

V.A. Medical Center

VA MEDICAL CENTER

650 E INDIAN SCHOOL

PHOENIX, AZ 85012

Qty Part No. Item Description

MAGNETOM Prisma is the 3T PowerPack for exploration.

Based on a unique 3T platform to help you tackle the most demanding clinical and research challenges of today and tomorrow, you have the power to outperform in the most ambitious projects. With exciting new applications delivering higher anatomical detail and opening new areas of research, you have the power to explore and enter new areas of research. You and your collaborators will benefit from the reproducibility standards of Dot, giving you the power to succeed and set the future trends in imaging.

System Design

- Unmatched, whole-body superconductive Zero Helium Boil-Off 3T magnet
- XR 80/200 gradient system
- Higher Order shim, delivering 5A/channel
- Parallel transmit with TimTX TrueShape technology
- High-performance measurement and reconstruction system, with 2 GPGPUs standard
- Tim 4G (Total imaging matrix in the 4th generation) for excellent image quality and speed
- Siemens unique DirectRF(tm) technology enabling the all digital-in/ digital-out design
- Dual-Density Signal Transfer Technology
- Head/Neck 20 DirectConnect
- Spine 32 DirectConnect
- Body 18
- Flex Large 4
- Flex Small 4
- Flex Coil interface
- Tim Coil interface

Dot (Day optimizing throughput) for higher consistency, flexibility and efficiency

- Dot Display
- Dot Control Centers
- Brain Dot Engine

Tim Application Suite allowing excellent head-to-toe imaging

- Neuro Suite
- Angio Suite
- Cardiac Suite
- Body Suite
- Onco Suite
- Breast Suite
- Ortho Suite
- Pediatric Suite
- Scientific Suite

Further included

- High performance host computer
- Siemens unique TimCT FastView localizer and CAIPIRINHA
- syngo MR software including
- 1D/2D PACE
- BLADE
- iPAT²
- Phoenix
- Inline Diffusion
- WARP
- MDDW (Multiple Direction Diffusion Weighting)
- CISS
- DESS
- ZOOMit

Qty**Item Description**

1

Tim [204x64] XR Gradients #P

Tim [204x64] XR gradients performance level

Tim 4G's RF system and innovative coil architecture enables high resolution imaging and increased throughput. Up to 204 simultaneously connected coil elements allow in combination with the fully integrated 64 independent RF channels for the most flexible parallel imaging and support the most demanding applications. Maximum SNR is ensured through the new Tim 4G matrix coil technology.

XR gradients

The XR 80/200 gradients are the most powerful commercially available gradients of any clinical scanner currently on the market. The XR gradients combine a maximum gradient amplitude of 80 mT/m with a 200 T/m/s slew rate, capable of driving higher SNR throughout all regions of the body. Even under high stress conditions, the XR gradients bring excellent performance thanks to a rock-solid design. Dedicated force compensation on each axis yields low vibrations and low acoustic noise while the high-performance cooling for each individual axis allows full duty cycle over long-term measurements with outstanding stability. The XR 80/200 gradients push the limits of performance to a new level.

1

PC Keyboard US english #Tim

Standard PC keyboard with 101 keys.

1

Tim Dockable Table #P

The Tim Dockable Table is designed for maximum patient comfort and smooth patient preparation. Tim Dockable Table can support up to 250 kg (550 lbs) patients without restricting the vertical or horizontal movement.

The one step docking mechanism and the innovative multi-directional navigation wheel ensure easy maneuvering and handling. Critically ill or immobile patients can now be prepared outside the examination room for maximum patient care, flexibility and speed.

1

Add. Tim Dockable Table #P

Additional mobile table solution with integrated removable Spine 32 for installations that already have a Tim Dockable Table and would like to increase their throughput even more.

Qty**Item Description**

1

Head/Neck 20 DirectConnect #Sk

The Tim 4G coil technology with Dual Density Signal Transfer and DirectConnect Technology combines key imaging benefits: excellent image quality, high patient comfort, and unmatched flexibility.

The 20-channel coil with its 20 integrated pre-amplifiers ensures excellent signal-to-noise ratio. The unique DirectConnect technology allows users to connect the 20 coil elements of the Head/Neck 20 without cables. The patient friendly open design allows for maximum patient comfort which is supported in addition by a look-out mirror for claustrophobic patients.

