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P.O.# 516-B80029

Qty	Item Description
1	**Artis Q ceiling Interv. Rad.** Artis Q ceiling for interventional radiology The Artis Q product line is setting new standards in interventional imaging. The Artis Q ceiling for interventional radiology now features PURE(r). PURE adds smooth interaction to Siemens' smart technologies. It is designed to boost productivity and enhance outcomes for certain clinical applications while increasing image quality and reducing dose. The GIGALIX X-ray tube concentrates high pulse power on small, square-shaped focal spots (flat emitter technology for all focal spots). This provides unprecedented image quality for confidence in challenging situations. The ceiling-mounted C-arm offers highly flexible positioning. The motorized rotation of the C-arm from a head-end position to a lateral position allows for free head access and full patient coverage without rotating the table. The patient table is fitted with a freely movable patient positioning tabletop. The as40HDR flat detector is optimized for the requirements of radiology. Digital acquisition technology and digital subtraction angiography with up to 7.5 f/s in 1k/12 bit matrix are available. The complete CARE+CLEAR package offers optimal image quality at the lowest reasonable dose. Live and reference images are displayed on two 19" flat screens in the exam room. In the control room live images are displayed on a third screen.
1	**Automap** Automatic stand positioning depending on the selected reference image and automatic reference image selection depending on the stand positioning.
1	**4P wireless footswitch inst. of cbl** Wireless footswitch connection

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Note: Wireless replaces the wired connection.

Head-end table tilting

1

Motorized tilt and stepping of the patient table in longitudinal direction for electrophysiological or peripheral examinations, for example, as well as for stabilizing a patient. Includes a power-assisted tabletop control module.

Notes:

Table tilting reduces the maximum patient weight to 200 kg. As before however, it is possible to install up to 40 kg of additional accessories.

Note: It is mandatory to provide UPS back up with this table option in order to comply with IEC 60601-2-43 CL. 201.15.101. Reason: In the event of power failure a neutral table position suitable for CPR must be reachable within 15 seconds. Please include a suitable UPS from Siemens as required or make sure any existing / planned UPS provision for your installation site will satisfy the requirement

narrow TT thin mat. ins. of std. TT

1

Narrow-shaped carbon fiber patient positioning tabletop with head-end recess, ideal for cardiological applications. Tabletop tapered in the thorax area for maximum freedom of C-arm angulation.

Matching the narrow tabletop, special-foam mattress, 4 cm, made of open-pore polyurethane material and a latex-free cover.

Note: The narrow patient positioning tabletop with the thin mattress replaces the wide tabletop, including mattress, described in the basic configuration.

Laser crosshairs

1

Laser crosshairs integrated in the cover of the flat detector and tableside operation for easier, quicker and dose-saving positioning of the patient (with biplane systems only plane A).

Fluoro Loop

1

Storage and review of dynamic fluoroscopic sequences (Fluoro Loop). This saves an additional acquisition and reduces dose. The maximum storable fluoroscopic time depends on the selected pulse rate, e.g. 34 s at 30 p/s, 68 s at 15 p/s.

PERISTEPPING / PERIVISION

1

Motorized stepping for real-time bolus chasing.
Gantry stepping with zeego and ceiling mounted systems, table stepping with floor mounted and biplane systems.

Peripheral digital angiography with stepping and online subtraction display.

Card acq. mode w/high speed

1

Fast acquisition module for DR and DSA as well as digital card acquisition technology with frame rates of 7.5, 10, 15 and 30 f/s, acquisition, display and storage in 1k matrix.

Vascular analysis

1

Vessel analysis with determination of degree of stenosis, distance measurement and calibration.

syngo interv. Onco. Engine Pro as40

1

A workstation for reconstruction, post-processing and handling of 3D information including specific applications for interventional oncology. The package includes the following functionalities: 3D high-contrast and CT-like soft-tissue imaging (syngo DynaCT), 3D functional imaging providing physiologic blood volume information (syngo DynaPBV Body), 3D roadmap for dynamic overlay of planning data and 3D volumes on live fluoroscopy, 3D/3D fusion functionality for integration of pre-interventional 3D datasets, Workflow support for embolization and needle guidance, extended visualization (e.g. DSA) and post-processing of 2D images or scenes on the XWP (Angio Viewer) incl. 2D functional imaging for visualization of blood flow characteristics (syngo iFlow) and side-by-side comparison of images or scenes (Scene Compare), in-room control for table-side operation of advanced

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applications, Expert-i functionality for remote operation of the XWP. Only for PURE systems, the package also includes: 3D Wizard for expert step-by-step guidance in 3D acquisition, Parallel patient processing capabilities, Fusion of pre-interventional 3D datasets based on 2 projections (2D/3D Fusion), Marking of points or lines on the 3D geometry or MPRs and overlay of these markings on live fluoroscopy.

