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Respuesta Observaciones

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Buenos días Comité evaluador,

De acuerdo al informe de evaluación de las propuestas de la CONVOCATORIA PÚBLICA 002-2022 cuyo objeto es ADQUIRIR UN TOMOGRAFO PARA LA ESE HOSPITAL SAN RAFAEL YOLOMBÓ, SEGÚN ESPECIFICACIONES MINIMAS CONTENIDAS EN LA FICHA TECNICA QUE HACE PARTE INTEGRAL DEL PROCESO, presentamos o subsanamos los tres puntos mencionados en el documento sobre nuestra propuesta con los documentos que adjuntamos.

Cualquier inquietud con gusto la resolveré.

Best Regards/Cordialmente,

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2 archivos adjuntos



AccessCT_1632_Specs_V3.pdf
526K



Respuesta Observaciones Tomografo Yolombo - Philips.pdf
31K

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REF: Respuesta Observaciones 07/03/2022 .

Date: 07/03/2022

Apreciados:

De acuerdo a las observaciones presentadas damos respuesta a cada uno de los puntos:

Entrenamiento Presencial: La oferta presentada incluye 32 horas de capacitación presencial distribuidas en 4 días consecutivos.

5.3 Capacidad de carga de al menos 180Kg: El equipo presentado cuenta en su configuración con una mesa de altura variable (movimiento Vertical) que permite hasta 200kg. Ver Folio 122.

6.7 Memoria RAM de procesamiento (adquisición y reconstrucción) de al menos 16 GB. Hubo un error en el envío del documento, enviamos un documento desactualizado, por lo cual se anexa el documento de especificaciones técnicas actualizado en su última versión donde se evidencia cumplir con el requerimiento de 16GB de RAM.

Cualquier inquietud con gusto la atenderé.

Cordial saludo,



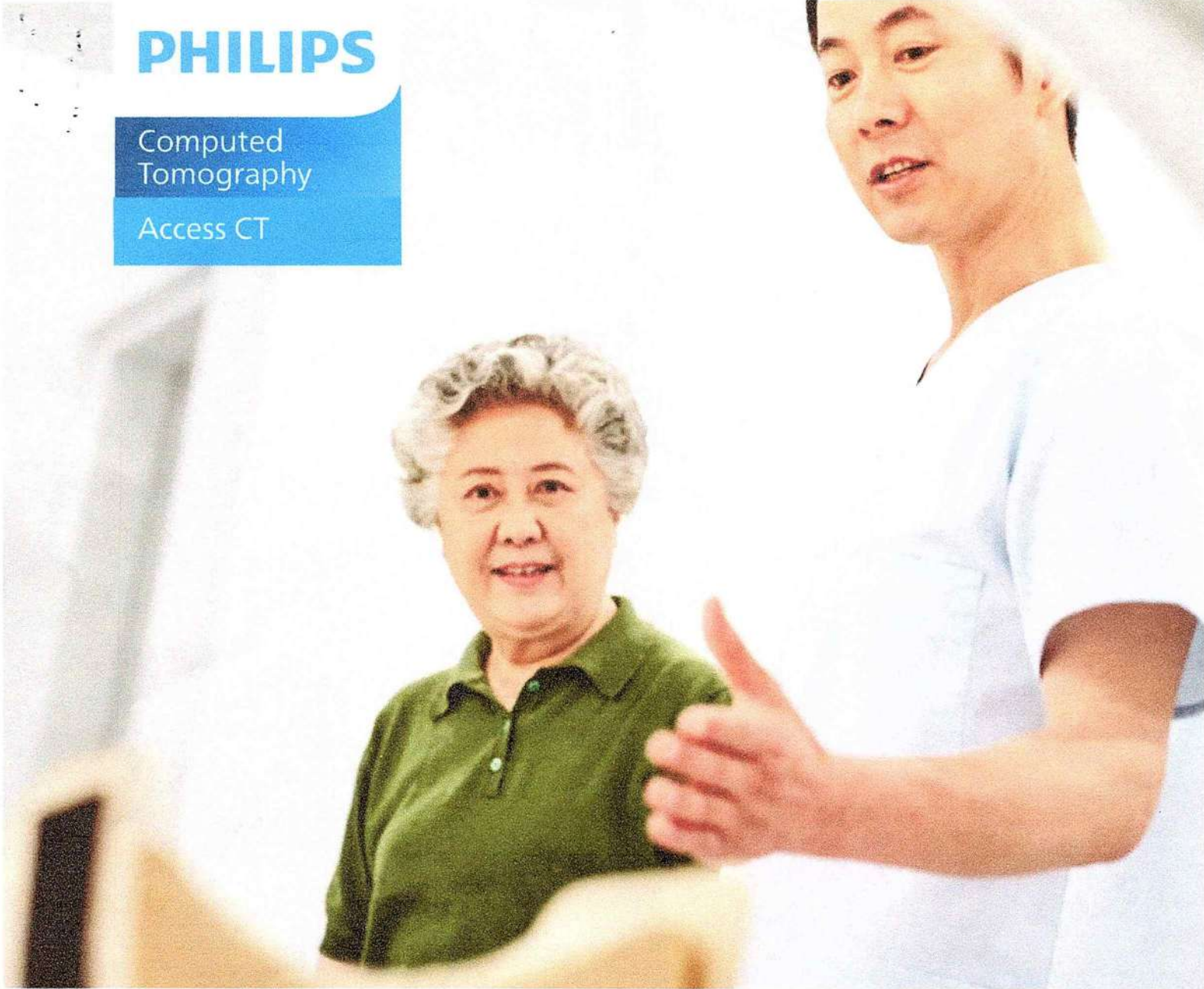
NICOLAS MONROY BEDOYA
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PHILIPS