The Head/Neck 20 features:

- 20-element design with 20 integrated preamplifiers two rings of 8 elements each and one ring with 4 elements in the neck region
- First cable-less 16-channel head coil with DirectConnect technology
- Combined head/neck coil for an optimized workflow of the head/neck region
- Upper coil part removable
- Lower coil part usable without upper part for highly claustrophobic patients
- Lower coil part may stay on the patient table for most of the examinations
- Smoothly integrated into the patient table with Spine 32
- Open patient-friendly design
- Cushioned head stabilizers (removable)
- No coil tuning
- iPAT-compatible in all directions
- Dual-Density Signal Transfer enables ultra-high density coil designs by integrating key RF components into the local coil
- Detachable look-out mirror

Applications:

- Head examination
- Neck examination
- MR Head Angiography
- MR Neck Angiography
- Combined head / neck examination
- TMJ (temporo mandibular joints)

Typically combined with:

Spine 32 coil, Body 18 (optional), Peripheral Angio 36 (optional) or flexible coils such as Flex Large 4, Body Matrix coils (up to 4; optional)

Qty	Item Description
1	<p>Advanced Dot Imaging Package #T+D</p> <p>The following components are already included in the DotGO Advanced Package:</p> <ul style="list-style-type: none"> - Angio Dot Engine - Abdomen Dot Engine <p>The Angio and Abdomen Dot Engine offer a comprehensive set of guidance and automation, so that robust image quality can be achieved efficiently and consistently for Vascular and Abdominal MR imaging.</p> <p>Angio Dot Engine</p> <p>The timing of contrast injection and scan is widely considered the most challenging part of an angiographic exam. Angio Dot guides the user through angiographic single or multi station examinations by providing semi-automatic detection of arterial and venous timing windows using a test bolus technique. This information is fed back into the next planning steps automatically adapting scan parameters to the individual patient and patient's condition.</p> <p>Where needed, AutoVoiceCommands support the communication with the patient and ensure optimal timing of breathing, scanning and contrast media. All steps of contrast injection are presented in a simple, automated graphic on the monitor.</p> <p>syngo Inline Composing and the Tim Planning Suite are included.</p> <p>Abdomen Dot Engine provides:</p> <ul style="list-style-type: none"> - Personalized Exam Strategies - Guidance - Automatic sequence scaling - Auto Navigator - Auto-FoV - Timeline setup and monitoring - Automatic Voice Commands - Auto Bolus Detection - Inline radial range calculation for MRCP - Inline Subtraction - Inline Registration
1	<p>Composing syngo #Tim</p> <p>This application provides dedicated evaluation software for creation of full-format images from overlapping MR volume data sets and MIPs (starting from syngo MR B13) acquired at multiple stages.</p>
1	<p>Native syngo #Tim</p> <p>Integrated software package with sequences and protocols for non-contrast enhanced 3D MRA with high spatial resolution. syngo NATIVE particularly enables imaging of abdominal and peripheral vessels and is an alternative to MR angiography techniques with contrast medium, especially for patients with severe renal insufficiency.</p>
1	<p>Tissue 4D syngo #Tim</p> <p>Tissue 4D is an application for visualizing and post-processing dynamic contrast-enhanced 3D datasets.</p> <p>This card provides two evaluation options:</p> <ul style="list-style-type: none"> - Standard curve evaluation - Curve evaluation according to a pharmacokinetic model
1	<p>Cardiac Dot Engine, USA #T+D</p> <p>Cardiac examinations: Dot Cardiac - Customized workflows that are easier to repeat. Using anatomical landmarks, standard views of the heart (such as dedicated long axis and short-axis views), are easily generated and can easily be reproduced using different scanning techniques. Scan parameters are adjusted to the patient's heart rate and automatic voice commands are given.</p>
1	<p>Flow Quantification #Tim</p> <p>Special sequences for quantitative assessment of flow.</p>

