

## MAGNETOM Concerto Specifications

MODEL	MAGNETOM Concerto
MAGNET	PermanentC-shaped
POWER NEEDED	
LINE VOLTAGE, VAC	380/400/420/440/480
Kva (POWER NEEDED)	15
A/c, btu/hr (POWER NEEDED)	14.3 kW peak
CLINICAL USE (POWER NEEDED)	Whole body
ECHO PLANAR IMAGING (CARDIAC GATING)	Haste-based diff
SURFACE COILS	
Spine (SURFACE COILS)	CP body array
Knee (SURFACE COILS)	Extremity array S,L
Neck (SURFACE COILS)	Large and small
Extremity (SURFACE COILS)	Large and small
Head (SURFACE COILS)	CP head array
Shoulder (SURFACE COILS)	Shoulder array
Additional (Alarms, high/low)	MP11, CP wrist, CP XXL
BORE SIZE, dia x L	
Or w x h x l, cm (BORE SIZE, dia x L)	41 dia
CARDIAC GATING	
Ecg/peripheral (CARDIAC GATING)	Yes/yes
DICOM 3.0 COMPATIBLE (POWER NEEDED, VAC)	Yes
5-GAUSS FRINGE FIELD	
Radial/axial, m (5-GAUSS FRINGE FIELD)	2.2 m in front, 1.9 m behind, 2.1 m to each side,1.9 m above.
Angiography	Yes
SHIMMING (CRYOGEN USE, L/hr)	Preshim passive, active linear terms
Diameter, cm (VACUUM)	
Body coil (DIAMETER, cm)	78.7, 96.5, 116.8, 127; 4 coils
Head coil (DIAMETER, cm)	21 x 21
IMAGING MODES	
Single (EYEPIECE)	Yes
Multislice (IMAGING MODES)	Yes
Volume study (IMAGING MODES)	Yes
Additional (Alarms, high/low)	Multiangle, multioblique
Reconstruction time	
Single slice, sec (RECONSTRUCTION TIME)	0.0056@ full 256 x 256
Multislice, sec (RECONSTRUCTION TIME)	0.0056/slice @ full 256 x 256
Volume, sec (RECONSTRUCTION TIME)	0.0056/slice @ full 256 x 256
Respiratory gating (DISPLAY)	Triggering
BORE FEATURES (DIAMETER, cm)	Nurse call, intercom
MAGNET WEIGHT, kg (CRYOGEN USE, L/hr)	11500

DIMENSIONS (HXWXD),CM (CRYOGEN USE, L/hr)	193 x 120 x 195
ELECTROMAGNETIC FIELD STRENGTH, T (5-GAUSS FRINGE FIELD)	0.2
Homogeneity (5-GAUSS FRINGE FIELD)	4.0 ppm @ 36 cm DSV
IMAGING	
Pulse sequences (IMAGING)	SE, GRE, IR, FIR, STIR, TFLAIR, MT, TSE, SS-TSE, FISP, FLASH, MR- GP, HASTE, TFLASH, GMR, 3-D: FLASH/DESS/CISS/ PSIF/MEDIC/TrueFISP/ WEFLASH/tMRA 3.2D 3
Repetition time, msec (IMAGING)	18 SE, 4.2 TrueFISP
Echo time, msec (IMAGING)	0.98 CE-MRA, 7.6 SE
Inversion time, msec (IMAGING)	35
Slice thickness, mm (GANTRY)	1.7 (2-D), 0.05 (3-D)
Fov, cm (IMAGING)	0.5-40
Scan orientations (IMAGING)	Orthogonal (x, y, z); oblique second compound
Measuring matrix (IMAGING)	128 x 128 to 512 x 512
Display matrix (IMAGE DISPLAY)	1024 x 1024 full screen
Resolution, mm (PERFORMANCE)	0.33
GRADIENT SUBSYSTEM	
Strength, mt/m (GRADIENT SUBSYSTEM)	20
Rise time to 10 mt/m, msec (GRADIENT SUBSYSTEM)	0.5 (to 20)
Cpu (NETWORK/DATABASE)	Dual Pentium IV
Memory size, mb (GRADIENT SUBSYSTEM)	72 GB HD, 2 GB RAM 2
ARRAY PROCESSOR (EXTERNAL BEAM)	Dual Pentium IV
Memory size, mb (GRADIENT SUBSYSTEM)	5x18 GB HD, 1 GB RAM
Storage media/size (GRADIENT SUBSYSTEM)	CD-ROM
Image storage capacity (GRADIENT SUBSYSTEM)	Approx5,000
OPTIONS	MRI-guidedprocedures kit, comfort kit, cardiac evaluation package, extra memory, hard disk expansion
CONFIGURATION	Open
OTHER ATTRIBUTES (Interference compensation)	Integrated MIP and MPR; standard integrated imagenoise filters; VCR interface opt; cine display; remotediagnosics package; quantitative analysis; 2 coils plug in simultaneously.
FDA CLEARANCE (Interference compensation)	Yes
CE MARK (MDD) (Interference compensation)	Yes
MARKETING REGION (Interference compensation)	Wo