray exposure filter installed at the tube collimator. Up to 25% dose reduction with increased image quality.</p> <p>Pediatric Protocols: Special examination protocols with 80 kV and a large range of adjustable mAs values for optimum adaptation of the radiation exposure to the age and weight of the child to be examined.</p> <p>CARE Topo: Real-time topogram, Manual interruption possible once desired anatomy has been imaged.</p> <p>CARE Bolus: Operating mode for CM-enhancement triggered data acquisition. The objective is optimum utilization of the contrast medium bolus in its "plateau" phase in the target organ. This option has been especially adapted to the increased speed and timing requirements resulting from the multirow capability and faster rotation. The CM enhancement is observed via monitoring scans in a user-defined ROI with a trigger threshold. As soon as the enhancement reaches its predefined threshold, the spiral scan is triggered as quickly as possible. License for software use on one modality.</p> <p>11. Siemens Remote Service: Siemens Remote Service (SRS) offers a wide range of medical equipment-related remote services resulting in increased system availability and efficiency. SRS employs sophisticated authentication and authorization procedures, state-of-the-art encryption technologies and logging routines together with strictly enforced organizational measures that provide optimal patient data security and access protection. The following SRS services are included for all service agreement customers and during warranty period:</p> <p>Remote Diagnosis & Repair: In case of an unforeseen system malfunction, Siemens competent experts may directly connect with the CT system in order to identify the problem quickly. Moreover the remote repair function enables Siemens to often correct software errors immediately. Should an engineer on site be required, Remote Diagnosis & Repair allows Siemens to identify defective parts efficiently and accelerate their delivery, thereby keeping repair times to a minimum.</p> <p>Event Monitoring: Event Monitoring screens the performance of the system. If a parameter deviates from a predefined value, a status message is automatically sent to the Siemens UPTIME Service Center. Service Engineers may evaluate the status message at periodic intervals and may initiate appropriate action within the scope of the service agreement.</p>

/ Product	Description
<p>(Continued)</p> <p>SOMATOM Definition AS (20 Slice)</p>	<p>SOMATOM LifeNet: An information and service portal directly at the CT Scanner consoles, featuring up to date information on CT products, application guides, accessories and training schedules as well as download of the latest scan protocols and 90 day free trial licenses on available software applications.</p> <p>Notes on software use: Use of the entire integrated software, including optional software programs, is restricted exclusively to the application with this system.</p> <p>Note: This product is in compliance with IEC60601-1-2 and fulfills CISPR 11 Class A. Note: In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.</p>
<p>FAST CARE Platform</p>	<p>Siemens has always been at the forefront to deliver highest image quality and reduce radiation dose at the same time to the lowest possible level. But today, an additional barrier has to be mastered to maximize clinical outcome: overcome the growing restrictions and limitation of resources. With FAST CARE, Siemens opens a new chapter in CT, explicitly focusing on the optimization of patient-centric productivity in modern healthcare delivery. With FAST CARE, time-consuming and complex procedures such as scan or recon preparations are extremely simplified – ideally reduced to a single click. The scanning process gets more intuitive and the results become more reproducible.</p> <p>The FAST CARE platform consists the following features:</p> <p>FAST Scan Assistant: An intuitive user interface for solving conflicts by changing the scan time, resp. the pitch and/or the maximum tube current manually.</p> <p>CARE kV: First automated, organ-sensitive voltage setting to improve image quality and contrast-to-noise-ratio while optimizing dose and potentially reducing it by up to 60%.</p> <p>CARE Child: Dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols</p> <p>CARE Profile: Visualization of the dose distribution along the topogram prior to the scan</p> <p>CARE Dashboard: Visualization of activated dose reduction features and technologies for each scan range of an examination to analyze and manage the dose to be applied in the scan</p> <p>CARE Dose Configurator: Enhancement of Siemens' renowned real-time dose modulation CARE Dose4D, introducing new reference curves for each body region and for each body habitus allowing to adjust the configuration even more precisely to the patient's anatomy.</p> <p>Dose Notification: As requested by the new release of the standard IEC 60601 3rd edition, the SOMATOM Definition AS (AS+ Excel Edition, 128-slice configuration) provides the ability to set dose reference values (CTDIvol, DLP) for each scan range. If these reference values are exceeded the Dose Notification window informs the user.</p> <p>Dose Alert: As requested by the new release of the standard IEC 60601 3rd edition, the SOMATOM Definition AS (AS+ Excel Edition, 128-slice configuration) automatically adds up CTDIvol and DLP depending on z-position (scan axis). The Dose Alert window appears, if either of these cumulative values exceeds a user-defined threshold.</p>
<p>CARE Child</p>	<p>With Siemens' unique STRATON tubes, the tube voltage can now be reduced to 70kV which helps to reduce radiation exposure to patients. With prior tube technology, the minimum tube voltage setting was 80 kV. The new tube voltage setting of 70 kV helps to further reduce the radiation dose to small pediatric or neonate patients.</p> <p>CARE Child consists of:</p> <ul style="list-style-type: none"> - dedicated 70 kV scan modes - new CARE Dose4D curves for children - respective Children Protocol utilizing these features
<p>Extended Field of View #AWP</p>	<p>In today's clinical environment, there are cases for which it is important to visualize areas outside of the normal 50 cm CT scan field. For this reason, special reconstruction algorithms have been created to allow for visualization of objects using a FOV up to 78 cm. This extra versatility was primarily created to assist with radiation treatment planning applications. The image quality for the area outside the standard 50 cm scan field does not meet the</p>