Qty	Item Description
1	Argus Flow
1	Advanced Cardiac Package #T+D This package contains special sequences and protocols for advanced cardiac imaging including 3D and 4D syngo BEAT functionalities. It supports advanced techniques for ventricular function imaging, dynamic imaging, tissue characterization, coronary imaging, and more.
1	Argus 4D Ventr.Function syngo #Tim syngo Argus 4D Ventricular Function software processes MR cine images of the heart and generates quantitative results for physicians in the diagnostic process.
1	Interactive RealTime #Tim Interactive Realtime Imaging for interactive acquisition, reconstruction and display of image data. Uses ultra-fast TrueFISP and other gradient-echo sequences of high image contrast. The user can interactively navigate in all planes on-the-fly during data acquisition.
1	Large Joint Dot Engine #T+D Large Joint Dot Engine optimizes image quality of knee, hip and shoulder scans by proposing the most appropriate protocols according to the examination strategy chosen for the specific patient. It ensures reproducible image quality and streamlines large joint examinations to a great extent. The Large Joint Dot Engine features AutoAlign and AutoCoverage for knee, hip and shoulder, syngo WARP with VAT (View Angle Tilting), and Inline MPR.
1	Mapit syngo #Tim Based on the T1, T2 or T2* properties of the cartilage syngo ParametricMap allows the early detection of osteoarthritic break down of cartilage structures even before morphological changes occur. The method supports therapeutic decisions in individual patients and can be used to control treatments non-invasively, replacing surgeries or biopsies. The assessment of T1, T2 and T2* properties of tissues in other body regions is also possible. syngo ParametricMap provides very fast 2D and 3D high resolution imaging sequences and the Inline calculation of parametric maps for the T1, T2 and T2* properties of the imaged tissue.
1	Image Fusion syngo This application provides a dedicated evaluation software for spatial alignment (matching) and visualization of image data either from different modalities (CT,MR,NM,PET) or from the same modality but from multiple examinations of the same patient. It supports optimal diagnostic outcome (fusion of morphological and functional information) and therapy planning.
1	Spine Dot Engine #T+D The Spine Dot Engine provides optimized cervical, thoracic and lumbar spine imaging. Amongst various features to support streamlined spine workflow is Labeling of the vertebrae suggested by the system, Tim Planning Suite and In-line Composing. syngo WARP with View Angle Tilting (VAT) technique is provided for reducing in-plane geometric distortions syngo WARP can be used throughout the body.
1	Inline Perfusion #3T Automatic real-time calculation of Global Bolus Plot (GBP), Percentage of Baseline at Peak map (PBP), and Time-to-Peak map (TTP) with Inline technology.
1	Neuro Perfusion Evaluation,USA #T+D Neuro Perfusion Evaluation syngo provides a task card for detailed post-processing of brain perfusion data sets. Color display of the relative Mean Transit Time (relMTT), relative Cerebral Blood Volume (relCBV), corrected rel CBV, and relative Cerebral Blood Flow (relCBF) is supported. Flexible selection of the Arterial Input Function (AIF). Furthermore a calculation of maps using the pre-selected local Arterial Input Functions (AIF) is provided. The detailed evaluation of brain perfusion data sets generates parameter maps for TTP and PBP and for the hemodynamic parameters relMTT, relCBV, rel CBVcor and relCBF.