Computed
Tomography

Access CT



Access more

Access CT 16/32-slice specifications

Not available in the USA.

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1. Introduction

Whether you're investing in your first CT scanner or expanding your ability to meet the health care needs of your community, Philips Access CT delivers what you need in a CT solution. From clinical breadth to economic value to reliable support and service, Access CT allows you to access **more**.



2. Gantry

2.1 Gantry

Feature	Specification
Rotation times	0.75, 1, 1.5, 2 seconds for 360° rotation
Aperture	65 cm
Focus-isocenter distance	511 mm
Focus-detector distance	900 mm
Scan FOV	450 mm
Tilt	Digital tilt
Slip ring	Low voltage slip ring
Scan localizer	Sagittal and transverse localizer, can perform PA and lateral scan (laser positioning lamp)
Collimation	2 x 0.8 mm, 12 x 0.8 mm, 16 x 0.8 mm

2.2 Gantry control panels

- Couch movement in/out control
- Couch movement in/out fast
- Couch movement up/down*
- Emergency stop
- Laser on/off
- Numeric/letter display
- Patient release/unload*
- X-ray on indicator
- Zero reference

*Not available with fixed couch

2.3 Operator's console control panel

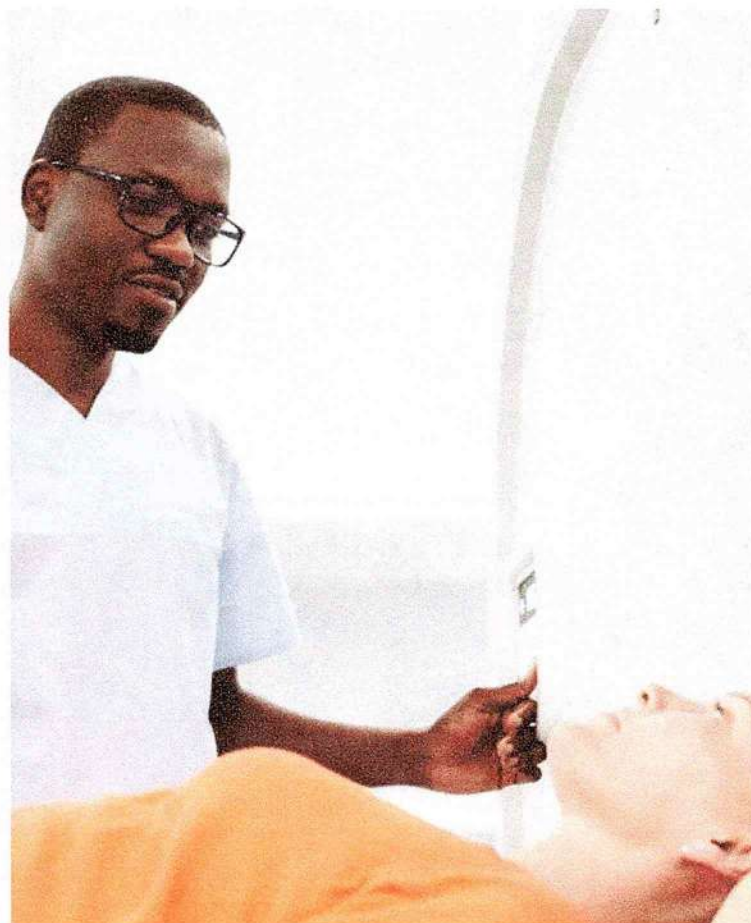
- Couch movement in/out
- Couch movement in/out fast
- Couch movement up/down*
- Couch position display
- Emergency stop
- Enable
- Scan start
- X-ray on indicator