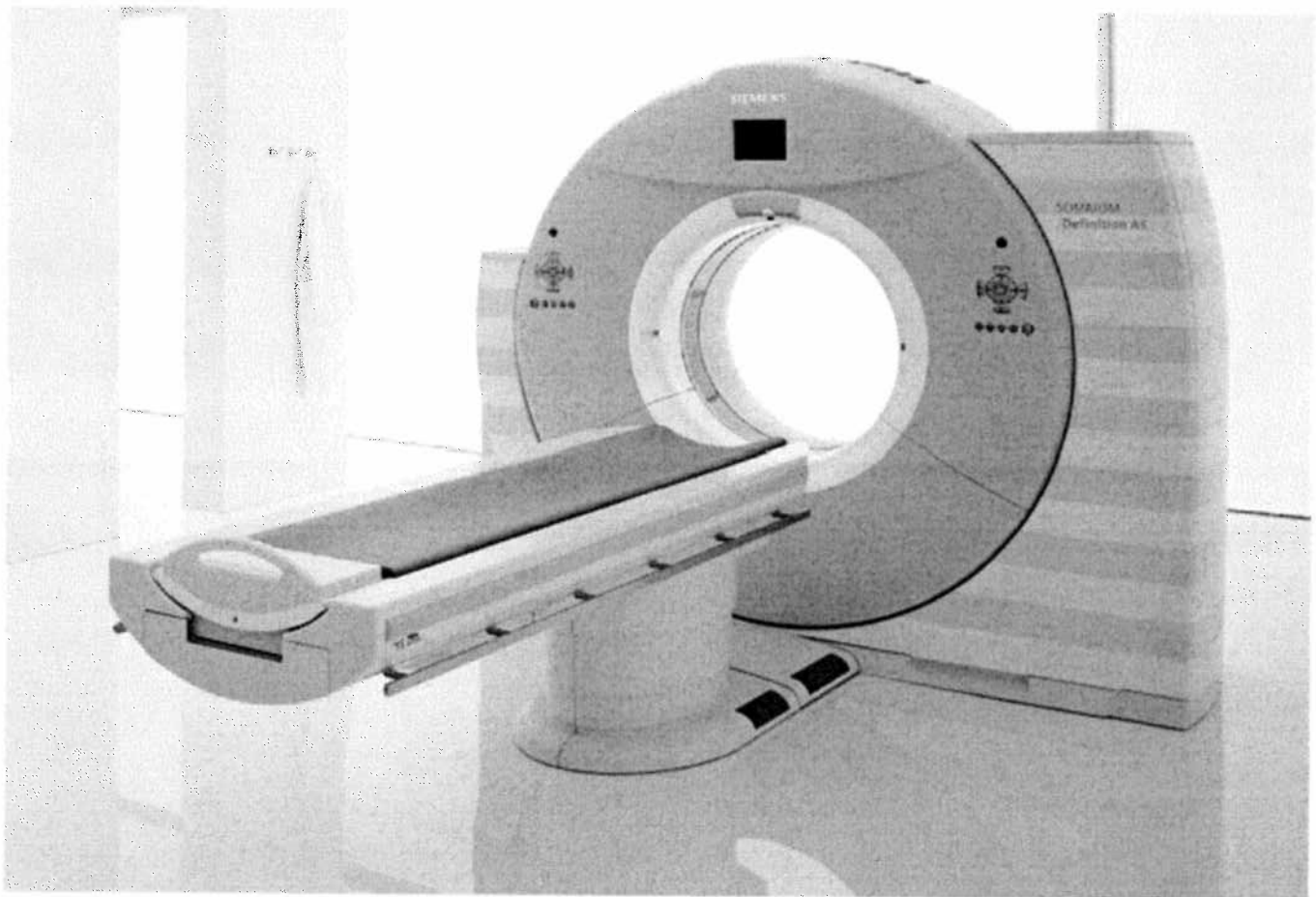
/ Product	Description
(Continued) Extended Field of View #AWP	image quality specifications shown in the technical data sheet (non-diagnostic image quality). Image artifacts may be common in the area outside the normal 50 cm scan field, depending on the anatomy scanned.
19" flat screen monitor	Scope of delivery and functions: - High-resolution, flicker-free monitor with 48 cm (19 in) flat screen, 1280 x 1024 resolution, 75 frames/s for parallel viewing and visual checking during the examination. The max. depth of the monitor is only 111 mm. In addition, a ceiling support or a monitor cart is required for installing the flat screen monitor (optional).
Ceiling Support Intervention	The space-saving ceiling installation along with the large movement range of the support allow maximum operating convenience when positioning the monitor. Consisting of: Ceiling support with installation kit, voltage supply.
CT Project Management	A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemens equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.
CT Standard Rigging and Installation	This quotation includes standard rigging and installation of your CT new system. Standard rigging into a room with reasonable access, as determined by Siemens Project Management, during standard working hours (Mon. – Fri./ 8 a.m. to 5 p.m.) It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents. Any special rigging requirements (Crane, stairs, etc.) and/or special site requirements (e.g. removal of existing systems, etc.) is an incremental cost and the responsibility of the Customer. All other "out of scope" charges (not covered by the standard rigging and installation) will be identified during the site assessment and remain the responsibility of the Customer.
Initial onsite training 32 hrs	Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
Additional onsite training 32 hours	Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.
Stellant Dual Flow CT Inj.(Ceiling-long)	Stellant D Dual Head / Dual Flow injector – ceiling/long mounted. The Stellant D CT injector is a dual syringe injection system that enables clinicians to perform the most critical CT contrast exams, including cardiac CT and coronary CTA. Medrad's DualFlow technology gives the user the ability to inject both contrast and saline at the same time. <ul style="list-style-type: none">- Real-time display of injection pressure in graph form.- Snap-on / twist-off syringe design.- Automatic plunger advance and retract when attaching and detaching syringes.- Automatic filling and priming with the touch of a button.- Stores and recalls up to 32 protocols.- Multi-phase programming (and patented Hold/Pause feature)- Programmable pressure limit- Ceiling Mount length (28'-46' / 75 cm-117cm)