Qty	Item Description
1	<p>DTI Package #P</p> <p>The DTI Package is a bundle of:</p> <ul style="list-style-type: none"> - Diffusion Tensor Imaging - DTI Evaluation and - DTI Tractography syngo <p>The bundle comprehends all acquisition and postprocessing tools for comprehensive DTI exams.</p>
1	<p>Neuro fMRI Package #T+D</p> <p>The Neuro fMRI Package is a bundle of:</p> <ul style="list-style-type: none"> - Inline BOLD Imaging - 3D PACE syngo - BOLD 3D Evaluation syngo - fMRI Trigger Converter <p>The bundle comprehends all acquisition and post processing tools for comprehensive BOLD fMRI exams.</p>
1	<p>RESOLVE #T+D</p> <p>RESOLVE is a diffusion-weighted, readout-segmented EPI sequence optimized towards high resolution imaging with reduced distortions. The sequence uses a very short echo-spacing compared to single-shot EPI, substantially reducing susceptibility effects. A 2D-navigator correction is applied to avoid artefacts due to motion-induced phase errors. This combination allows diffusion weighted imaging of the breast, prostate, brain and spine with a high level of detail and spatial precision.</p>
1	<p>Arterial Spin Labeling 3D #T+D</p> <p>ASL is a non contrast enhanced brain perfusion technique. A 3D volume is acquired with high SNR by using a turbo gradient spin echo technique and an ASL preparation module to achieve clinically feasible scan times.</p>
1	<p>SWI #Tim</p> <p>Susceptibility Weighted Imaging is a high-resolution 3D imaging technique for the brain with ultra-high sensitivity for microscopic magnetic field inhomogeneities caused by deoxygenated blood, products of blood decomposition and microscopic iron deposits. Among other things, the method allows for the highly sensitive proof of cerebral hemorrhages and the high-resolution display of venous cerebral blood vessels.</p>
1	<p>Spectroscopy Package #T+D</p> <p>The Spectroscopy Package is a comprehensive software package which bundles Single Voxel Spectroscopy, 2D Chemical Shift Imaging, 3D Chemical Shift Imaging and syngo Spectroscopy Evaluation.</p> <p>Sequences and protocols for proton spectroscopy, 2D and 3D proton chemical shift imaging (2D CSI and 3D CSI) to examine metabolic changes in the brain (e.g. in tumors and degenerative diseases) and in the prostate are included. Furthermore included is the comprehensive syngo Spectroscopy Evaluation Software which enables fast evaluation of spectroscopy data on the syngo Acquisition Workplace.</p>
1	<p>Multinuclear Support #Sk</p> <p>The hardware and software package required to prepare the MR system for spectroscopy and nuclear imaging with the nuclei ³He, ⁷Li, ¹³C, ¹⁷O, ¹⁹F, ²³Na, ³¹P, and ¹²⁹Xe. A Tim Coil Interface MNO for connecting multi-nucleus coil is included.</p> <p>Coils with preamplifiers and transmitter duplexers as well as optimized pulse sequences for the individual nuclei are not included.</p>
1	<p>Multinuclear Spectroscopy #Sk</p> <p>Software package for CSI spectroscopy with ⁷Li, ¹³C, ¹⁷O, ¹⁹F, and ³¹P nuclei.</p>

Qty	Item Description
1	<p>Tim Coil Interface MNO</p> <p>Coil adapter plug for up to 8 receive and 1 transmit channels, in order to connect dedicated multinuclear coils with MAGNETOM Skyra Systems.</p>
1	<p>SpectroShim Support #P</p> <p>The SpectroShim option provides additional shimming power to improve inhomogeneities.</p>
1	<p>TWIST syngo #Tim</p> <p>This package contains a Siemens unique sequence and protocols for time-resolved (4D) MR angiographic and dynamic imaging in general with high spatial and temporal resolution. syngo TWIST supports comprehensive dynamic MR angio exams in all body regions. It offers temporal information of vessel filling in addition to conventional static MR angiography, which can be beneficial in detecting or evaluating malformations such as shunts. In case of general dynamic imaging, for example an increase in spatial resolution by a factor of up to 2 at 60 seconds temporal resolution (compared to conventional dynamic imaging) is possible due to intelligent k-space sampling strategies. Alternatively, increased temporal resolution at constant spatial resolution is possible.</p>
1	<p>syngo Expert-i #T+D</p> <p>This software application enables remote access to the system (connected via local area network) for planning and processing.</p>
1	<p>Peripheral Angio 36 #Sk</p> <p>The new Tim 4G coil technology with Dual Density Signal Transfer and SlideConnect Technology combines key imaging benefits: excellent image quality, high patient comfort, and unmatched flexibility:</p> <ul style="list-style-type: none"> - 36 channels - Dual Density Signal Transfer - Ultra light-weight - SlideConnect Technology <p>The 36-channel coil includes 36 integrated pre-amplifiers for excellent signal-to-noise ratio. The single SlideConnect Plug allows for fast and easy patient preparation.</p> <p>The Peripheral Angio 36 features:</p> <ul style="list-style-type: none"> - 36-element design with 36 integrated preamplifiers, distributed over 6 planes with 6 elements each - Operates in an integrated fashion with Body 18 coils and with the Spine 32 . For Whole-Body examinations also with the Head/ Neck 20 - Automatic table feed and active coil switch - Can be utilized head and feet first - Both legs are independently covered with coil elements, maximizing the coil filling factor and the signal-to-noise ratio - No coil tuning - iPAT-compatible - Dual-Density Signal Transfer enables ultra-high density coil designs by integrating key RF components into the local coil - SlideConnect technology for easy coil set up - One cable only for easy handling - Includes special non-ferromagnetic coil cart for safe, user-friendly storage <p>Applications:</p> <ul style="list-style-type: none"> - High-resolution angiography of both legs incl. Pelvis (by additional use of the Body 18) with highest signal-to-noise ratio - Visualization of the iliac arteries and aorta in combination with Body 18 - Bilateral examinations of long bones of the legs <p>Typically combined with:</p> <p>Head/ Neck 20, Body 18, Spine 32, and all flexible coils such as Flex Large 4 or Flex Small 4</p>