*Not available with fixed couch

2.4 AutoVoice

Standard set of commands for patient communication before, during and after scanning in these languages:

- Arabic
- Chinese
- Danish
- Dutch
- English
- French
- Georgian
- German
- Hebrew
- Italian
- Japanese
- Norwegian
- Portuguese
- Russian
- Spanish
- Swedish
- Turkish



3. Couch

Feature	Specification
Maximum scannable range	Fixed-height couch: ≥ 1200 mm Vertical moveable couch*: ≥ 1380 mm
Horizontal speed	1–100 mm/s
Horizontal repeatability	± 0.25 mm
Vertical motion for vertical moveable couch*	Vertical movement range with clinical mode: no less than 480 mm; Vertical movement range with service mode: no less than 530 mm
Couch height for fixed-height couch	135 mm (below isocenter)
Maximum load capacity	Fixed-height couch: 150 kg Vertical moveable couch*: 200 kg
Table floating buttons	Couch has two floating buttons on each side that can float horizontal motion in an emergency

4. Accessories

For vertical moveable* and fixed-height couches

Standard	Optional
Table pad	Table extension and pad
Knee rest pad	Coronal head holder pad
General head holder and pad	Coronal head holder
Neck pad	Flat head holder
Straps	Flat head holder pads
7" water phantom with pin	CCT package
Step phantom	Barcode reader
System phantom	Arm support
Adjustable bracket of phantoms	

* Vertical moveable couch is an option

5. Imaging chain

5.1 Tube

Feature	Specification
Anode heat storage	3.5 MHU
Focal spots	0.4 mm x 0.7 mm/0.6 mm x 1.3 mm
Anode rotation speed	3000 rpm (50 Hz) or 3600 rpm (60 Hz)
Nominal continuous input power	5 kW
Maximum focal spot power kW	28 kW
Cooling mode	Oil-cooled

5.2 Generator

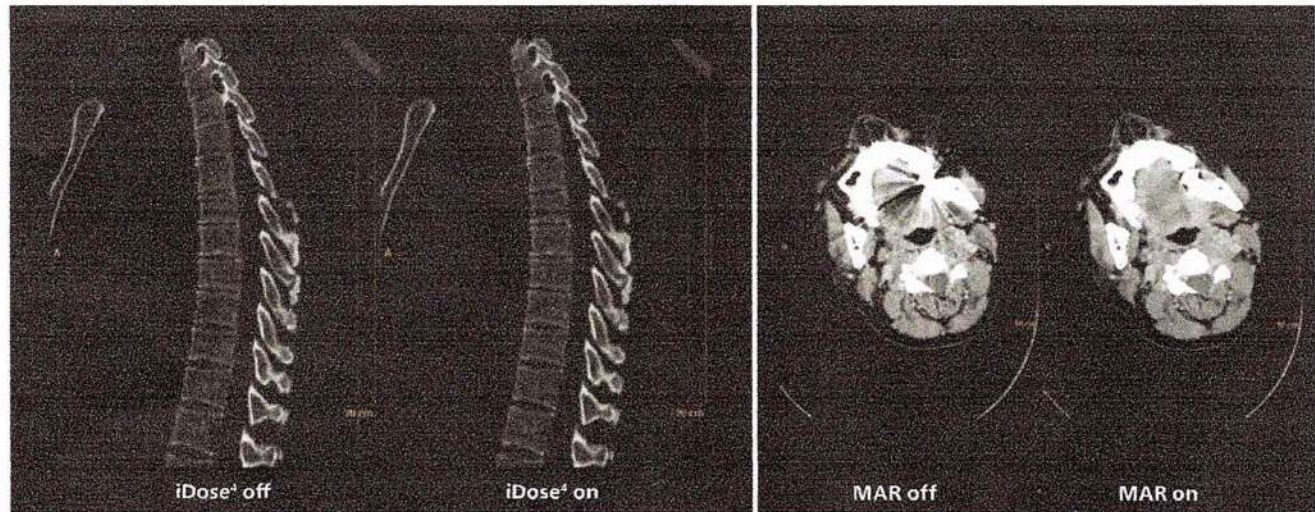
Feature	Specification
Generator power	28 kW (56 kW equivalent with iDose ⁴)
Range of mA	10 mA ~ 233 mA, increasing by 1 mA
Range of kV	70 kV, 80 kV, 100 kV, 120 kV, 140 kV
Maximum exposure time	No less than 100 s

