MAGNETOM C! Specifications

MODEL MAGNETOM C! **CONFIGURATION OPTIONS** Range of magnetic field strength < 0.59 Tesla (CONFIGURATION OPTIONS) Magnet Configuration (CONFIGURATION Open bore - vertical/upright OPTIONS) Coil options (CONFIGURATION OPTIONS) Body, Head, Knee, Neck, Pelvic, Shoulder, Spine, Wrist, Flex Array, Phased Array Gating Options (CONFIGURATION OPTIONS) Cardiac/ECG, Peripheral, Prospective with PACE, Respiratory Are hardware/software modules available Yes, modules can be purchased separately individually or are features available only as a system purchase (CONFIGURATION OPTIONS) TECHNICAL SPECIFICATIONS Current release version (TECHNICAL 2004 software SPECIFICATIONS) Gantry Styles (TECHNICAL SPECIFICATIONS) Open C Shaped Magnet field strength (TECHNICAL 0.35 Tesla SPECIFICATIONS) Gradient Strength (millitesla per meter) 24 (effective 39) m T/M (TECHNICAL SPECIFICATIONS) FOV (Min, Max) (TECHNICAL SPECIFICATIONS) 0.5 - 40 cm Reconstruction time - Single Slice (@ 256x256) 355 recons per second (256square FFT, full FOV) (TECHNICAL SPECIFICATIONS) 3226 recons per sec (256 square FFT, 25% recFOV) seconds Reconstruction time - Multislice (40 slices @ 355 recons per second (256square FFT, full FOV) 256x256) (TECHNICAL SPECIFICATIONS) 3226 recons per sec (256 square FFT, 25% recFOV) seconds 355 recons per second (256square FFT, full FOV) Reconstruction time - Volume (@ 256x256) (TECHNICAL SPECIFICATIONS) 3226 recons per sec (256 square FFT, 25% recFOV) seconds Spin echo time (Specify matrix size) (TECHNICAL min TE with SE 7.6ms (128 matrix) 7.8ms (256 SPECIFICATIONS) matrix) msec Repetition time in msec (Specify matrix size) 2.81 ms (128 matrix) 3.27 ms (256 matrix) msec (TECHNICAL SPECIFICATIONS) Inversion time in msec (Specify matrix size) N/A msec (TECHNICAL SPECIFICATIONS) On-line image storage capacity (TECHNICAL 110,000 (256 matrix) Images SPECIFICATIONS) Cryogen use (TECHNICAL SPECIFICATIONS) N/A with permanent magnet L/hour Table weight limit [lbs] (TECHNICAL 440 lbs. SPECIFICATIONS) Unit dimensions with service space (TECHNICAL 137cm (W) + 209cm (D) + 189 (H) SPECIFICATIONS) Minimum room size requirements (Length x 325 sq feet total install. Magnet room 16 Width x Height) (TECHNICAL SPECIFICATIONS) Power requirements (VAC, Amps) Line voltage: 380, 400, 420, 440, 480 V, 15 kVA

Cooling requirement: (BTU/ hr.) 15.6 kW BTU

Heat output (TECHNICAL SPECIFICATIONS)

Installed weight (TECHNICAL SPECIFICATIONS) 35 lbs (1 lbs = .45 Kg)INTERFACE CAPABILITY AND SPECIFICATION DICOM storage class user/provider Yes DICOM storage commit compliant (INTERFACE Yes CAPABILITY AND SPECIFICATION) DICOM modality worklist function (INTERFACE Yes CAPABILITY AND SPECIFICATION) DICOM print class user/provider (INTERFACE Yes CAPABILITY AND SPECIFICATION) DICOM Conformance URL (INTERFACE CAPABILITY www.siemensmedical.com AND SPECIFICATION) WARRANTY/SERVICE Uptime Guarantee % (WARRANTY/SERVICE) 97% with Gold contract % Availability of remote diagnostic services Available (WARRANTY/SERVICE) Technical assistance hotline number 1-800-767-2313 (WARRANTY/SERVICE) Warranty length for software [Month(s)] 12 Months (WARRANTY/SERVICE) 12 Months Warranty length on parts[Month(s)] (WARRANTY/SERVICE) Warranty length on labor [Month(s)] 12 Months (WARRANTY/SERVICE) APPLICATIONS TRAINING Quantity of applications training per installation Standard: 4 days off site syngo training for 2 tech. 4 (APPLICATIONS TRAINING) days hands-on at clinical facility, 6 days on site training. Additional support available for fee per installation Off-site, On-site Applications training locale (APPLICATIONS TRAINING) Includes CME/CEU credits (APPLICATIONS Yes TRAINING) MARKET DATA/PRODUCT AVAILABILITY Systems available/Qty. installed in US (MARKET Aug. 2004; one installed and running DATA/PRODUCT AVAILABILITY) Systems available/Qty. installed in Europe July 2004; one installed and running (MARKET DATA/PRODUCT AVAILABILITY) Systems available/Qty. installed in Asia (MARKET June 2004; >5 installed and running DATA/PRODUCT AVAILABILITY) Systems available/Qty installed in ROW (MARKET N/A DATA/PRODUCT AVAILABILITY) High and low range of unit/licenses price N/A (APPLICATIONS TRAINING) Year product introduced (MARKET DATA/PRODUCT 2004 AVAILABILITY) MODEL Siemens Magnetom C! MAGNET SPECIFICATION 14.6 RF frequency MHz (MAGNET SPECIFICATION)

