Replace Two Cardiac Cath Labs
Project #6092 HT

Mercy Hospital Jefferson
Festus, MO

March 2024

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Certificate of Need Program

EQUIPMENT REPLACEMENT APPLICATION

Applicant's Completeness Checklist and Table of Contents

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Project Description: Mercy Hospital Jefferson intends to replace two cardiac cath labs

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(If replacement equipment was not previously approved, also complete Divider IV below.)

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✔	18		4. Document responsiveness to the needs of the medically indigent.

Divider I

Application Summary

DIVIDER I – Application Summary

1. Application Identification and Certification (Form MO 580-1861)

The Application Identification and Certification form is included in Divider I – Attachments

2. Representative Registration (Form MO 580-1869)

Representative Registration form for Dan Eckenfels is included in Divider I – Attachments

3. Proposed Project Budget (Form MO 580-1863)

The proposed budget form is included in Divider I – Attachments

Attachments

Divider I
Application Summary

Certificate of Need Program

APPLICANT IDENTIFICATION AND CERTIFICATION

*The information provided must match the **Letter of Intent** for this project, without exception.*

1. Project Location *(Attach additional pages as necessary to identify multiple project sites.)*

Title of Proposed Project	Project Number
Replace two cardiac catheterization labs	6092HT
Project Address *(Street/City/State/Zip Code)*	**County**
1400 Highway 61 South Festus, MO 63028	Jefferson County

2. Applicant Identification *(Information must agree with previously submitted Letter of Intent.)*

List All Owner(s): *(List corporate entity.)*	Address (Street/City/State/Zip Code)	Telephone Number
Mercy Health East Communities	615 S. New Ballas Road, St. Louis, MO 63141	314-251-1952

List All Operator(s): *(List entity to be licensed or certified.)*	Address (Street/City/State/Zip Code)	Telephone Number
Mercy Hospital Jefferson	1400 Highway 61 South Festus, MO 63028	636-933-1002

3. Ownership *(Check applicable category.)*

☑ Nonprofit Corporation	☐ Individual	☐ City	☐ District
☐ Partnership	☐ Corporation	☐ County	☐ Other_____

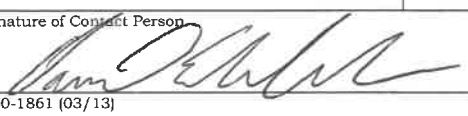
4. Certification

In submitting this project application, the applicant understands that:

(A) The review will be made as to the community need for the proposed beds or equipment in this application;
(B) In determining community need, the Missouri Health Facilities Review Committee (Committee) will consider all similar beds or equipment within the service area;
(C) The issuance of a Certificate of Need (CON) by the Committee depends on conformance with its Rules and CON statute;
(D) A CON shall be subject to forfeiture for failure to incur an expenditure on any approved project six (6) months after the date of issuance, unless obligated or extended by the Committee for an additional six (6) months:
(E) Notification will be provided to the CON Program staff if and when the project is abandoned; and
(F) A CON, if issued, may not be transferred, relocated, or modified except with the consent of the Committee.

We certify the information and date in this application as accurate to the best of our knowledge and belief by our representative's signature below:

5. Authorized Contact Person *(Attach a Contact Person Correction Form if different from the Letter of Intent.)*

Name of Contact Person		Title
Dan Eckenfels		President
Telephone Number	**Fax Number**	**E-mail Address**
314-525-1483		daniel.eckenfels@mercy.net
Signature of Contact Person		**Date of Signature**
		3-8-2024

MO 580-1861 (03/13)

Certificate of Need Program

REPRESENTATIVE REGISTRATION

*(A registration form must be completed for **each** project presented.)*

Project Name	Number
Replace two cardiac catheterization labs	6092 HT

(Please type or print legibly.)

Name of Representative	Title
Dan Eckenfels	President

Firm/Corporation/Association of Representative (may be different from below, e.g., law firm, consultant, other)	Telephone Number
Mercy	636-933-1107

Address (Street/City/State/Zip Code)

1400 Highway 61 South Festus, MO 63028

Who's interests are being represented?
(If more than one, submit a separate Representative Registration Form for each.)

Name of Individual/Agency/Corporation/Organization being Represented	Telephone Number
Mercy Health East Communities-Mercy Hospital Jefferson	636-933-1002

Address (Street/City/State/Zip Code)

1400 Highway 61 South Festus, MO 63028

Check one. Do you:

- ☑ Support
- ☐ Oppose
- ☐ Neutral

Relationship to Project:

- ☐ None
- ☑ Employee
- ☐ Legal Counsel
- ☐ Consultant
- ☐ Lobbyist
- ☐ Other (explain):

Other Information:

I attest that to the best of my belief and knowledge the testimony and information presented by me is truthful, represents factual information, and is in compliance with §197.326.1 RSMo which says: *Any person who is paid either as part of his normal employment or as a lobbyist to support or oppose any project before the health facilities review committee shall register as a lobbyist pursuant to chapter 105 RSMo, and shall also register with the staff of the health facilities review committee for every project in which such person has an interest and indicate whether such person supports or opposes the named project. The registration shall also include the names and addresses of any person, firm, corporation or association that the person registering represents in relation to the named project. Any person violating the provisions of this subsection shall be subject to the penalties specified in § 105.478, RSMo.*

Original Signature	Date
Daniel Eckenfels	3-8-2024

MO 580-1869 (11/01)

Certificate of Need Program

PROPOSED PROJECT BUDGET

Description	**Dollars**
COSTS:*	*(Fill in every line, even if the amount is "$0".)*
1. New Construction Costs ***	
2. Renovation Costs ***	
3. Subtotal Construction Costs (#1 plus #2)	$0
4. Architectural/Engineering Fees	
5. Other Equipment (not in construction contract)	
6. Major Medical Equipment	$2,722,520
7. Land Acquisition Costs ***	
8. Consultants' Fees/Legal Fees ***	
9. Interest During Construction (net of interest earned) ***	
10. Other Costs ***	
11. Subtotal Non-Construction Costs (sum of #4 through #10	$2,722,520
12. Total Project Development Costs (#3 plus #11)	$2,722,520 **
FINANCING:	
13. Unrestricted Funds	$2,722,520
14. Bonds	
15. Loans	
16. Other Methods (specify)	
17. Total Project Financing (sum of #13 through #16)	$2,722,520 **
18. New Construction Total Square Footage	
19. New Construction Costs Per Square Foot *****	
20. Renovated Space Total Square Footage	
21. Renovated Space Costs Per Square Foot ******	

* *Attach additional page(s) detailing how each line item was determined, including all methods and assumptions used. Provide documentation of all major costs.*

** *These amounts should be the same.*

*** *Capitalizable items to be recognized as capital expenditures after project completion.*

**** *Include as Other Costs the following: other costs of financing; the value of existing lands, buildings and equipment not previously used for health care services, such as a renovated house converted to residential care, determined by original cost, fair market value, or appraised value; or the fair market value of any leased equipment or building, or the cost of beds to be purchased.*