5.3 Data acquisition system

Feature	Specification
Maximum number of slices per rotation	16 (acquired slices); 32 (helical reconstructed slices, optional)
Detector width	12.8 mm
Detector numbers per row	720
Total detector elements	11,520
Data acquisition rate, maximum	1320 view/rotation

6. Image quality

Feature	Specification
Spatial resolution	Up to $15 \pm 10\%$ lp/cm @ 0% MTF
Low contrast resolution	3.0 mm @ 0.3% (CTDI _{center} no more than 40 mGy, 20 cm Catphan)
Image noise	$\leq 0.35\%$
Absorption range	-1,024 to +3,071 Hounsfield units



40 mAs spine imaging Preserves natural appearance at low noise and dose.

Images courtesy of Nantong Oncology Hospital, Hospital of Nantong University, Jiangsu, China.

7. Console

Feature	Specification
Computer	Memory: ≥ 16 GB Hard disk capacity: ≥ 500 GB Ethernet connection rate: 100 Mbps
Reconstruction FOV	50 – 450 mm
Scan pitch	0.5 – 1.5
Image matrix	512 x 512, 768 x 768, 1024 x 1024
Display matrix	1024 x 1024
Image reconstruction speed	Up to 10 IPS
Image displays	1, 2 x 2, 3 x 3, 4 x 4
Image enlargement mode	Interpolation
Range of gray level	256
Monitor	19" LCD
Monitor resolution	1280 x 1024

8. Application configuration

8.1 Standard applications on console

CT Viewer

2D viewer	After loading images to 2D viewer, user can process routine image operations such as windowing, zoom, pan, roll, and enhance.
3D viewer	Provides interactive visualization of CT volumetric data sets.
MPR viewer	Used to reformat the tomographic data in view planes orthogonal or inclined to the original slices, or in curved planes for better visualization of organs and tissues and the relation between them.
Endo viewer	Review function that allows user to perform a general fly-through of any suitable anatomical structure that is filled with air or with contrast material, including general vessels, the bronchus, and the colon.
Filmer	Provide filming function to print images to DICOM 3.0 printer.