Qty**Item Description**

1

Shoulder 16 Coil Kit #Sk

The new Tim 4G coil technology with Dual Density Signal Transfer and SlideConnect Technology combines key imaging benefits: excellent image quality, high patient comfort, and unmatched flexibility. The Shoulder 16 Coil Kit for examinations of the left or right shoulder consists of a base plate and two different sized iPAT compatible 16 channel coils (Shoulder Large 16 and Shoulder Small 16). These will be attached and can be relocated on the base plate. The 16-element coils with 16 integrated pre-amplifiers ensure maximum signal-to-noise ratio. Shoulder Large 16 and Shoulder Small 16 will be connected via a SlideConnect plug for fast and easy coil set-up and patient preparation.

1

Hand/Wrist 16 #Sk

The new Tim 4G coil technology with Dual Density Signal Transfer and SlideConnect Technology combines key imaging benefits: excellent image quality, high patient comfort, and unmatched flexibility.

Hand/Wrist 16 for examinations of the left or right hand and wrist region consists of a base plate and an iPAT compatible 16-channel coil and allows high resolution imaging of the wrist and the hand within one examination. Hand/Wrist 16 will be connected via a SlideConnect plug for fast and easy patient preparation.

1

Foot/Ankle 16 #Sk

The new Tim 4G coil technology with Dual Density Signal Transfer and DirectConnect Technology combines key imaging benefits: excellent image quality, high patient comfort, and unmatched flexibility.

Foot/Ankle 16 for examinations of the left or right foot and ankle region consists of a base plate and an iPAT compatible 16-channel coil and allows high resolution imaging of the foot and ankle within one examination. Foot/Ankle 16 is a cable-less coil and will be connected via DirectConnect for fast and easy patient preparation.

1

Tim Coil Interface 3T

Coil adapter plug for up to 8 receive and 1 transmit channels, in order to connect existing dedicated knee and breast coils (Tx/ Rx 15-channel Knee Coil, CP Extremity Coil, 4-channel BI Breast Coil, 16-channel AI Breast Coil, 2/4/8-channel Sentinelle BreastCoil and (2/10)/16-channel Sentinelle BreastCoil) with all MAGNETOM 3T Systems using Tim 4G-technology.

Qty**Item Description**

1

Body 18 #Sk

The Tim 4G coil technology with Dual Density Signal Transfer and SlideConnect Technology combines key imaging benefits: excellent image quality, high patient comfort, and unmatched flexibility:

- 18 channels (inherent) or up to 30 (in combination with the Spine 32)
- Dual Density Signal Transfer
- Ultra light-weight
- SlideConnect Technology

The Body 18 is part of the standard configuration. The 18-channel coil with its 18 integrated pre-amplifiers ensures excellent signal-to-noise ratio. The 18 coil elements provide extensive coverage in all directions. The single SlideConnect plug allows for fast and easy patient preparation. The light-weight coil ensures highest patient comfort.

The Body 18 Coil features:

- 18-element design with 18 integrated preamplifiers (3 clusters of 6 elements each)
- Operates in an integrated fashion with the Spine 32 as an 30 channel body coil
- Can be combined with further Body 18 coils for larger coverage
- Can be positioned in different orientations (0°, 90°, 180°, 270°) for patient specific adaptations
- No coil tuning
- iPAT compatible in all directions

The highly flexible design enables a wide variety of applications including:

- Thorax (incl. heart)
- Abdomen
- Pelvis
- Hip

Typically combined with:

- Head / Neck 20
- Spine 32
- Additional Body 18 coil(s) (optional)
- Peripheral Angio 36 (optional)
- Flex Large 4
- Flex Small 4
- Loop 3T coils (optional)
- Endorectal coil (optional)

1

Tx/Rx CP Head Coil #Sk

Circularly polarized no-tune transmit/receive coil with an open patient-friendly design. The integrated transmit mode allows volume selective excitation. Integrated, extremely low-noise pre-amplifiers permit very high signal-to-noise ratio. Furthermore, the coil is outfit with SlideConnect Technology, allowing for easier patient preparation and less table time for the patient.