/ Product	Description
<p><i>(Continued)</i></p> <p>Stellant Dual Flow CT Inj.(Ceiling-long)</p>	<p>Installation, applications and one year warranty provided by Medrad.</p> <p>This product has been tested and verified for compatibility with the following Siemens' products: SOMATOM Definition, Sensation, Emotion and Spirit. Compatibility with other products cannot be guaranteed and used w/any other products may void service contracts and/or system warranties.</p> <p>Additional Options Available: M2SCTXDS700C - MEDRAD XDS™ extravasation detector – Ceiling M2SCTUFP3TC - MEDRAD P3T Cardiac</p>
<p>HARDWIRED TYPE 2 Surge protective Device</p>	<p>APT Hardwired Type 2 surge protective device having the following features: Surge current rating: 240kA/ phase System Voltage: 277/480 wye (additional voltages are available) Individually replaceable Phase Modules UL 1449 3rd edition Listed Monitoring: LED's Dry contacts, and audible Alarm</p> <p>Installation note: TE/XGA is to be installed at distribution powering Siemens equipment. Panel shall include 30 - 60A breaker as a servicing disconnect means for service purposes.</p>
<p>Grey anti-fatigue floor mat for hospital</p>	<p>Industrial-grade anti-fatigue floor mat that provides comfort and durability. As a high-quality product designed to fight fatigue, it provides support for tired, aching feet, legs and back. Beveled edges for safety. Size 3'x5'.</p>