***** *Divide new construction costs by total new construction square footage.*

****** *Divide renovation costs by total renovation square footage.*

Divider II

Proposal Description

DIVIDER II – Proposal Description

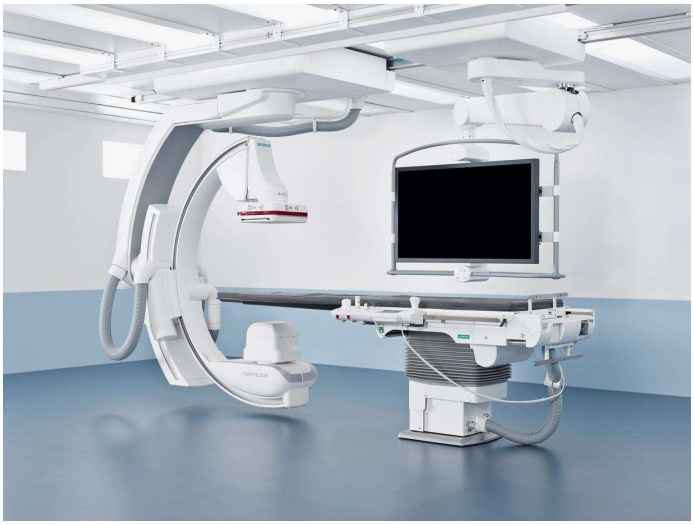
1. **Provide a complete detailed project description, CON project number of the existing equipment (if prev. CON approved) and include the type/brand of both the existing equipment and the replacement equipment.**

   Mercy Hospital Jefferson intends to replace its existing Philips Allura Xper FD10 and FD20 systems located in cardiac catheterization laboratory (CCL) rooms 1 and 2. The existing equipment was not previously approved by the committee.

   The existing equipment reached the end of product life effective 12/31/2021. Philips no longer provides full maintenance and support services after end of product life. Both of the existing cardiac cath lab systems will be decommissioned.

   The new equipment is a Siemens Artis Q.zen. This new equipment will provide the ability to complete more accurate procedures, at lower levels of radiation exposure, and decrease patient wait times for procedures.

   Mercy Hospital Jefferson serves patients in four counties south of St. Louis: Jefferson, St. Francois, Ste. Genevieve, and Washington.



Siemens Artis Q.zen

DIVIDER II – Proposal Description (continued)

2. Provide a listing with itemized costs of the medical equipment to be acquired and bid quotes.

The proposed project budget includes:

Major Medical Equipment:	
Siemens Artis Q.zen	$2,167,182
Acist CVI Injectors	268,098
Philips Nexcimer Laser	195,500
Biotronik Zero Gravity	93,240
Total Project Cost	2,722,520

Quotations are included after Divider IV

3. Provide a timeline of events for the project, from CON issuance through project completion.

- Equipment Delivery: August 2024
- Installation: August 2024
- Go Live: September 2024 (or immediately following equipment installation)

Divider III

Service Specific Criteria & Standards

DIVIDER III – Service Specific Criteria & Standards

1. Describe the financial rationale for the proposed replacement equipment.

Although the rationale for the replacement is not financial, the current systems experience frequent maintenance issues and down time. The current Philips Xper equipment in Room 1 is no longer serviceable and not in use. The current Philips Xper equipment in Room 2 no longer has parts or available maintenance support should it go down again. Philips is no longer provides full maintenance and support services.

Both cardiac cath labs are vital to managing patient volumes and throughput. This equipment requires replacement to continue to provide comprehensive care to our community.

2. Document if the existing equipment has exceeded its useful life.

The useful life for a cardiac catheterization equipment is 5 years according to the American Hospital Association. Mercy's current cardiac cath lab systems have been in service for 23 years and have exceeded their useful life.

3. Describe the effect the replacement unit would have on quality of care.

Replacing this piece of equipment would allow Mercy Hospital Jefferson to continue to provide timely care to the community at the same level previously provided.

The proposed Siemens Artis Q.zen systems' ultra-low dose imaging reduces radiation for both patients and staff, especially in long-lasting procedures with fluoroscopy guidance.

4. Document if the existing equipment is in constant need of repair.

The current Philips Xper equipment in Room 1 is no longer serviceable and not in use. The current Philips Xper equipment in Room 2 has been deemed unrepairable in the future since parts and maintenance support are no longer available should it go down again.

5. Document if the lease on the current unit has expired.

Not applicable. The current unit is owned by the applicant.

DIVIDER III – Service Specific Criteria & Standards (continued)

6. Describe the technological advances provided by the new unit.

New advances on the replacement systems include:

- The Artis Q.zen product line uses a new detector technology based on crystalline silicon, setting new standards for low-dose fluoroscopy in interventional imaging. The GIGALIX X-ray tube concentrates high pulse power on small, square-shaped focal spots (flat emitter technology for all focal spots).
- The CLEARstent imaging function allows an improved display of fine stent structures, i.e., the grid of inflated stents. CLEARstent is a post-processed stent enhancement and may be used also on previously acquired images.

7. Describe how patient satisfaction would be improved.

The availability of two fully functional cardiac cath lab rooms will allow faster scheduling for elective procedures and the risk of equipment failure and related scheduling challenges is minimized.

8. Describe how patient outcomes would be improved.

The new systems will reduce procedure times and radiation exposure for patients and staff. The systems will help speed up the final outcomes, improve convenience and allow for increased patient throughput and processing.

9. Describe what impact the new unit would have on utilization.

The new technology offered by the Siemens Artis Q.zen systems will improve utilization. Longer interventions such as peripheral procedures will be performed more efficiently leading to decreased radiation exposure for patients and staff.

DIVIDER III – Service Specific Criteria & Standards (continued)

10. Describe any new capabilities that the new unit would provide.

The Artis Q.zen system(s) provide:

- The new X-ray tube with flat emitter technology which will help to identify small vessels up to 70% better than conventional filament X-ray tube technology. It combines the x-ray source with a new detector technology that supports interventional imaging in ultra-low-dose ranges.
- Freestyle access which optimizes the workflow when using ultrasound guidance in the interventional suite.
- The first angiography systems to feature IVUSmap, integrating intravascular ultrasound (IVUS) with angiographic images. Simultaneous views of the vessels interior wall via IVUS with precise location on the angio image, IVUSmap efficiently supports doctors in their diagnostics and stent placement.
- CLEARstent Live which enhances the visibility of stents in real-time during therapy whilst simultaneously stabilizing the image resulting in a clear image of the intervention without time lag.

11. By what percent will this replacement increase patient charges.

The applicant does not expect this project to impact patient charges directly. Charges are based on market conditions and are the result of payment policy established by Medicare and Medicaid, as well as agreements with commercial payers. Such charges are not directly affected by specific equipment replacements.

Divider IV

Financial Feasibility Review Criteria and Standards

DIVIDER IV – Financial Feasibility Review Criteria and Standards

1. Document that sufficient financing is available by providing a letter from a financial institution or an auditor's statement indicating that sufficient funds are available.

Ernst & Young LLP conducted the external audit for Mercy Health, the applicant's parent organization, for fiscal year ending June 30, 2023. The consolidated balance sheet (included in Divider IV – Attachments) verifies the ability of the applicant to fund this project.

2. Provide Service-Specific Revenues and Expenses (Form MO 580-1865) projected through three (3) FULL years beyond project completion.

Mercy's fiscal year runs from July 1-June 30 each year.

The Service-Specific Revenues and Expenses Form for the projected periods are included in Divider IV – Attachments.