Qty**Item Description**

1

Head/Neck 64 #P,Sk

Tim 4G coil technology with Dual Density Signal Transfer and DirectConnect Technology combines key benefits translating into excellent image quality: highest SNR, extreme iPAT performance, high patient comfort, and unmatched flexibility.

The 64-channel head/neck coil with its 64 integrated pre-amplifiers ensures an outstanding signal-to-noise ratio. The unique DirectConnect and SlideConnect technologies allow users to connect 64 coil elements of the Head/Neck 64 with just one cable. The very open design ensures its patients will feel comfortable, while the anatomic design ensures highest signal-to-noise.

The Head /Neck 64 features:

- 64-element design with 64 integrated preamplifiers, 40 elements in the head region 24 elements in the neck region.
- Integrated SlideConnect and DirectConnect technology
- Combined head/neck coil for an optimized workflow
- Upper coil part removable
- Lower coil part usable without upper part for highly claustrophobic patients
- Smoothly integrates into the patient table with Spine 32
- Open patient-friendly design
- Cushioned head stabilizers (removable)
- No coil tuning
- iPAT-compatible in all directions
- Optimized for sequences using iPAT²
- Dual-Density Signal Transfer enables ultrahigh density coil designs by integrating key RF components into the local coil
- Rear opening for up to 128 EEG electrode leads
- Detachable look-out mirror

Applications:

- Head examination
- Neck examination
- Cervical spine examination
- MR Head Angiography, also time-resolved
- MR Neck Angiography
- Combined head/ neck examination
- TMJ (temporo mandibular joints)

Typically combined with:

Spine 32, Body 18, Peripheral Angio 36 (during whole body imaging) or flexible coils such as Flex Large 4

1

Special Purpose Coil #Sk,Sp

The 4-channel special purpose coil is a no-tune receiver coil designed for examination with small Field-of-Views.

1

MR Workplace Table 1.2m

Table suited for syngo Acquisition Workplace and syngo MR Workplace based on syngo Hardware.

1

MR Workplace Container, 50cm

50 cm wide extra case for the syngo host computer with sliding front door to allow change of storage media (CD/DVD/USB).

Qty	Item Description
1	<p>Soft Tissue Motion Correction #Tim</p> <p>3D post-processing step, elastic soft tissue/breast motion correction. The algorithm enables higher accuracy in detection of multi-focal lesions.</p> <p>Key features are:</p> <ul style="list-style-type: none"> - possible for images with matrix sizes up to 512x512 - w/o contrast media and on 2D/3D datasets - works on fat sat, water excitation and non fat sat - independent on slice orientation - original images remain untouched <p>This option includes BRACE (BREast Acquisition and CorrEction) functionalities.</p>
1	<p>Patient Supervision TV #T+D</p> <p>The supervision solution is customizable and designed to address different site specific requirements. Up to 4 cameras can be connected for patient supervision in the examination or waiting room.</p> <p>This package contains a special video camera for monitoring the patient during an MR examination, conveniently mounted on the wall of the examination room. The information is displayed at an LCD monitor in the control room.</p>
1	<p>Patient TV wall support</p> <p>Wall mount for the patient monitor.</p>
1	<p>Comfort Kit #T+D</p> <p>Vacuum cushions for stable positioning of the patient during the examination. The kit comprises of an integrated vacuum pump and 3 anatomically shaped (spine, head, small joints) cushions of different sizes.</p>
1	<p>Coil Storage Cart #T+D</p> <p>Specially designed non-ferromagnetic cart for easy storage of the most commonly used coils and accessories.</p>
1	<p>Separator 60kW</p> <p>The SEP (Separation cabinet) has to be used if a central hospital chilled water supply is available or if a chiller of any brand/type is already available. The SEP is the interface between the on-site water chiller (of any brand or type) or the interface to the central hospital cooling water supply. For the above-mentioned cases the SEP is mandatory!</p> <p>In these cases, the primary water specifications must fulfill the requirements (i.e. 63 kW heat dissipation; 100+-10l/min flow; 6 to 12°C water temperature; pH value 6 to 8, max. working pressure 6 bar).</p> <p>Dimensions: 1950mm x 650mm x 650mm (height x width x depth) Weight: approx. 340kg</p>
1	<p>UPS Cable #Tim</p> <p>Power cable for connecting the UPS Powerware PW 9130-3000i (14413662) to the ACC of MAGNETOM Tim and MAGNETOM Tim+Dot systems for backing up the computer.</p> <p>Standard cable length: 9 m.</p>