1

Lower body radiation protection

This radiation shield protects the user from scattered radiation when standing at the table side. It can be attached to the accessory rails either on the right or on the left side of the patient positioning table.

It provides the user an additional accessory rail.

It includes a basic unit

(71.5 cm x 75 cm / 28.2" x 29.5" (l x w); 7.7 kg / 16.98 lb),

one lower body radiation protection pivot swivel element

(77 cm x 48 cm / 30.3" x 18.9" (l x w); 3.8 kg / 8.4 lb)

and three clip-on units

(57 cm / 22.4" x 33 cm / 12.99" (l x h), 2.2 kg / 4.85 lb;

27 cm / 10.6" x 33cm / 12.99", 0.9 kg / 1.98 lb and

27 cm / 10.6" x 25cm / 9.8", 1 kg / 2.2 lb)

with a lead of 0.5 mm / 0.02" Pb.

The maximum weight of the accessory rails is 40 kg (88.2 lb).

Intended only for use with Artis / ARTIS tables.

1

Moveable upper body rad. protection

This radiation shield protects the user from scattered radiation.

For room heights up to 290 cm / 114.2".

It includes a ceiling rail (4 m / 157.5"), a ceiling mounted and movable stand (80 cm or 57 cm / 31.5" or 22,4"), a support arm (75 cm x 90 cm / 29.5" x 35.4") and an acrylic glass.

The shield is made of acrylic glass with lead equivalent of 0.5 mm

(w x h: 61 cm x 76 cm / 24" x 29.9"), which can pivot and rotate around a fixed point with a range of 360 degrees.

The operation range is limited when used with Artis floor/biplane MN.

Max. weight: 18 kg / 39.68 lb.

1

LED Exam Light

Ceiling-mounted, flexible positionable examination light with focusable light system. It is fully integrated into the ceiling-installed radiation protection mounting unit.

- Luminance: 60,000 Lux for 100 cm / 39.4" distance
- Working distance: 70 to 140 cm / 27.6" to 55.1"
- Color rendering index Ra at 4500 Kelvin: 95
- Color temperature: 4,300 Kelvin
- Focusable light field: 14 to 25 cm / 5.5" to 9.8"
- Diameter of light head: 33 cm / 13"
- Number of LEDs: 19
- Total input power: 20 VA

1

VA kit Artis Q/Q.zen systems

Second set of system documentation (operator manual, etc.)

1

Large Display diagn. Protection

The high quality laminated glass protective screen protects the panel of the monitor against mechanical damage and fluid ingress on the front.

It is suited for clinical image evaluation.

Features:

The laminated glass enforces high mechanical strenght and resistivity against mechanical impact,

the special coating reduces reflections for a continuous image quality,

excellent spectral transmisison of at least 98%,

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can be added to existing Artis Large Display installations.

Weight: approx. 12kg (55") up to 16kg (60")

Note: Observe the maximum permissible load of the display suspension, a combination with other options mounted to the display suspension might be restricted.

1   Infusion bottle holder

This infusion bottle holder can be mounted at the accessory rail of the patient table. It holds up to 4 infusion bottles.

It includes an infusion bottle holder made of stainless steel with 4 retaining rings.

Length: 84 - 138 cm (21.6" - 54.3")

Weight: 1.3 kg (2.87 lb)

Intended only for use with Artis / ARTIS tables

1   Catheter bracket

This item can be positioned at the foot end of the patient table.

It is made of stainless steel and attached at the accessory rail at the foot end.

It includes a table extension.

Dimensions 53 cm / 20.9" x 65 cm / 25.6'' (w x l)

Maximum weight: 5 kg / 11.02 lb

Weight: 6.5 kg / 14.3 lb

Intended only for use with Artis / ARTIS tables.

1   Arm rest

Arm support used for the arm approach. Length: 1 m (39.4''). Slides underneath the patient mattress and is held in position by the patient's weight.

Made of radiolucent carbon fiber material which is easy to clean. It includes two additional support pads of two different heights (4 and 7 cm).