3. Document how patient charges are derived.

The applicant does not expect this project to impact patient charges directly. Charges are based on market conditions and are the result of payment policy established by Medicare and Medicaid, as well as negotiations with commercial payers. Such charges are not directly affected by new equipment or replacements.

4. Document responsiveness to the needs of the medically indigent.

Mercy Hospital Jefferson is a Catholic, not-for-profit organization. Collection policies are sensitive to those patients who do not have the ability to meet full financial obligations. Mercy Hospital Jefferson provides financial assistance to patients based on need as determined by the Federal Poverty Guidelines. Patients who qualify for financial assistance will not be required to pay more than amounts normally billed to individuals who have insurance. The amount billed is a discounted percentage of the amount due based on federal poverty guidelines.

In fiscal year 2023, Mercy Hospital Jefferson provided $3.3 million in unreimbursed charity care (based on the cost of providing services) and $20.3 million in unreimbursed care for Medicaid patients.

Divider IV

Financial Feasibility Review
Criteria & Standards

Attachments

Mercy Health

Consolidated Balance Sheets

(In Thousands)

	June 30	
	2023	**2022**
Assets		
Current assets:		
Cash and cash equivalents	**$ 529,638**	$ 766,187
Accounts receivable, net	**830,562**	847,319
Inventories	**133,162**	131,315
Short-term investments	**46,883**	46,421
Other current assets	**198,850**	131,922
Total current assets	**1,739,095**	1,923,164
Investments	**3,392,083**	3,366,968
Property and equipment, net	**3,455,079**	3,362,960
Other assets	**895,036**	886,149
Total assets	**$ 9,481,293**	$ 9,539,241
Liabilities and net assets		
Current liabilities:		
Current maturities of long-term obligations	**$ 29,558**	$ 32,709
Accounts payable	**445,718**	459,449
Accrued payroll and related liabilities	**502,586**	499,880
Accrued liabilities and other	**440,021**	628,273
Total current liabilities	**1,417,883**	1,620,311
Insurance reserves and other liabilities	**669,710**	650,023
Pension liabilities	**231,654**	269,048
Long-term obligations, less current maturities	**2,173,361**	2,198,157
Total liabilities	**4,492,608**	4,737,539
Net assets:		
Without donor restrictions	**4,806,304**	4,626,359
With donor restrictions	**182,381**	175,343
Total net assets	**4,988,685**	4,801,702
Total liabilities and net assets	**$ 9,481,293**	$ 9,539,241

See accompanying notes.

Certificate of Need Program

SERVICE-SPECIFIC REVENUES AND EXPENSES

Project Title: Mercy Jefferson-Replace two cardiac cath labs **Project #:** 6092HT

Historical Financial Data for Latest Three Full Years plus Projections Through Three Full Years Beyond Project Completion

Use an individual form for each affected service with a sufficient number of copies of this form to cover entire period, and fill in the years in the appropriate blanks.	Year FY2021	FY2022	FY2023
Amount of Utilization:*	1,697	1,576	1,627
Revenue:			
Average Charge**	$31,942	$35,238	$37,132
Gross Revenue	$54,205,574	$55,535,088	$60,413,764
Revenue Deductions	42,319,537	43,593,541	46,780,995
Operating Revenue	11,886,037	11,941,547	13,632,769
Other Revenue	0	0	0
TOTAL REVENUE	**$11,886,037**	**$11,941,547**	**$13,632,769**
Expenses:			
Direct Expenses			
Salaries	1,095,784	1,147,892	1,193,144
Fees	143,201	141,864	58,652
Supplies	3,854,441	3,558,558	4,665,367
Other	25,507	28,868	25,089
TOTAL DIRECT	$5,118,933	$4,877,182	$5,942,253
Indirect Expenses			
Depreciation	36,187	34,261	35,777
Interest***	0	0	0
Rent/Lease	0	0	0
Overhead****	726,290	728,693	565,308
TOTAL INDIRECT	$762,477	$762,955	$601,085
TOTAL EXPENSES	**$5,881,410**	**$5,640,137**	**$6,543,338**
NET INCOME (LOSS):	**$6,004,626**	**$6,301,410**	**$7,089,432**

*Utilization will be measured in "patient days" for licensed beds, "procedures" for equipment, or other appropriate units of measure specific to the service affected.

**Indicate how the average charge/procedure was calculated.

***Only on long term debt, not construction.

****Indicate how overhead was calculated.

Certificate of Need Program

SERVICE-SPECIFIC REVENUES AND EXPENSES

Project Title: Mercy Jefferson-Replace two cardiac cath labs **Project #:** 6092HT

Historical Financial Data for Latest Three Full Years plus Projections Through Three Full Years Beyond Project Completion

Use an individual form for each affected service with a sufficient number of copies of this form to cover entire period, and fill in the years in the appropriate blanks.

	Year 1	Year 2	Year 3
Amount of Utilization:*	1,706	1,714	1,714
Revenue:			
Average Charge**	$39,052	$40,191	$41,393
Gross Revenue	$66,622,712	$68,887,374	$70,947,602
Revenue Deductions	51,869,924	53,781,466	55,533,653
Operating Revenue	14,752,788	15,105,908	15,413,949
Other Revenue	0	0	0
TOTAL REVENUE	**$14,752,788**	**$15,105,908**	**$15,413,949**
Expenses:			
Direct Expenses			
Salaries	1,307,706	1,345,950	1,380,168
Fees	65,238	67,505	69,563
Supplies	5,164,781	5,341,900	5,504,441
Other	27,906	28,876	29,756
TOTAL DIRECT	$6,565,632	$6,784,232	$6,983,928
Indirect Expenses			
Depreciation	580,281	580,281	580,281
Interest***	0	0	0
Rent/Lease	0	0	0
Overhead****	611,828	626,656	639,656
TOTAL INDIRECT	$1,192,109	$1,206,937	$1,219,937
TOTAL EXPENSES	**$7,757,741**	**$7,991,169**	**$8,203,864**
NET INCOME (LOSS):	**$6,995,047**	**$7,114,739**	**$7,210,084**

*Utilization will be measured in "patient days" for licensed beds, "procedures" for equipment, or other appropriate units of measure specific to the service affected.

**Indicate how the average charge/procedure was calculated.

***Only on long term debt, not construction.

****Indicate how overhead was calculated.

Attachments

Vendor Quotes

Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard, Malvern, PA 19355

SIEMENS REPRESENTATIVE
Douglas Sohn - +1 (314) 703-0992
douglas.sohn@siemens-healthineers.com

Customer Number: 0000007145

Date: 07/25/2023

MERCY HOSPITAL JEFFERSON
1400 US HIGHWAY 61
FESTUS, MO 63028

Siemens Medical Solutions USA, Inc. is pleased to submit the following quotation for the products and services described herein at the stated prices and terms, subject to your acceptance of the terms and conditions on the face and back hereof, and on any attachment hereto.

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Contract Total: $ 1,135,283
(total does not include any Optional or Alternate components which may be selected)

Proposal valid until 09/30/2023

Notes for Quote Nr CPQ-472723 :

Estimated Delivery Date: 12/15/2023

Estimated delivery date is subject to change based upon factory lead times, acceptance date of this quote, customer site readiness, and other factors. A Siemens representative will contact you regarding the final delivery date.