Qty	Item Description
1	<p>UPS Powerware PW9130G-3000T-XLEU</p> <p>UPS system Eaton PW9130G-3000T-XLEU for MAGNETOM Tim, MAGNETOM Tim+Dot and MAGNETOM Symphony systems for safeguarding computers.</p> <p>Power output: 3.0 kVA / 2.7 kW</p> <p>Bridge time: 5 min full load / 14 min half load</p> <p>Input voltage: 230 VAC</p>
1	<p>UPS Battery module</p> <p>UPS battery module Eaton PW 9130N-3000T-EBM for all MAGNETOM Tim, MAGNETOM Tim+Dot and MAGNETOM Symphony systems for safeguarding computers.</p> <p>Extension for: PW9130i-3000T</p> <p>Battery type: Closed, maintenance-free</p> <p>Extension of the bridge time to: 24 minutes with a module</p> <p>Dimensions (H x W x D): Battery module: 346 x 214 x 412 mm</p> <p>incl. bracket set</p> <p>Weight: approx. 50 kg</p>
1	<p>Additional Set of Manuals</p> <p>Additional set of manuals for the above selected MR system.</p>
1	MR_GOV_RIG_INSTL
1	T+D Preinstall kit for dockable table
1	Standard Cryogenics
1	<p>MR Project Management</p> <p>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.</p>
1	<p>Initial onsite training 32 hrs</p> <p>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.</p>
1	Offset for Initial onsite train 32 hrs
1	<p>Follow-up training 32 hrs</p> <p>Up to (32) hours of follow-up on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. 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.</p>
1	<p>Additional onsite training 24 hours</p> <p>Up to (24) 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.</p>

Qty	Item Description
1	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.
1	GOV'T ONLY - MR Training Class Tuition for (1) government attendee to attend a classroom course of choice at one of the Siemens training centers. 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.
1	Armrest #MR
1	DTS chiller - 60 kW 60 kW water/glycol air-cooled heat exchanger/chiller package for outside installation. Features dual tandem refrigerator circuits and dual redundant pumps. Unit also includes fluid reservoir and controls as well as remote control display to monitor the heat exchanger package operation from indoors at the operator's work station. This design also includes the features to meet the specification of OSHPD requirements. For use with Siemens SEP cabinet. Pricing also includes: Filter & flow meter kit Service package including two start-up visits (one upon cold head start-up, one at commissioning), one PM visit during 12 month P&L warranty period. One year warranty through Dimplex Thermal Solutions. Customer is responsible for rigging and installation. Customer is responsible for providing glycol as specified by the manufacturer. Coastal and low ambient temperature chillers are available. Customer is responsible for rigging and installation. Coastal and low ambient temperature chillers are available.
1	Start-up of DTS chiller
1	9390 160kVA UPS Includes: PW9390 160kVA Electronics Cabinet, (1) Battery Cabinet with hold over time of 8 minutes @ .9 pf, UPS includes: Single Feed Option, Hi-Res Delta Kit, and 8" Side Car housing 3-Circuit Breaker, 480V, 35kAIC Integrated Maintenance Bypass. Start-Up (5x8) and One (1) Year On-Site Parts and Labor coverage (7x24), Plus One (1) Year of remote monitoring. Installation including rigging, electrical, and any HVAC required is not included and is the responsibility of the customer or its contractor.
1	9390 100-160kVA UPS Cabinet Calc
1	9390 IBC-L Battery Cabinet Calculations
1	9390 100-160kVA UPS Cabinet Bracket Pair
1	9390 IBC-L Battery Cabinet Bracket Pair

Qty**Item Description**

1

Spectris Solaris EP Injector iCBC

Includes Spectris Solaris EP injector and Integrated Continuous Battery Charger (iCBC).