SOMATOM DEFINITION AS

TYPICAL ROOM PLAN

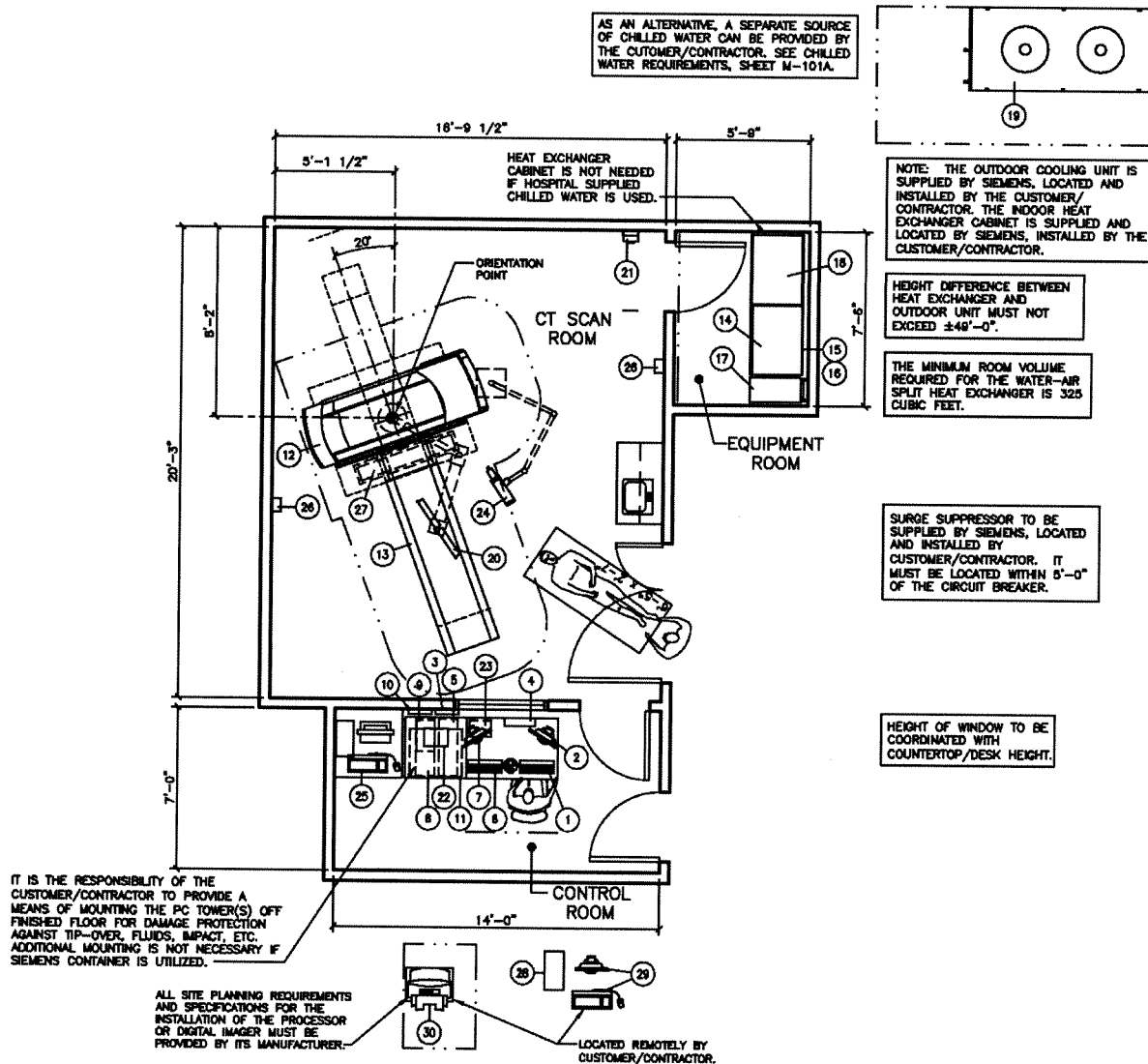
CT



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.