This proposal includes the trade-in of equipment referenced in Trade Sheet Project #2022-3426. Existing system must be released 14 days post turnover.

This proposal includes CPQ-472723, CPQ-756544 and CPQ-699362.

This is a CONFIDENTIAL, one-time multi-modality offer which may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is only valid if firm, non-contingent orders for quote #s CPQ-472723, CPQ-507694, CPQ-756544, CPQ-699362 and CPQ-699364 and are placed with Siemens by 09/30/2023. This date supersedes any other validity date indicated in the proposal.

This quote is based upon standard delivery terms and conditions (e.g., standard work hours, first floor delivery,

etc.), basic rigging, mechanical installation and calibration. Siemens Medical Solutions USA, Inc., Project Management shall perform a site-specific assessment to ascertain any variations that are out of scope and not covered by the standard terms (examples such as, but not limited to: larger crane, nonstandard work hours, removal of existing equipment, etc.). Any noted variations identified by Siemens Project Management shall remain the responsibility of the customer and will be subject to additional fees.

Notes for Quote Nr CPQ-756544 :

Estimated Delivery Date: 10/05/2023

Estimated delivery date is subject to change based upon factory lead times, acceptance date of this quote, customer site readiness, and other factors. A Siemens representative will contact you regarding the final delivery date.

This proposal includes CPQ-472723, CPQ-756544 and CPQ-699362.

This is a CONFIDENTIAL, one-time multi-modality offer which may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is only valid if firm, non-contingent orders for quote #s CPQ-472723, CPQ-507694, CPQ-756544, CPQ-699362 and CPQ-699364 and are placed with Siemens by 09/30/2023. This date supersedes any other validity date indicated in the proposal.

Notes for Quote Nr CPQ-699362 :

Estimated Delivery Date: 12/15/2023

Estimated delivery date is subject to change based upon factory lead times, acceptance date of this quote, customer site readiness, and other factors. A Siemens representative will contact you regarding the final delivery date.

This proposal includes CPQ-472723, CPQ-756544 and CPQ-699362.

This is a CONFIDENTIAL, one-time multi-modality offer which may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is only valid if firm, non-contingent orders for quote #s CPQ-472723, CPQ-507694, CPQ-756544, CPQ-699362 and CPQ-699364 and are placed with Siemens by 09/30/2023. This date supersedes any other validity date indicated in the proposal.
Accepted and Agreed to by:

Siemens Medical Solutions USA, Inc.		**MERCY HOSPITAL JEFFERSON**	
By (sign):	_____	By (sign):	_____
Name:	Douglas Sohn	Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

By signing below, signor certifies that no modifications or additions have been made to the Quotation. Any such modifications or additions will be void.

By (sign): _____

Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard, Malvern, PA 19355

SIEMENS REPRESENTATIVE
Douglas Sohn - +1 (314) 703-0992
douglas.sohn@siemens-healthineers.com

Quote Nr:	**CPQ-472723 Rev. 4**
Terms of Payment:	**00% Down, 90% Delivery, 10% Installation** **Free On Board:Destination**
Purchasing Agreement:	HEALTHTRUST PURCHASING GRP HEALTHTRUST PURCHASING GRP terms and conditions apply to Quote Nr CPQ-472723 Customer certifies, and Siemens relies upon such certification, that : (a) HPG-79002 IR & ANGIO is the sole GPO for the purchases described in this Quotation, and (b) the person signing this Quotation is fully authorized under the Customer's policies to choose and indicate for Customer such appropriate GPO.

Artis Q.zen ceil. Combo Card/Rad

All items listed below are included for this system: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price
1	14434277	**Artis Q.zen ceil. Combo Card/Rad** The Artis Q.zen product line uses a new detector technology based on crystalline silicon, setting new standards for low-dose fluoroscopy in interventional imaging. The GIGALIX X-ray tube concentrates high pulse power on small, square-shaped focal spots (flat emitter technology for all focal spots). The Artis Q.zen ceiling for interventional cardiology and radiology now features PURE®. 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 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 mid-size zen30HDR detector enables ultra-low dose imaging. Frame rates up to 30 f/s and functions for displaying and storing ECG curves are included. Digital acquisition technology and digital subtraction angiography with up to 7.5 f/s in 1k matrix are available. With new computer hardware and smart algorithms CLEAR MAX offers maximized image quality. 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.	$ 709,506
1	14432948	**Automap** Automatic stand positioning depending on the selected reference image and automatic reference image selection depending on the stand positioning.	$ 1,180

1	14432939	**2nd 4 pedal wireless footswitch** Additional 4-pedal footswitch for release of fluoroscopy, exposure, and table brake, as well as a configurable additional function. Wireless connection via radio communication.	$ 3,737
1	14434142	**narrow TT thick mat. ins of std. TT** 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, 7 cm, made of open-pore polyurethane material and a latex-free cover. Note: The narrow patient positioning tabletop with the thick mattress replaces the narrow or wide tabletop with the thin mattress described in the basic configuration.	$ 0
1	14432947	**Fluoro Loop** Storage and review of dynamic fluoroscopic sequences. This saves an additional acquisition and helps to reduce dose. The maximum storable fluoroscopic time is limited by the maximum DICOM file size of 4 Gbyte.	$ 7,825
1	14434169	**CLEARstent Live** CLEARstent Live is a real-time stent enhancement tool and provides a stabilized view of the moving stent which is displayed on the Assist/Reference Monitor. CLEARstent Live allows real-time verification of stent positioning while moving the device. This enables the physician to precisely position the stent in relation to the anatomy of the heart and stents that already have been implanted. Contains both CLEARstent Live license and CLEARstent license. The CLEARstent imaging function allows an improved display of fine stent structures, i.e. the grid of inflated stents. CLEARstent is a post-processed stent enhancement and may be used also on previously acquired images. Using the CLEARstent function special reference images from any scene or fluoroscopy scene acquired natively will be generated. Composite images are created by averaging several frames of a scene and by considering the alignment of balloon markers. If an ECG signal is available, the heart phase will also be considered.	$ 8,250
1	14432943	**Vascular analysis** Vessel analysis with determination of degree of stenosis, distance measurement and calibration.	$ 4,594
1	14432942	**LV Analysis** Analysis of the left ventricular function of the heart.	$ 7,367
1	14432953	**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 (l x w) - 71.5 cm x 75 cm / 28.2" x 29.5"; 7.7 kg / 16.98 lbs One lower body radiation protection pivot swivel element (l x w): - 77 cm x 48 cm / 30.3" x 18.9"; 3.8 kg / 8.4 lbs Three clip-on units (l x h) - 57 cm / 22.4" x 33 cm / 12.99"; 2.2 kg / 4.85 lbs - 27 cm / 10.6" x 33cm / 12.99"; 0.9 kg / 1.98 lbs - 27 cm / 10.6" x 25cm / 9.8"; 1 kg / 2.2 lbs with a lead of 0.5 mm / 0.02" Pb	$ 4,197