- Optimized color touch screen with few keystrokes.
- Six user-programmable phases for added flexibility.
- Independent Keep Vein Open (KVO) allows more time to focus on patient.
- Large 115 mL saline syringe allows for longer KVO and multiple flushes.
- Design of low pressure tubing eliminates dead space in the "T" connection that can waste contrast.
- The clear barrel design with molded FluidDots help detect the presence of air in a syringe.
- Pressure Limit Setting control software enables user to select from one to six preset maximum pressure limits, ranging from 100-300 psi, and to view current pressure during injection next to the pre-selected maximum value on the Solaris display.

Installation, applications and one year warranty provided by Medrad.

Not for mobile use, refer to Siemens part number M3SSMR300EPM for the Solaris injector used in a mobile environment.

This product has been tested and verified for compatibility with the following Siemens' products: MAGNETOM Trio, Espree, Essenza, Verio, Avanto, Symphony, Aera, Skyra and Biograph mMR. Compatibility with other products cannot be guaranteed and use with any other products may void service contracts and/or system warranties.

1

MR Wall sign -English

Highly durable 1mm PVC wall signs with high-tack, double-back tape. Sticks to most any surface. English. 12" x 18".

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Nordic fMRI solution- Basic

The nordic fMRI Solution is an integrated set of hardware and software components that allows a single clinician to conduct an entire fMRI procedure.

The nordic fMRI Solution consists of components: (1) stimulus presentation and software, (2) hardware for auditory and visual stimulus presentation, response collection, and timing synchronization. Key components: Sync and Response Unit - Optical input from Siemens scanner, 2 hand-held grips (2 buttons per grip). - Synchronization of stimulus presentation with image acquisition and collection of patient responses. In Room monitor - 32" display with pedestal for positioning in the MR room. PC and 19" screen - Desktop PC for presentation of paradigms and running of music CD's and DVD's. Includes dual-link graphic output for in-room monitor. nordicAktiva - Stimulus presentation software. Includes a library of several paradigms for mapping cognitive, sensorimotor and language areas. Software components: The stimulus presentation and workflow software controls the presentation of stimuli during fMRI exams, and has been designed specifically with the clinical user in mind. It offers a collection of standard clinical paradigms, allowing physicians to test perceptual, motor, and cognitive functions in clinical settings.

Installation, on-site training and one year warranty provided by NordicNeuroLab.

This product has been tested and verified for compatibility with the following Siemens' products: MAGNETOM Aera, Skyra, Verio, Trio, Essenza, Espree, Avanto Symphony, and Biograph mMR. Compatibility with other products cannot be assured and may void service contracts and/or system warranties.

Qty	Item Description
1	<p>IEC Main Disconnect Panel - MR Integrated Electrical Cabinet/Main Disconnect Panel for MR.</p> <p>Components supplied: The IEC Main Disconnect Panel This Operations & Maintenance Manual (4) sets of Emergency Power Off pushbuttons and installation instructions Drawings and electrical schematics</p> <p>DOES NOT INCLUDE installation. Customer is responsible for the installation of the cabinet. Includes one year warranty.</p>
1	<p>Advanced Expression w/Draeger Mount ECG, SpO2, EtCO2, NIBP, Agents, Body Temperature with printer and 1 wireless display (can be used in both rooms) o Accessories to perform all the above parameters on 20-30 (each) Adult, Pediatric and Neonatal patients o Gating connector included o Mounting hardware for the Draeger Anesthesia Machines Includes installation and one year warranty through Invivo. This product has been tested and verified for compatibility with the following Siemens' products: MAGNETOM Symphony, Avanto, Espree, Trio, Skyra, Verio, Aera, Essenza, and Biograph mMR. Compatibility with other products cannot be assured and may void service contracts and/or system warranties.</p>
1	<p>Invivo Expression wireless display Can be combined with any of the Expression DCU monitors for a redundant display. Includes installation and one year warranty through Invivo. This product has been tested and verified for compatibility with the following Siemens' products: MAGNETOM Symphony, Avanto, Espree, Trio, Skyra, Verio, Aera, Essenza, Biograph mMR. Compatibility with other products cannot be assured and may void service contracts and/or system warranties.</p>

One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.

Offset Part MR_FOLLOWUP_32 Follow-up training 32 hrs

Offset Part 14407354 Additional Set of Manuals

Airfare for Complimentary Biomedical Training for one engineer from PHX - RDU at : /roundtrip

Lodging for Complimentary Biomedical Training for one engineer for 24 nights at