Console software

CD/DVD writer	The system supports a recordable CD/DVD disk drive.
Dual surview	Surview scans are radiographic-like scans upon which the study is planned. Dual surview also supported.
Automatic Current Selection (ACS)	Prospective current modulation based on the patient anatomy to obtain a constant noise level throughout the examination.
Dose Modulation (DOM)	Dynamic tube current modulation technique that provides constant image quality for all scanned regions, regardless of attenuation. Modulation of the tube current according to the anatomic cross-section of the patient reduces dose in low attenuation views and maintains image quality in high attenuation views.
Test Injection Bolus Timing (TIBT)	System provides TIBT function for analyzing the absorption and diffusion process of contrast material. The results of analysis can be used to help determine the scan delay time and clinical needs of injected dose of contrast.
Pediatric protocol	Developed in collaboration with top children's hospitals, age and weight-based infant and pediatric protocols enhance image quality at low dose.
MIP/MinIP	The maximum (minimum) intensity projection (MIP or MinIP) function generates interactive display of ray-traced MIP images from sets of CT slices. The user can define VOI (volume of interest), tissues, and choose it to be projected or removed. Bone removal techniques are incorporated.
Metal Artifact Reduction (MAR)	Exclusive MAR enhances visualization of critical structures by reducing metal artifacts.
Raw data split	Retrieve the corresponding raw data of bad images for finding the root cause.
iDose ⁴	Allows user to implement levels to determine the amount of noise that is removed from the images. Level 1 is the least aggressive noise reduction. <ul style="list-style-type: none">- Improved image quality up to 57%.- Supports axial, helical, and perfusion.- Supports standard and high resolution.- Supports 512, 768, and 1024 image matrix sizes.- Supports 7 distinct, user-selectable levels that support image quality personalization based on your clinical needs.- Reconstruction is achieved in seconds rather than minutes.- Image reconstruction speed up to 10 images per second when using iDose⁴ in routine scan.
Insert MPR	Allows the user to insert automatic multi-planar reformations in a series within a protocol. After finishing the helical or axial scan, coronal plane or sagittal plane images can be automatically generated.
iPlanning	When surview scan is finished, plan box of the scan series before surview scan is matched to the position of the target organ based on the protocol selected. Supports Smart Planning of spine disc, head and chest.
DICOM 3.0	The full implementation of DICOM 3.0 communications protocol in the Access CT allows connectivity to DICOM 3.0-compliant scanners, workstations and printers, and supports IHE requirements for DICOM connectivity.

8.2 Optional applications on console

DICOM 3.0

Modality Performed Procedure Step (MPPS)	Provides performed exam information (start/end/info) to HIS/RIS using DICOM MPPS service.
Modality workload	Provides HIS/RIS interface through DICOM modality workload service class; enhances clinical workflow by importing patient demographics and study information from an information management system.

Console software

Bolus tracking	Triggers the start of spiral acquisition at a pre-set CT number threshold following bolus injection of contrast material. The minimum of Inter-scan delay (from the end of current slice acquisition to start of next slice acquisition, and the start of next acquisition must be after the current slice image reconstruction) should be ≤ 1 second.
Injector triggering	Triggers the start of spiral acquisition at a pre-set delay relative to the bolus injection of contrast material. Includes algorithms for handling interruptions in scan.
CT report	The report system provides report edit function and user can print report in windows printer. The doctor can save the unfinished report temporarily, close it, and process it later after completing the other report.
Virtual colonoscopy (CTC)	CTC provides a fast and easy way for clinical diagnosis to understand the character of suspected polyps. Many viewing modes are available for visualization of colon: MPR, transparent view, dissection view, cross-sectional view, endo view, cubic view, Fly-through along centerline.
Brain perfusion	Brain perfusion is used to enable the measurement of physiological processes in the brain from the continuous or sequential scanning data set at one position in order to monitor the penetration of contrast material to the organ. Support to select the reference vessel as artery or vein, and generate the vessel and tissue time density curves. Generate functional images include Time Maximum Intensity Project (tMIP), Blood Flow (BF), Blood Volume (BV), Rise Time (RT), Time To Peak (TTP). These functional maps are colored, where the color refers to the intensity values respectively.
Dental	Generates axial image and 3D image, and image operation tools. To define panoramic curves and sectional lines, curves and lines can be changed to generate panoramic images and sectional images.
Vessel Analysis (VA)	VA package offers a set of tools for measurement and general vascular analysis. The centerline of vessel can be automatically tracked or manually edited. Shows vessel contour on cross-sectional viewport, and the contour can be manually edited. Measurements function: cross-sectional area and diameter, vessel length, stenosis estimation.
Lung Nodule Assessment (LNA)	LNA provides a fast and easy way for clinical diagnosis to understand the character of suspected nodules. LNA support auto segments the lung. Various viewing modes are available for visualization of nodule: MPR, transparent view, cross-sectional view, cubic view. LNA support semi-auto segments the nodules.

9. Peripheral options

- Power conditioner
- Isolation transformer
- UPS

10. Remote Services

Philips Remote Services help keep your system running smoothly from the start so you maximize your uptime and keep your focus on patient care while enjoying low maintenance costs. We connect expert remote support specialist with your local service engineer for the strength and experience of Philips to support you at all times. Predictive and proactive actions, fast response, and the ability to collaborate on big data with smart analysis are designed to keep your system and your business running smoothly.