SOMATOM DEFINITION AS TYPICAL ROOM PLAN

CT



TYPICAL PLAN

SCALE: $1/8'' = 1'-0''$

SOMATOM DEFINITION AS SPECIFICATIONS

CT

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
①	CONTROL CONSOLE W/KEYBOARD AND CONTROL BOX	⓵	75	----	47 1/4	31 1/2	28 3/8	
②	19" FLAT SCREEN MONITOR ICS	⓶	20	256	16 9/16	8 1/4	16 1/16	ON CONSOLE/COUNTER
③	POWER CONNECTION TERMINAL - ICS	⓷	----	----	13 9/16	2 15/16	5 11/16	WALL MOUNTED
④	DVI SPLITTER - ICS	⓸	----	----	15 3/4	3 15/16	11 13/16	MOUNTED ON THE CONSOLE/CONTAINER
⑤	SYNGO ACQUISITION WORKPLACE	⓹	<66	1,706	9 13/16	29 1/2	18 1/2	OFF FLOOR/IN CONTAINER
⑥	IMAGE EVALUATION KEYBOARD (OPTION)	⓺	-	----	----	----	----	ON CUSTOMER'S COUNTER
⑦	19" FLAT SCREEN MONITOR FOR IES (OPTION)	⓻	20	256	16 9/16	8 1/4	16 1/16	ON CONSOLE/COUNTER
⑧	SYNGO CT WORKPLACE (OPTION)	⓼	<66	1,706	9 13/16	29 1/2	18 1/2	OFF FLOOR/IN CONTAINER
⑨	UPS FOR IES (OPTION)	⓽	36	171	9 3/16	16 7/16	5 13/16	
⑩	POWER CONNECTION TERMINAL - IES (OPTION)	⓾	----	----	----	----	----	WALL MOUNTED
⑪	CONTAINER & CONTAINER TABLE FOR ICS/IES (OPTION)	⓿	55	----	31 1/2	31 1/2	28 3/8	HOUSING FOR ICS/IES
⑫	SOMATOM DEFINITION AS GANTRY	Ⓚ	4,850	3,412*	93 11/16	36 5/8	78	*ADDITIONAL HEAT DISSIPATED TO WATER
⑫	SOMATOM DEFINITION AS GANTRY	Ⓚ	4,850	40,946*	93 11/16	36 5/8	78	* AIR COOLED GANTRY
⑬	PATIENT TABLE (OPTION)	Ⓛ	1,103	1,024	29 1/2	95 11/16	33 7/16	2000mm TABLE
⑭	POWER DISTRIBUTION CABINET & UPS	Ⓜ	1,373	6,824	35 7/16	27 1/4	76 3/4	UPS LOCATED INSIDE OF PDC
⑮	IMAGE RECONSTRUCTION SYSTEM	Ⓝ	106	5,122	12 1/4	30 3/4	19 5/8	
⑯	HEAT EXCHANGER CABINET - WATER/AIR SPLIT (OPTION)	Ⓞ	772	3,412	35 1/4	26 15/16	78 9/16	
⑰	OUTDOOR UNIT - WATER/AIR SPLIT (OPTION)	Ⓟ	397	129,662	95 1/2	43 1/4	40 3/16	
⑱	CARE VISION DUAL MONITOR (OPTION)	Ⓠ	157	512	----	----	----	CEILING MOUNTED
⑲	EATON SURGE PROTECTIVE DEVICE PANEL (OEM-OPTION)	Ⓡ	13.5	----	7 1/2	6 11/16	12	WALL MOUNTED
⑳	MEDRAD M2SCT222DF DISPLAY CONTROL UNIT (OEM-OPTION)	Ⓢ	8	----	12 1/2	9	13 1/2	HEIGHT WITH SCREEN UP
㉑	MEDRAD M2SCT222DF BASE UNIT (OEM-OPTION)	Ⓣ	14	----	11	8 3/4	11 1/2	UNDER COUNTER ON SHELF
㉒	CEILING MOUNTED MEDRAD INJECTOR (OEM-OPTION)	Ⓤ	106	----	----	----	----	SEE MFG SPECIFICATIONS
㉓	LAP LASER SYSTEM PC (OEM-OPTION)	Ⓥ			0	0	0	SEE MFG SPECIFICATIONS
㉔	LAP SIDE WALL LASER (2) (OEM-OPTION)	Ⓦ	58 EA.	----	7 1/4	7 1/4	55	SEE MFG SPECIFICATIONS
㉕	LAP CEILING LASER (OEM-OPTION)	Ⓧ	58	----	7 1/4	7 1/4	55	SEE MFG SPECIFICATIONS
㉖	MULTIMODALITY WORKPLACE COMPUTER (OPTION)	Ⓨ	55	----	19 3/4	10	23 5/8	ON CUSTOMER'S COUNTER
㉗	MULTIMODALITY WORKPLACE KEYBOARD AND MONITOR (OPTION)	Ⓩ	-	----	----	----	----	ON CUSTOMER'S COUNTER
㉘	LASER CAMERA (OEM-OPTION)	ⓐ	-	----	----	----	----	SEE MFG SPECIFICATIONS

FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 7'-8 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

FOR MORE INFORMATION

FOR MORE DETAILED PLANNING REQUIREMENTS FOR THIS SYSTEM, SEE
THE TYPICAL FINAL DRAWING SET NUMBER: 08006

SOMATOM DEFINITION AS SPECIFICATIONS

CT

POWER REQUIREMENTS

SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (KVA)	INCOMING LINE IMPEDANCE (mΩ)	AUTOMATIC CIRCUIT BREAKERS (AMPS)	MAIN CIRCUIT BREAKER (AMPS)
SOMATOM DEFINITION AS 80KW	3Ø 480±10%	SEE BELOW	≤ 140	125	150

POWER FACTOR 0.85 OR HIGHER REQUIRED.

POWER CONSUMPTION (WITH STANDARD WATER/WATER HEAT EXCHANGER OR AIR COOLED SYSTEM)

OPERATING FOR 6 SEC - 125 KVA

OPERATING FOR 100 SEC - 43 KVA

SYSTEM ON (STAND-BY) - 4 KVA

SYSTEM ON (COMP ON) - 2.5 KVA

GANTRY OFF (EVA ON) - 1.7 KVA

POWER CONSUMPTION (WITH OPTIONAL WATER/AIR SPLIT COOLING SYSTEM)

OPERATING FOR 6 SEC - 135 KVA

OPERATING FOR 100 SEC - 53 KVA

SYSTEM ON (STAND-BY) - 14 KVA

SYSTEM ON (COMP ON) - 2.5 KVA

GANTRY OFF (EVA ON) - 1.7 KVA

IF AN ON-SITE PRE-TRANSFORMER IS REQUIRED, IT MUST BE A MIN. OF 160 KVA.