		The maximum weight of the accessory rails is 40 kg (88.2 lbs) Intended only for use with Artis / ARTIS tables.	
1	14432952	**syngo Security Package (SW lic.)** SW extension providing enhanced security features including user management and audit trail functionality.	$ 2,750
1	14440418	**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. Intended only for use with Artis / ARTIS tables.	$ 265
1	14440419	**Cable clips ECG** Cable clips for securing the ECG cable to the patient tabletop. It includes 10 cable clips. Intended only for use with Artis / ARTIS tables	$ 31
1	14440459	**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 lbs.) Weight (with pads): 2.1 kg / 4.63 lbs. Intended only for use with Artis / ARTIS tables.	$ 1,047
1	14440460	**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. Intended only for use with Artis / ARTIS tables.	$ 385
1	14434231	**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.	$ 3,126
1	14440510	**Secondary Hand Switch Ctrl (C Room)** Additional hand switch for radiation release and additional control functions.	$ 587
1	14434220	**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.	$ 7,487
1	14432950	**DICOM RIS-Modality Worklist** Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Worklist).	$ 701

1	14434201	**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.	$ 1,109
1	14434176	**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).	$ 27,456
1	14440573	**Add 19" display for LD (rear mount)** 19" TFT display including 36 m cable with DVI-D connection and transceiver for display installation on the rear of the DCS in combination with the Large Display.	$ 4,530
1	14443012	**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 its new IPS panel technology.	$ 0
1	14465217	**Large Display diagn. protection** 55" laminated glass protective screen for the monitor panel.	$ 4,940
1	14455598	**Artis Freestyle Access cable kit** Preparation for mounting, connection and display of the wireless “ACUSON Freestyle Elite with Artis Access” ultrasound system on the Large Display of the Artis system. Artis Freestyle Access optimizes the workflow when using ultrasound guidance in the interventional suite. It provides a zero-cables, zero footprint, fully connected solution for ultrasound guidance in the interventional suite.	$ 2,013
1	14434174	**1st Large Display w/o holder** Preparation for a primary large color flat screen display installed on a third-party display holder for the examination room. Note: For safety reasons, third-party display holders in combination with large display 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. Note: If a large display is selected, the Artis basic configuration includes a connection kit for the large display instead of the displays for the examination room. The type of large display can be chosen with a separate position.	$ 44,387
1	14434188	**Artis Cockpit - 1 console**	$ 23,147

		The Artis Cockpit enables the operation of up to 9 systems and the presentation of up to 9 video signals on a high-resolution High Bright 30" display. The connected systems are operated via keyboard and mouse. Attention: If a Cockpit is selected, the Artis basic configuration includes a connection kit for the Cockpit instead of the display for the control room.	
1	AXA_RIG_QSP_STD	**Standard Rigging Q Q.Zen SP**	$ 14,040
1	E93PM150UAX	**Eaton 93PM-150 kW UPS** Complete system backup without interruption. One UPS per lab. Includes the following: Eaton 93PM UPS Electronics Cabinet w/integrated maintenance bypass sidecar Eaton 93PM Single Battery Cabinet System (Full load back-up time @ 150kW of 7.1 minutes.) Eaton 93PM Remote Monitoring Panel Network Card Eaton 24x7 start-up One year (24x7) warranty through Eaton Corp. Not approved for sites that require OSHPD. Shipment is to customer's dock. Customer is responsible for logistics from the dock to inside location.	$ 59,185
1	AXA_IRCA_FL_BD_LV1	**Essential Edu Package (AXA)(IRCA)(Floor)** This Essential Interventional Radiology & interventional Cardiology education package for floor-mounted systems includes: - Dedicated Siemens Education Consultant: partnering with your Education Coordinator to create a blended curriculum adapted to your facility's individual needs. - Blended Learning Curriculum: a combination of at least two (2) 28-hour onsite trainings, digital (immersive, online & virtual) education, and instructor-led classroom elevated by ASRT accreditation. Designed for your team to maximize their confidence and competence on your system. - On-site Customization: optimizing system hardware, software, workflow and operating safety consistent with the cleared use of the system. - Ongoing Educational Case Support: ability to request onsite case-support for advanced procedures. The education will be delivered in four (4) phases: 1) Pre-Installation: Customized Education Plan (CEP) tailored to your sites experience level and case types. Training needs assessed on hardware and software options, and ongoing procedure support. 2) Pre-Go Live: blend of virtual courses & instructor-led classroom training. 3) Go Live: minimum of two (2) weeks of onsite clinical applications sessions, guiding staff members, reinforcing concepts and practices acquired during pre-training. 4) Warranty /Post-Go Live: continuation of the CEP delivery. Ongoing case support on advanced request and subject to availability. Parties will mutually agree on deliverables and scheduling of the requested training. This educational offering must be utilized within 12 months following install end date. If this offering is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.	$ 43,888
1	GEL104013660127 8	**Black anti-fatigue mat 36x60** Black NewLife EcoPro anti-fatigue mat (36 inches x 60 inches), 3/4 inch polyurethane foam, fluid and dirt resistant with anti-micorbial properties, matte textured surface. The ultimate employee benefit for workers who stand, are ergonomically designed to provide the perfect balance of premium comfort and optimal support. Proprietary Cellulon®Polyurethane Technology stands up to the tough demands of commercial environments while providing lasting comfort that won't bottom out over time. This eco-friendly line of anti-fatigue mats is certified by the National Floor Safety Institute for its high traction bottom surface.	$ 260
1	AXA_ADDL_RIGGING	**Additional Rigging AXA $13,400**	$ 13,400

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1	AXA_TRADE_IN_ALLOW	**Trade-in of a Philips Allura FD 10, Project #2022-3426, Deinstall/Expiration 12/31/2023 ($9,325)**	- $ 9,325

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Quote Nr:	**CPQ-756544 Rev. 0**
Terms of Payment:	**00% Down, 90% Delivery, 10% Installation** **Free On Board:Destination**
Purchasing Agreement:	HEALTHTRUST PURCHASING GRP HEALTHTRUST PURCHASING GRP terms and conditions apply to Quote Nr CPQ-756544 Customer certifies, and Siemens relies upon such certification, that : (a) HPG-73598 ULTRASOUND is the sole GPO for the purchases described in this Quotation, and (b) the person signing this Quotation is fully authorized under the Customer's policies to choose and indicate for Customer such appropriate GPO.

ACUSON SC2000 (with ICE Options)

All items listed below are included for this system: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price
1	11508908	**SC2000, ICE BASE CONFIGURATION** The ACUSON SC2000 PRIME ultrasound system offers excellent image quality for both 2D and 4D without compromise and helps increase productivity with one-click AI-powered knowledge-based measurements, automated protocols and navigational tools. It is the versatile system for your cardiovascular needs, providing the precision and speed clinicians require today. Premium Standard Features * PRIME Configuration * IN Focus Coherent Technology * Native TEQ dynamic ultrasound technology (NTEQ) * Pediatric Imaging Package * eSie Left Heart measurement package * eSieScan Workflow Protocols * Wireless Connectivity * Integrated Gel Warmer Premium Ultrasound System: * Large 21-inch high definition LCD display for easy viewing * Floating control panel with lock and Home Base design * 2 quick access USB ports on control panel, 3 USB ports on the back of the system and 1 USB port on the bottom right * Laser trackball * Ergonomic Micro-Pinless connector ports * 4 wheel swivel with high-end bearings for improved mobility * Rear Handle * Ambient, context sensitive lighting * 2 Terabyte hard drive System Security: * McAfee® embedded security solution	$ 72,085