> Permanent Passive

Type (CONFIGURATION)

Shielding (MULTIPLE USE COMPONENTS)

Homogeneity (5-GAUSS FRINGE FIELD)	<4
40 cm DSV ppm	(36cm DSV)
Number of measurement planes (MAGNET SPECIFICATION)	15
Number of points per plane (MAGNET SPECIFICATION)	24
Field stability ppm/hr (MAGNET SPECIFICATION)	<±1.2/10min
COOLING SYSTEM (SYSTEMS)	Heating system to stabilize permanent magnet
Patient aperture:	
Width cm (Patient aperture at narrowest:)	137(side loading)
Depth cm (Patient aperture:)	137(side loading)
Height (pole to pole) cm (Patient aperture:)	42
Height(couch to pole) cm (Patient aperture:)	39
Magnet length with covers cm (Patient aperture:)	215
Scanner length cm	210 (table)
Patient couch:	
Min. height cm (Patient couch:)	82
Max. height cm (Patient couch:)	82
Table top width cm (Patient couch:)	79
Body mass limit (full movement) kg (Patient	200
couch:)	
Mass: magnet only tonnes (MAGNET	16
INSTALLATION DETAILS)	
total tonnes (Patient couch:)	16.73
Depth (with covers) (y) cm (Patient couch:)	209
Width (with covers) (x) cm (MAGNET	137
INSTALLATION DETAILS)	
Height (with covers) (z) cm (Patient couch:)	189
Horizontal (x,y) 0.5 mT fringe field m (Patient	2.2x2.2
couch:)	
Vertical (z) 0.5 mT fringe field m (Patient couch:)	
Minimum installed area m2* (MAGNET INSTALLATION DETAILS)	30
Minimum ceiling height cm* (MAGNET	225
INSTALLATION DETAILS)	
To include 0.5 mT fringe field	
ELECTRONICS CABINETS	
Number (STAINING POSTS)	1
Total width cm (ELECTRONICS CABINETS)	97
Maximum depth cm (ELECTRONICS CABINETS)	66
Maximum height cm (ELECTRONICS CABINETS)	196
COOLING SYSTEM (SYSTEMS)	Air
RF SYSTEM SPECIFICATION	
Name/type/ version of the system (RF SYSTEM SPECIFICATION)	
Number of independent RF receiver channels	2/4
(standard/ optional) (RF SYSTEM SPECIFICATION)	
Bandwidth of each independent RF receiver	0.5
channel (MHz) (RF SYSTEM SPECIFICATION)	

Number of Analog-to- Digital Converters for each independent RF channel (RF SYSTEM SPECIFICATION)	1 (reads out amplitude and phase)
Sampling frequency of each Analog-to-Digital Converter (MHz) (RF SYSTEM SPECIFICATION) GRADIENT SYSTEM SPECIFICATION	10
Shielding (MULTIPLE USE COMPONENTS)	Active
Single axis maximum amplitude	
x mT/m (Single axis maximum amplitude)	24
y mT/m (Single axis maximum amplitude)	24
z mT/m (Single axis maximum amplitude)	24
Single axis slew rate (Single axis maximum amplitude)	
x mT/m/ms (Single axis maximum amplitude)	55
y mT/m/ms (Single axis maximum amplitude)	55
z mT/m/ms (Single axis maximum amplitude)	55
Duty cycle at max amplitude (Single axis	1
maximum amplitude)	
Amplitude @100% duty cycle mT/m (RF SYSTEM SPECIFICATION)	24
Minimum TR ms (GRADIENT SYSTEM SPECIFICATION)	17
Spin echo*	
Minimum TR ms (GRADIENT SYSTEM SPECIFICATION)	3.2
2D gradient echo*	
Minimum TR ms (GRADIENT SYSTEM SPECIFICATION)	2.81
3D gradient echo*	
Minimum echo ms spacing (3D gradient echo*)	3.76
Turbo spin echo*	0.72
Minimum echo ms spacing (3D gradient echo*) Echo planar imagingâ€Â	0.72
Minimum TE ms (Echo planar imaging†)	82
Single-shot diffusion imaging with b-value of 1000 mm2/sâ€Â	
* For 256x256 matrix	
†For 128x128 matrix	
RESOLUTION PARAMETERS	
Minimum FOV mm (RESOLUTION PARAMETERS)	5
Maximum imaging matrix (RESOLUTION PARAMETERS)	512x512 1024x1024
Minimum 2D slice thickness mm (RESOLUTION PARAMETERS)	1.7
Minimum 3D slice thickness mm (RESOLUTION PARAMETERS)	