Length pad: 60 cm / 23.62''

Width: 9 to 20 cm / 3.54'' to 7.87''

Maximum weight: 5 kg (11.02 lb)

Weight (with pads): 2.1 kg / 4.63 lb

Intended only for use with Artis / ARTIS tables.

1   Arm holder (pair)

The patient's arms can be comfortably placed along the body using these two arm holders. They slide underneath the patient mattress and is held in position by the patient's weight.

It includes two pairs of arm holders of different length (540 mm / 690 mm - 21.2" / 27.2") and height (85 mm / 115 mm - 3.35'' / 4.53"), suitable both for thick and thin patient mattresses.

Weight small arm holder: each 0.65 kg / 1.43 lb

Weight large arm holder: each 0.95 kg / 2.09 lb.

Intended only for use with Artis / ARTIS tables.

1   Sec. operation in the control room

Interface for connecting the additional system control from the control room.

Rail profile for hanging control modules (e.g. the table module) in the control room.

Safety button for switching off all system functions from the control room.

1   Secondary Hand Switch Ctrl (C Room)

Additional hand switch for radiation release and additional control functions.

Qty	Item Description

1   **Secondary Footswitch Ctrl (C Room)**

Additional footswitch for radiation release including configurable control functions

1   **VOLCANO s5i cable set**

Cable set for operating the Volcano s5i ultrasound system incl. s5iz and s5iu (CORE-System). It contains all cables for connecting the components at the patient table to the s5i imaging system in the control room.

This cable set will already be integrated into the Artis table in the factory.

With this item, a display is delivered additionally for the examination room if an Artis Large Display was not ordered. If an Artis Large Display is ordered, the configuration includes a connection kit for the Artis Large Display instead of the 19" display.

1   **DICOM RIS-Modality Worklist**

Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Worklist).

1   **DICOM MPPS**

Feedback of examination status via DICOM MPPS (Modality Performed Procedure Step) to an external RIS/HIS patient management system.

Data such as the dose-area product can be transferred to the RIS.

1   **OEM recording system interface**

Cable connection to an OEM measurement system.

Holder for the ECG interface when using an OEM measurement system in the examination room.

Recording, storage, and display of an ECG lead. Displayed together with the image information on a single monitor.

1   **Injector conn. in the control room**

Interface for controlling the contrast medium injector in the control room.

Injectors can be offered by Siemens Healthcare Accessory Solutions

1   **Large Display large work area**

Preparation for the large color flat screen display on an extended arm for increased reach and working range. An additional

cantilever beam extends the radial coverage of the display by approximately 60 cm.

This extended suspension is installed on a ceiling-mounted carriage. The display holder is height-adjustable, longitudinally mobile and can swivel and rotate.

In case of a ceiling-mounted or biplane configuration the carriage operates in the same rails as the C-arm carriage, which

have been extended by 1.2 m for easy operation.

This item also includes cables for the examination room.

Note: The type of large display can be chosen with a separate position.

1   **Large Display video controller 18**

Large Display Video Controller 18 is the middle of three different video controller sizes. A maximum of 18 video signals can be connected and displayed simultaneously on the Large Display.

The Large Display video controller 18 receives various internal and external video signals for presentation to scale on the Large Display.

Up to 18 external and internal video sources can be connected (max. 14 DVI-D and 4 analog (VGA) channels).

Qty	Item Description

1   **Display kit BOOM 2**

Note:

For safety reasons, the third-party display holders must meet the following criteria:

To prevent injuring the patient when positioning the display holder above the table, it has to be possible to manually move the third-party display holder vertically with a force of up to 85 N.

In the event that the angiography system comes into contact with the third-party display holder, it must be possible to push away the holder in a horizontal direction with a force less than 50 N. Otherwise, there is a risk of crush injury to persons or material damage.

Please note that components supplied by Siemens (displays, cables) can be installed on an existing third-party display holder only by the manufacturer of that holder.

1   **2 19" b/w displays (live+ref)**

Two 19" high-contrast displays for live and reference image display in the examination room.

1   **LD High Contrast panel size 55"**

Large color flat screen display (including cables) for the examination room, with a panel diagonal of 55". This large display version provides an excelling clinical image quality due to it's new IPS panel technology.

1   **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.

1   **Follow-up training 32 hrs**

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.

1   **Follow-up training 12 hrs**

Up to (12) 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.

2   **Additional onsite training 16 hours**

Up to (16) 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.