- 24x7 system health monitoring and remote diagnosis designed for rapid and accurate service
- Minimized service costs
- Maximum uptime
- Enhanced clinical support



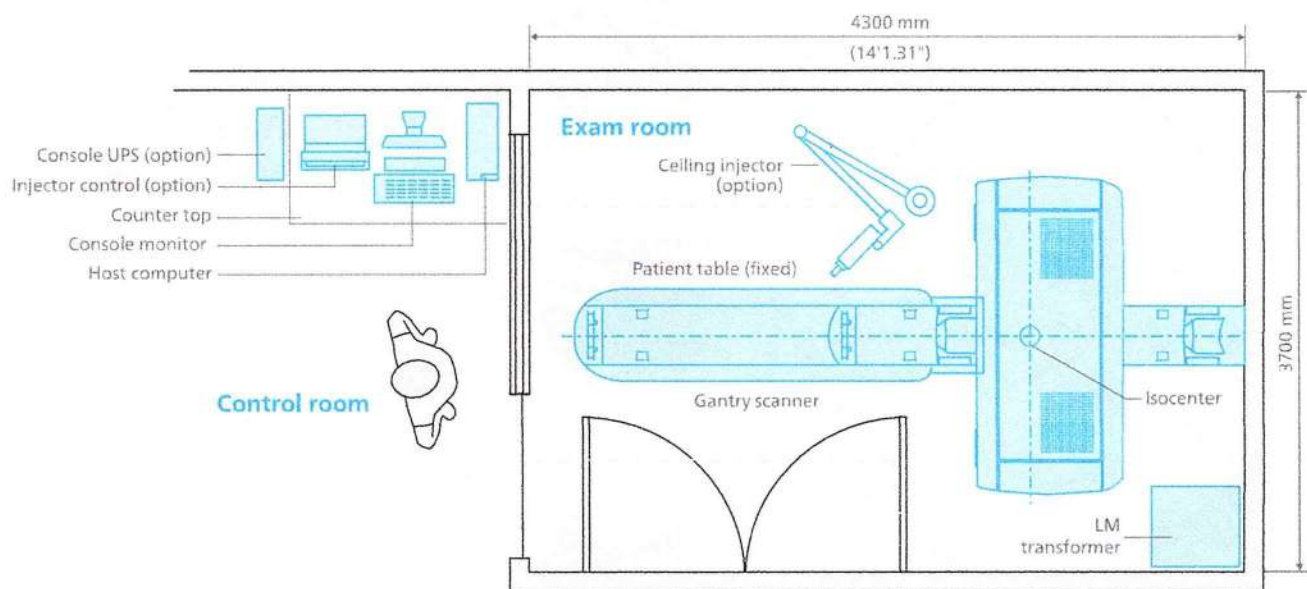
11. Site planning

Compact design fits easily just about anywhere and supports powerful performance in a small space.

Feature	Specification
Power supply	Main power: 3 phase, 380 – 400 VAC \pm 10%, 50/60 Hz, 46 kVA maximum neutral, protective earth
Scan room size	\geq 12 m ²
Operating temperature	<ul style="list-style-type: none"> • Gantry room: 18 – 24°C (62 – 75°F) • Console room: 15 – 30°C (59 – 86°F) • Maximum gradient: 10°C/hour • Operating humidity (gantry room): 15% – 75%, non-condensing

Dimensions and weights	Specification			
With package	L (mm)	W (mm)	H (mm)	Gross weight (kg)
Gantry package box	2122	1052	2166	1380
Couch (vertical) package box	2724	974	1234	520
Couch (fixed) package box	2428	878	1259	338
Accessories package box	1530	1210	1030	290
Without package				
Gantry	1904	875	1832	1200
Couch (vertical)*	2479	640	866	360
Couch (fixed)	2512	550	860	175

* Vertical moveable couch is an option



The Access CT scanner system can be used as a whole body (except cardiac) computed tomography X-ray system featuring a continuously rotating X-ray tube and detector array with multislice capability up to 6/16 slices simultaneously. The acquired X-ray transmission data is reconstructed by computer into cross-sectional images of the body from the same axial plane taken at different angles. The system is suitable for all patients.

Not available in the USA.

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