ALL STANDARD COMPONENTS AND ADD-ONS ARE SUPPLIED VIA THE POWER DISTRIBUTION SYSTEM.

DO NOT CONNECT NON-SIEMENS COMPONENTS SUCH AS LASER CAMERAS OR FILM PROCESSORS TO THE SIEMENS POWER DISTRIBUTION SYSTEM (PDS).

THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.

TO ENSURE SATISFACTORY SYSTEM OPERATION THE PDS MUST HAVE A DEDICATED PROTECTIVE GROUND CONDUCTOR.

POWER REQUIREMENTS

SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (KVA)	INCOMING LINE IMPEDANCE (mΩ)	AUTOMATIC CIRCUIT BREAKERS (AMPS)	MAIN CIRCUIT BREAKER (AMPS)
SOMATOM DEFINITION AS 100KW	3Ø 480±10%	SEE BELOW	≤ 125	125	150

POWER FACTOR 0.85 OR HIGHER REQUIRED.

POWER CONSUMPTION (WITH STANDARD WATER/WATER HEAT EXCHANGER OR AIR COOLED SYSTEM)

OPERATING FOR 3 SEC - 140 KVA

OPERATING FOR 100 SEC - 43 KVA

SYSTEM ON (STAND-BY) - 4 KVA

SYSTEM ON (COMP ON) - 2.5 KVA

GANTRY OFF (EVA ON) - 1.7 KVA

POWER CONSUMPTION (WITH OPTIONAL WATER/AIR SPLIT COOLING SYSTEM)

OPERATING FOR 3 SEC - 150 KVA

OPERATING FOR 100 SEC - 53 KVA

SYSTEM ON (STAND-BY) - 14 KVA

SYSTEM ON (COMP ON) - 2.5 KVA

GANTRY OFF (EVA ON) - 1.7 KVA

IF AN ON-SITE PRE-TRANSFORMER IS REQUIRED, IT MUST BE A MIN. OF 160 KVA.

ALL STANDARD COMPONENTS AND ADD-ONS ARE SUPPLIED VIA THE POWER DISTRIBUTION SYSTEM.

DO NOT CONNECT NON-SIEMENS COMPONENTS SUCH AS LASER CAMERAS OR FILM PROCESSORS TO THE SIEMENS POWER DISTRIBUTION SYSTEM (PDS).

THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.

TO ENSURE SATISFACTORY SYSTEM OPERATION THE PDS MUST HAVE A DEDICATED PROTECTIVE GROUND CONDUCTOR.

HOSPITAL WATER

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 HEAT EXCHANGER LOCATED INSIDE THE GANTRY. THE REQUIRED WATER TEMPERATURE IS 39.2 TO 53.6°F. THE NOMINAL OPERATING PRESSURE IS 29 TO 87 PSI, (MAX. 145 PSI). THE MINIMUM FLOW RATE DEPENDS ON THE WATER TEMPERATURE. DIFFERENTIAL PRESSURE AS RELATES TO WATER CIRCULATION. HEAT DISSIPATION INTO THE WATER IS 40,946 BTU/HR.

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.

WATER/AIR SPLIT

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 -13° TO 122° (-40° TO 122° WITH FLOW HEATER OPTION). BTU/HR TO AIR (EXHAUST) IS 129,661.

AIR COOLED

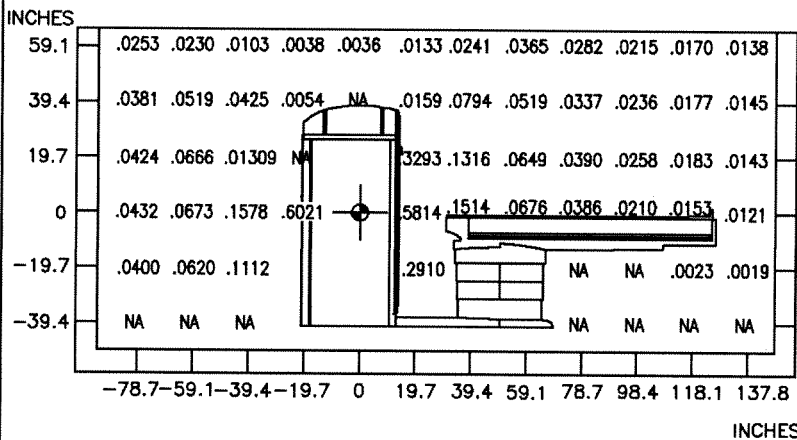
AIR-COOLED GANTRY

THE AIR-COOLED GANTRY HAS INTEGRATED COOLING FANS FOR AIR INTAKE AND AIR EXHAUST. ROOM AIR IS USED AS COOLING AIR. THE REQUIRED AIR INTAKE TEMPERATURE IS 64.4 TO 82.4°F. THE REQUIRED AIR FLOW RATE THROUGH THE GANTRY IS 81,224 CUBIC FEET/HOUR. HEAT DISSIPATION INTO THE AIR IS 40,946 BTU/HR. THE RATING CAPACITY OF THE ROOM AIR CONDITIONER HAS TO TAKE INTO ACCOUNT THE STRUCTURAL CONDITIONS (EX. WINDOWS, BUILDING & ROOM THERMAL INSULATION, ROOM SIZE, ROOM VOLUME, ETC.) OF THE SCAN ROOM TO ENSURE THAT THE TEMPERATURE RANGE OF AIR NEEDED FOR THE SYSTEM IS MAINTAINED.