1	10433801	**SC2000, ENGLISH KEYBOARD**	$ 0
1	10044612	**SC2000, POWER SUPPLY, 115V**	$ 0
1	10044615	**SC2000, NTSC VIDEO INTERFACE**	$ 0
1	11289536	**SC2000, ACUNAV VOLUME ICE BUNDLE** This bundle enables use of the ACUSON AcuNav Volume Intracardiac Echocardiography (ICE) ultrasound catheter via the SwiftLink Volume catheter connector. The bundle includes: * SwiftLink Volume catheter connector * Box of sterile, single-use covers for the SwiftLink Volume catheter connector Note: ACUSON AcuNav Volume ICE ultrasound catheters sold separately. This requires the ACUSON SC2000 PRIME ultrasound system to be at software version 5.1 or higher.	$ 6,859
1	10440506	**SC2000, ESIEMEASURE PKG** The bundle provides 118-TTE and 22-TEE one-click AI-powered semi-automated measurements for basic echo exams, improving quality by increasing accuracy and consistency as well as increased efficiency saving 6 minutes per routine echo exam. It contains the following: * eSie Measure 2D * eSie Measure M-Mode * eSie Measure Spectral Doppler	$ 4,243
1	11151615	**SC2000, WIRELESS CONFIG, NON-EUR** This configuration provides the required hardware and software to abide by the wireless protocols for countries outside the European Union.	$ 0
1	10433821	**SC2000, TRNSDCR, 4V1C, MP** A vector wide-view array transducer for transthoracic adult and pediatric echocardiography.	$ 7,488
1	11286942	**SC2000, ECG LEADS, TIR, USA** The USA Type ECG Leads will work with all new ACUSON SC2000 ultrasound systems 5.0 and upgraded systems at 5.0 SW that have also upgraded the physio module.	$ 115
1	11286976	**SC2000, STRESS ECHO EXT ADP CBL TIR** The Aux Cable, Stress Echo, External Monitor Cables will work with all new ACUSON SC2000™ 5.0 ultrasound systems and upgraded 5.0 systems that have also upgraded the physio module.	$ 125
1	11657496	**ACUNAV VOLUME CATHETER ENG MNL**	$ 43
1	11511672	**SC2000, 6.1, OPERATING SYS, ENGLISH**	$ 0
1	11511667	**SC2000, 6.1, CARDIAC BASE SYSTEM**	$ 0
1	11288668	**SC2000, 2D ICE BUNDLE** This bundle enables use of the ACUSON AcuNav ultrasound catheters (8F and 10F) and SoundStar® catheter for Intracardiac Echo (ICE) procedures via the SwiftLink catheter connector and the CARTOSOUND® communication package. The bundle includes: * 2D SwiftLink Catheter Connector * CARTOSOUND® Communication Package * Box of sterile, single-use covers for the SwiftLink connector Note: ACUSON AcuNav and SoundStar® ultrasound catheters sold separately.	$ 7,957
1	10044202	**ACUNAV, USER MANUAL, ENGLISH**	$ 144

1	USD_INITIAL_16	**Initial onsite training 16 hrs-FMV $0** 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. 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.	$ 0
1	US_PRELEARN	**Ultrasound System Pre-Learning** PEPconnect is a user-friendly and intuitive online learning platform which offers quick and reliable access to clinical training and continuing education. Education content will be available on PEPconnect before your ultrasound system arrives to prepare for the installation. Pre-learning content includes how-to tutorials, quick guides and step-by-steps for all Siemens ultrasound systems. This educational offering can be used before the system arrives, during installation and as needed after the installation is complete.	$ 0

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Quote Nr:	**CPQ-699362 Rev. 0**
Terms of Payment:	**00% Down, 90% Delivery, 10% Installation** **Free On Board:Destination**
Purchasing Agreement:	HEALTHTRUST PURCHASING GRP HEALTHTRUST PURCHASING GRP terms and conditions apply to Quote Nr CPQ-699362 Customer certifies, and Siemens relies upon such certification, that : (a) HPG-73598 ULTRASOUND is the sole GPO for the purchases described in this Quotation, and (b) the person signing this Quotation is fully authorized under the Customer's policies to choose and indicate for Customer such appropriate GPO.

Artis Access Freestyle Elite- for Artis Q, Q.zen, zee, zeego w/ Siemens DCS

All items listed below are included for this system: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price
1	11002300	**ACUSON Freestyle Mainframe** Mainframe for the ACUSON Freestyle™ (FS) Series ultrasound systems, the world's first ultrasound systems that operate with cable-free transducers, a breakthrough in ultrasound imaging. The systems feature superior image quality and new standards in ease of use in an ergonomic and portable design.	$ 17,106
1	11004043	**FREESTYLE ELITE, ARTIS ACCESS 4.1** Exclusive to the ACUSON Freestyle Elite ultrasound system, Artis Access eliminates ultrasound cables and system footprint on the workspace floor.	$ 9,745
1	11003921	**FREESTYLE, 4.1, LANG KIT, ENG** Operating instructions written in English for the ACUSON Freestyle Series ultrasound systems, release 4.1	$ 46
1	11002331	**Freestyle Cordset North America** Custom power cordset for use with the ACUSON Freestyle™ ultrasound system in the North America. Product pending shipment confirmation.	$ 0
1	11004071	**FREESTYLE, 4.1, ARTIS KIT, VD11** The adjustable External Antenna works together with the internal antennas of an ACUSON Freestyle Elite ultrasound system when an additional line-of-sight is required to optimize signal strength in the procedural workspace. Purchasable after the selection of Artis Access, ACUSON Freestyle Elite (PN 11004043)	$ 3,473
1	11004374	**FREESTYLE, TRNSDCR, L17-5** A 17-5 MHz, linear, wireless, and cable-free transducer for use with the ACUSON Freestyle™ Series ultrasound systems. Includes one transducer battery.	$ 6,324
1	11004370	**FREESTYLE, TRNSDCR, L8-3** An 8-3 MHz, linear, wireless, and cable-free transducer for use with the ACUSON Freestyle™ Series ultrasound systems. Includes one transducer battery.	$ 6,324

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1	11003759	**FREESTYLE, STAND ALONE CHARGER KIT** ACUSON Freestyle Stand-Alone Charger provides convenient charging and storage solution for 3 ACUSON Freestyle batteries and 4 ACUSON Freestyle probes. Ideal for Advanced Therapies(AT)/Freestyle integrated configurations providing easily accessible battery charging and probe storage. Ships with Universal power supply with interchangeable country plugs.	$ 1,140
1	USD_INITIAL_4	**Initial onsite training 4 hrs -FMV $1750** Up to (4) hours of 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.	$ 0
1	US_PRELEARN	**Ultrasound System Pre-Learning** PEPconnect is a user-friendly and intuitive online learning platform which offers quick and reliable access to clinical training and continuing education. Education content will be available on PEPconnect before your ultrasound system arrives to prepare for the installation. Pre-learning content includes how-to tutorials, quick guides and step-by-steps for all Siemens ultrasound systems. This educational offering can be used before the system arrives, during installation and as needed after the installation is complete.	$ 0
1	ACU_SVC_FSTYLE_2YR	**USD Ext Warrty FStyle 2nd yr (FMV $4,264**	$ 4,264
1	ACU_XWR_FSTYLE_2YR	**Offset for FStyle Ext Warranty 2nd yr**	- $ 4,264
1	ACU_SVC_FSTYLE_3YR	**USD Ext Warrty FStyle 3rd yr (FMV $4,264**	$ 4,264
1	ACU_XWR_FSTYLE_3YR	**Offset for FStyle Ext Warranty 3rd yr**	- $ 4,264