2   **Additional onsite training 24 hours**

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.

2   **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.

Qty	Item Description
1	**Mark 7 Arterion, Table Mount Injector**

The Arterion Mark 7 Table contrast medium injector allows for the remote installation of the system power supply and installation of the injector head onto a table bracket.

The injector system includes:
Power supply and injector head with corresponding cabling
An adjustable height table bracket for the injector head
A desk mounted user control console with large touch screen

Functions
Pressure limitation:
for 150 ml syringes 689 to 8273 kPa,
corresponds to 100 to 1200 psi. .

Flow rates for 150 ml syringes:
0.1 to 45 ml/s in increments of 0.1 ml/s
0.1 to 59.9 ml/min in increments of 0.1 ml/min
rise/fall: 0 to 9.9 s in increments of 0.1 seconds

Release delay for injection or radiation:
0 to 99.9 s in increments of 0.1 s.

Adjustable volume for 150 ml syringes:
1 ml to the max. syringe capacity in increments of 1 ml.

Fill rate:
Variable syringe filling speed 1-20ml/s.

Injection protocols:
Up to 40 injection protocols possible.

Parameters currently displayed on the touch screen display and on the head display:
Injection speed
Injection volume
Remaining volume
Injection duration
Applied pressure

Contrast medium heating:
Nominal 35°C (95°F)+-5°C (9°F)

Injection data memory
Up to 50 injection data items stored

Included in the scope of delivery
Injector standard configuration 150 ml
SIEMENS interface cable
Operator Manual
Service manual (English).

Power supply

Qty	Item Description
	200 V to 250 V; 50/60 Hz.

1   **Arterion Rack Mnt Install**

1   **Eaton Powerware 9355 15 kVA UPS**

Includes UPS, battery, maintenance bypass panel, and one year on-site parts and labor coverage (24x7) by Eaton Powerware. This UPS is recommended when protection and uninterruptible power is required for the Artis' C-arm and table. Emergency fluoroscopy is not available with this UPS. If emergency fluoroscopy is required, the 9390 - 160 kVA UPS is recommended for the full system. One UPS per lab.

Additional seismic brackets are required to make this system OSHPD approved.

1   **Vitalinq Model 94A-07**

Vitalinq Model 94A-07 Communication System

A combination intercom and music system designed for the active acoustic environments typical of catheterization, electrophysiology and vascular and interventional radiology labs.

The Vitalinq system will include:

1 - 94A-07 Communication Console
1 - monitor microphone
1 - desk microphone
1 - corded headset
1 - headset foot switch
4 - stereo speakers
2 - communication speakers
Operations and Owner's Manual
All cables necessary to complete installation
Installation guidance and 24/7 customer support via an 800 telephone number

All equipment is designed in a modular manner and connected by supplied standard ethernet cables which have pre-installed connectors. This allows for quick and easy installation, or if necessary over the life of the system, component replacement. Customer or end user shall be responsible for use and maintenance.

Installation and on-site service is not included.

1   **Vitalinq MC-07 Console Extender**

Vitalinq MC-07 Console Extender

A device which connects to the Vitalinq 94A-07 that can be located away from the 94A-07 console (such as in another room) and to which an additional headset and/or desk microphone can be connected for two-way communication with the procedure room.

1   **Vitalinq wireless headset**

Wireless Headset

A high quality wireless headset with adaptor cord which can be used in lieu of a corded headset with either the Vitalinq 94A-07 console or the Vitalinq MC-07 Console Extender.

1   **Standard Rigging zee SP GOV**

1   **Additional Rigging AXA**

1   **Competitive Conversion Replace GE**

OPTIONS

Qty	Item Description
1	**Wide tabletop with thin mattress**

Wide tabletop with thin mattress

This tabletop has a rectangular shape.

It includes a carbon fiber patient tabletop and a set of three Velcro body straps for securing and compressing the patient.

Maximum weight: 290 kg / 639.3 lb.

Maximum weight in connection with tilting table: 200 kg (440.93 lb).

Weight: 12 kg / 26.5 lb.

Length: 2278 ± 1 mm / 89.7 ± 0.04".

Width: 525 ± 0.5 mm.

Matching this tabletop a mattress and a mattress cover is included. This mattress adapts to the individual body shape under the influence of body weight and heat.

It is made of open-pore polyurethane material.

Mattress thickness: 40 ± 5 mm (1.6 ± 0.2").

Mattress weight: 5 kg (11 lb).