SOMATOM DEFINITION AS SPECIFICATIONS

CT

RADIATION SCATTER



SOMATOM DEFINITION AS

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.

DELIVERY

TRANSPORTING INFORMATION:

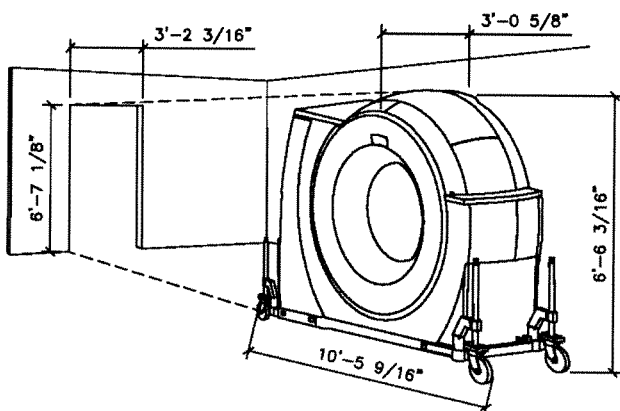
TOTAL GANTRY TRANSPORT WEIGHT: 5,267 LBS.
GANTRY WITHOUT TRANSPORT DEVICE: 4,850 LBS.
TRANSPORT DEVICE: 417 LBS.
GANTRY TRANSPORTING WIDTH: 4'-8 5/8" MAXIMUM.
3'-0 5/8" MINIMUM.
GANTRY TRANSPORTING LENGTH: 10'-5 9/16" MAXIMUM.
8'-5 9/16" MINIMUM.

NORMAL TRANSPORT REQUIREMENTS:

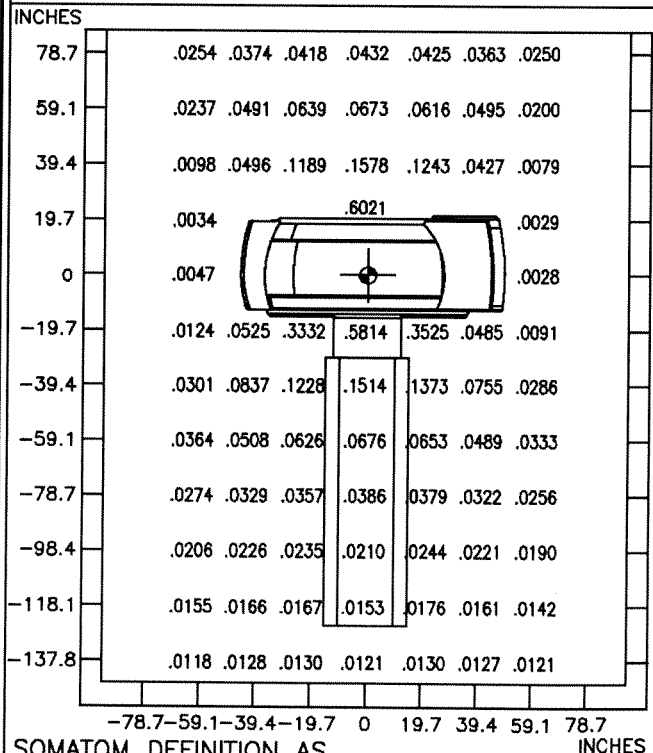
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY. SEE MAXIMUM WIDTH AND MINIMUM LENGTH ABOVE FOR TRANSPORT CASTERS SWIVELED OUT.

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.