Contract Total: $ 1,135,283

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OPTIONS on Quote Nr : CPQ-472723 Rev. 4

OPTIONS for Artis Q.zen ceil. Combo Card/Rad

All items listed below are OPTIONS and will be included on this system ONLY if initialed: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price	Initial to Accept
1	BART700PEDL	**Mark 7 Arterion, Pedestal System** The Arterion Mark 7 Pedestal contrast medium injector can be positioned anywhere at the patient positioning table on a mobile unit, for direct operation of all functions in the examination room. The injector system includes: A mobile pedestal stand with electronics unit, a contrast medium heater and a connection cable to the manual release. A support arm with injector head and a control lever for moving the injector head. A user control console with large touch screen and corresponding additional monitoring display on the injector head. 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	**+ $ 29,016**	X

		Injector standard configuration 150 ml SIEMENS interface cable Operator Manual Service manual (English). Power supply 200 V to 250 V; 50/60 Hz.		
1	BINSART700P	**Arterion Pedestal Install**	**+ $ 1,606**	X_____
1	14432925	**PERISTEPPING / PERIVISION** Motorized stepping for real-time bolus chasing. C-arm stepping with ARTIS pheno and ceiling mounted systems, table stepping with floor mounted and biplane systems. Peripheral digital angiography with stepping and online subtraction display.	**+ $ 19,265**	X_____
1	14440411	**Intercom - Comfort** Intercom system for communication between examination room and control room. It includes: - A microphone with a control box for the control room. - A microphone with an adaptive acoustic filter for background noise suppression for the examination room. - A footswitch for conversation selection for the examination room.	**+ $ 824**	X_____

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OPTIONS on Quote Nr : CPQ-756544 Rev. 0

OPTIONS for ACUSON SC2000 (with ICE Options)

All items listed below are OPTIONS and will be included on this system ONLY if initialed: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price	Initial to Accept
1	10440491	**SC2000, ESIE LVA** eSie LVA volume LV analysis is an automated volume quantitative analysis package based on AI-powered knowledge-base algorithms and designed specifically for the left ventricle. It includes Ejection Fraction (EF), volumes (end Diastolic / end Systolic) and mechanical dyssynchrony tools and calculations for up to five consecutive beats. Multiple consecutive beat analyses provides averaged calculations for irregular heart rhythms. The algorithms are based on a large database of expert-traced datasets improving reproducibility and workflow efficiency.	**+ $ 14,851**	X_____
1	11146699	**SC2000, ESIE VALVES** eSie Valves™ advanced analysis package provides accelerated workflow to visualize and quantify mitral and aortic valve anatomy. Software tools detect anatomical models of the aortic and mitral valves in an automated manner utilizing Siemens knowledge-based technologies. Software offers static or dynamic models with accompanying measurements.	**+ $ 17,472**	X_____
1	10853305	**SC2000, ADV VASCULAR IMAG BNDL** The bundle provides additional feature-rich peripheral and cerebrovascular imaging technologies and transducers to achieve high quality vascular exams. It contains the following: * 9L4 Vascular Transducer * Advanced SieClear spatial compounding * Vascular Imaging Package	**+ $ 10,608**	X_____
1	11511822	**SC2000, TRNSDCR, Z6MS, MP** Matrix array transducer with active electronics enables true volume 4D transesophageal imaging for every heartbeat.	**+ $ 37,140**	X_____

FINANCING: The equipment listed above may be financed through Siemens. Ask us about our full range of financial products that can be tailored to meet your business and cash flow requirements. For further information, please contact your local Sales Representative.

ACCESSORIES: Don't forget to ask us about our line of OEM imaging accessories to complete your purchase. All accessories can be purchased or financed as part of this order. To purchase accessories directly or to receive our accessories catalog, please call us directly at 1-888-222-9944 or contact your local Sales Representative.

COMPLIANCE: Compliance with legal and internal regulations is an integral part of all business processes at Siemens. Possible infringements can be reported to our Helpdesk “Tell us” function at www.siemens.com/tell-us.

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Siemens Medical Solutions USA, Inc. General Terms and Conditions

1. GENERAL

1.1 Contract Terms and Acceptance. These terms and conditions constitute an integral part of any contract between Seller and Purchaser identified on the first page hereof and shall govern the sale of the products identified in such contract ("Products"). Purchaser acknowledges that this is a commercial and not a consumer transaction. Purchaser shall be deemed to have assented to, and to have waived any objection to, this Agreement upon the earliest to occur of any of the following: Purchaser's completion or execution of this Agreement; Purchaser's acceptance of all or any part of the Products; Purchaser's issuance of a purchase order for any Products identified on Seller's quotation or proposal; or delivery of the Products to the common carrier for shipment pursuant hereto.**1.2 Refurbished/Used Products.** For Products identified on this Agreement as used or refurbished Products, these Products have been previously owned and used. When delivered to Purchaser, such Products will perform in accordance with the manufacturer's specifications. Since pre-owned Products may be offered simultaneously to several customers, the availability of such Products to Purchaser cannot be guaranteed. If the Products are no longer available, Seller will use its best efforts to identify other suitable products in its inventory. If substitute products are not acceptable to Purchaser, then Seller will cancel the order and refund to Purchaser any deposits previously paid. The warranty period for any used or refurbished Products will be separately stated on the quotation. **1.3 Third Party Products.** If this Agreement includes the sale of third party products not manufactured by Seller, then Purchaser agrees and acknowledges that (a) Purchaser has made the selection of these products on its own, (b) the products are being acquired by Seller solely at the request of and for the benefit and convenience of Purchaser, (c) no representation, warranty or guarantee has been made by Seller with respect to the products, (d) the obligation of Purchaser to pay Seller for the products is absolute and unconditional, (e) use of the products may be subject to Purchaser's agreement to comply with any software licensing terms imposed by the manufacturer; and (f) unless otherwise indicated by Seller in writing, Seller is not responsible for any required installation, validation, product recall, warranty service, maintenance, complaint handling, or any other applicable FDA regulatory requirements, and the Purchaser will look solely to the manufacturer regarding these services and will assert no claim against Seller with respect to these products.

2. PRICES

2.1 Quotations. Unless otherwise agreed to in writing or set forth in the quotation, all prices quoted by Seller and amounts payable by Purchaser are in U.S. dollars, and include Seller's standard packaging. The prices quoted to Seller assume that the Seller is located in, and will use the Products in, the U.S. If not, such quotation will be void. Unless otherwise stated, the quotation shall only be valid for forty-five (45) days from the date of the quotation.**2.2 Delay in Acceptance of Delivery.** Should the agreed delivery date be postponed by Purchaser, Seller shall have the right to deliver the Products to storage at Purchaser"s risk and expense, and payments due upon delivery shall become due when Seller is ready to deliver.