RADIATION SCATTER



SOMATOM DEFINITION AS

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

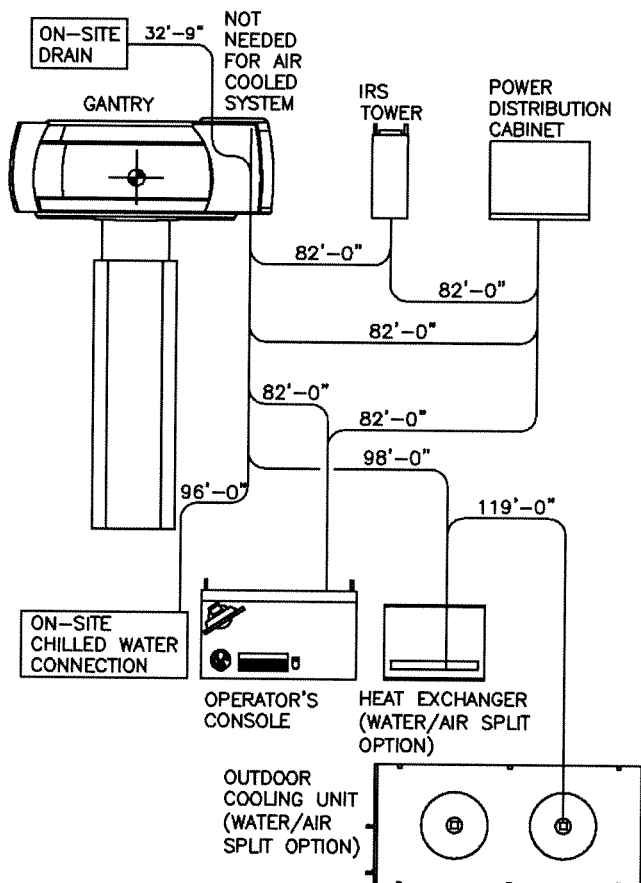
SCANNING WAS PERFORMED USING A MAXIMUM SLICE THICKNESS OF 64 x 0.6 mm (38.4 mm) AT 140 kV THROUGH THE SYSTEM AXIS IN THE HORIZONTAL PLANE. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32 cm IN DIAMETER, 16 cm LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

SOMATOM DEFINITION AS SPECIFICATIONS

CT

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:

- PDC <--> CRT MONITOR: MINIMUM 3'-3"
- GANTRY <--> ECG-WORKSTATION: MINIMUM 16'-5" (1)
- GANTRY <--> EEG-WORKSTATION: MINIMUM 19'-8" (1)

1) MINIMUM DISTANCE BETWEEN THE LINE VOLTAGE CABLES = 19'-8"

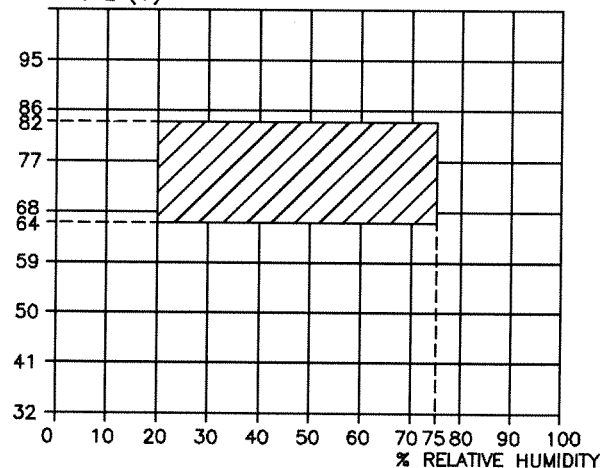
NOISE LEVEL

SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)
GANTRY	<68
PATIENT TABLE	<60
PDC CABINET	≤55
IRSmx2C TOWER (40/64 SLICE CONFIG.)	50 TO 55 (1)
IRSmx2b TOWER (128 SLICE CONFIG.)	<55
HEAT EXCHANGER - WATER/AIR SPLIT	<65

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

ENVIRONMENTAL REQUIREMENTS

TEMPERATURE (°F)



TEMPERATURE, HUMIDITY, DUST, AIR

CONTAMINATION:

REFER TO THE CLIMATOGRAM ABOVE FOR THE PERMITTED CLIMATE RANGE.

THE MAXIMUM TEMPERATURE GRADIENT IS 6 K/HR.

THE ENVIRONMENTAL REQUIREMENTS FOR THE OPERATOR AND THE SYSTEM IS 64 TO 82 °F WITH A RELATIVE HUMIDITY OF 20-75% AND A BAROMETRIC PRESSURE OF 10.2 TO 15.4 PSI.

EXTERIOR AIR VENTS SHOULD BE EQUIPPED WITH A FILTRATION SYSTEM OF THE FILTER CLASS MERV 8 TO FILTER DUST PARTICLES >10 µm.

THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULPHIDE, EVEN IN SMALL AMOUNTS. IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS HAVE TO BE TAKEN. E.G., EXTRACTOR FANS, SIPHON, MODIFICATION OF VENTILATION INTAKE, ETC..

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.

THIS SERVICE REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

1. (PREFERRED) VPN - WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE.
2. (OPTIONAL) *SRS ROUTER* - CONNECTED TO ANALOG PHONE LINE VIA *ANALOG MODEM*, ETHERNET CONNECTION TO CUSTOMER'S LAN, AND A POWER OUTLET.

NOTE: = *SUPPLIED BY SIEMENS*