3. TAXES

3.1 Any sales, use or manufacturer"s tax which may be imposed upon the sale or use of Products, or any property tax levied after readiness to ship, or any excise tax, license or similar fee (excluding the Medical Device Excise Tax as set forth in Section 4191 of the Internal Revenue Code of 1986, as amended) required under this transaction, shall be in addition to the quoted prices and shall be paid by Purchaser. Notwithstanding the foregoing, Seller agrees to honor any valid exemption certificate provided by Purchaser.

4. TERMS OF PAYMENT; DEFAULT

4.1 Payments; Due Date. Unless otherwise set forth in the quotation, Purchaser shall pay Seller as follows: an initial deposit of 10% of the purchase price for each Product is due upon submission of the purchase order, an additional 80% of the purchase price is due upon delivery of each Product, and the final 10% of the purchase price is due upon completion of installation or when the Products are available for first patient use, whichever occurs first. Unless otherwise agreed, all payments other than the initial deposit are due net thirty (30) days from the date of invoice. Seller shall have no obligation to complete installation until the payment due upon delivery is received. Partial shipments shall be

billed as made, and payments for such shipments will be made in accordance with the foregoing payment terms.**4.2 Late Payment.** A service charge of 1½% per month, not to exceed the maximum rate allowed by law, shall be made on any portion of Purchaser"s outstanding balance which is not paid when due. Payment of such service charge shall not excuse or cure Purchaser's breach or default for late payment.**4.3 Payment of Lesser Amount.** If Purchaser pays, or Seller otherwise receives, a lesser amount than the full amount provided for under this Agreement, such payment shall not constitute or be construed other than as on account of the earliest amount due Seller. No endorsement or statement on any check or payment or elsewhere shall constitute or be construed as an accord or satisfaction. **4.4 Where Payment Due Upon Installation or Completion.** Should any terms of payment provide for either full or partial payment upon completion of installation or thereafter, and completion of installation is delayed for any reason for which Seller is not responsible beyond the installation date set forth in the Notice to Manufacture Letter issued by Seller, as applicable, then the balance of payments shall be due on the day following such installation date.**4.5 Default; Termination.** Each of the following shall constitute an event of default under this Agreement: (i) a failure by Purchaser to make any payment when due; (ii) a failure by Purchaser to perform any other obligation under this Agreement within thirty (30) days of receipt of written notice from Seller; or (iii) the commencement of any insolvency, bankruptcy or similar proceedings by or against Purchaser. Upon the occurrence of any event of default, at Seller's election: (a) the entire amount of any indebtedness and obligation due Seller under this Agreement and interest thereon shall become immediately due and payable; (b) Seller may suspend the performance of any of Seller's obligations hereunder, including, but not limited to, obligations relating to delivery, installation and warranty services; (c) Purchaser shall put Seller in possession of the Products upon demand; (d) Seller may sell or otherwise dispose of all or any part of the Products and apply the proceeds thereof against any indebtedness or obligation of Purchaser under this Agreement; (e) if this Agreement or any indebtedness or obligation of Purchaser under this Agreement is referred to an attorney for collection or realization, Purchaser shall pay to Seller all costs of collection and realization (including, without limitation, a reasonable sum for attorneys' fees); and Purchaser shall pay any deficiency remaining after collection of or realization by Seller on the Products. In addition, Seller may terminate this Agreement upon written notice to Purchaser in the event that Purchaser is not approved for credit or upon the occurrence of any material adverse change in the financial condition or business operations of Purchaser.**4.6 Financing.** Notwithstanding any arrangement that Purchaser may make for the financing of the purchase price of the Products, the parties agree that any such financing arrangement shall have no effect on the Purchaser's payment obligations under this Agreement, including but not limited to Sections 4.1 and 4.2 above.

5. EXPORT TERMS

5.1 Unless other arrangements have been made, payment on export orders shall be made by irrevocable confirmed letter of credit, payable in U.S. dollars against Seller's invoice and standard shipping documents. Such letter of credit shall be in an amount equal to the full purchase price of the Products and shall be established in a U.S. bank acceptable to Seller. Purchaser shall have sole responsibility to procure all necessary permits and licenses for shipment and compliance with any governmental regulations concerning control of final destination of Products.**5.2** Purchaser agrees that Products shall not at any time directly or indirectly be used, exported, sold, transferred, assigned or otherwise disposed of in a manner which will result in non-compliance with applicable export Control and US Sanction laws and regulations. If Purchaser purchases a Product at the domestic price and exports such Product, or transfers such Product to a third party for export, outside of the U.S., Purchaser shall pay to Seller the difference between the domestic price and the international retail price of such Product. Purchaser shall deliver to Seller, upon Seller's request, written assurance regarding compliance with this Section in form and content acceptable to Seller.

6. DELIVERY, RISK OF LOSS

6.1 Delivery Date. Delivery and installation dates will be established by mutual agreement of the parties as set forth in the Notice to Manufacture Letter issued by the Seller, as applicable. Seller shall make reasonable efforts to meet such delivery date(s).**6.2 Risk of Loss; Title Transfer.** Unless otherwise agreed to in writing, the following shall apply: (a) For Products that do not require installation by Seller, and for options and add-on products purchased subsequent to delivery and installation of Products purchased under this

Agreement, delivery shall be complete upon transfer of possession to common carrier, F.O.B. Shipping Point, whereupon title to and all risk of loss, damage to or destruction of the Products shall pass to Purchaser. (b) For Products that require installation by Seller, delivery shall be complete upon delivery of the Products to Purchaser's designated site, F.O.B. Destination; whereupon title to and all risk of loss, damage to or destruction of such Products shall pass to Purchaser upon completion of delivery. (c) All freight charges and other transportation, packing and insurance costs, license fees, custom duties and other similar charges shall be the sole responsibility of Purchaser unless included in the purchase price or otherwise agreed to in writing by Seller. In the event of any loss or damage to any of the Products during shipment, Seller and Purchaser shall cooperate in making any insurance claim.

7. SECURITY INTEREST/FILING

7.1 Purchaser grants to Seller a security interest in the Products until payment in full by Purchaser. Purchaser shall sign any financing statements or other documents necessary to perfect Seller's security interests in the Products. Purchaser further represents and covenants that (a) it will keep the Products in good order and repair until the purchase price has been paid in full, (b) it will promptly pay all taxes and assessments upon the Products or the use thereof, (c) it will not attempt to transfer any interest in the Products until the purchase price has been paid in full, and (d) it is solvent and financially capable of paying the full purchase price for the Products.

8. CHANGES, CANCELLATION, AND RETURN

8.1 Orders accepted by Seller are not subject to change except upon Seller's written agreement.**8.2** Orders accepted by Seller are non-cancellable by Purchaser except upon Seller's written consent and payment by Purchaser of a cancellation charge equal to 10% of the price of the affected Products, plus any shipping, insurance, inspection and refurbishment charges; the cost of providing any training, education, site evaluation or other services completed by Seller; and any return, cancellation or restocking fees with respect to any Third Party Products ordered by Seller on behalf of Purchaser. Seller may retain any payments received from Purchaser up to the amount of the cancellation charge. In no event can an order be cancelled by Purchaser or Products be returned to Seller after shipment.**8.3** Seller reserves the right to change the manufacture and/or design of its Products if, in the judgment of Seller, such change does not alter the general function of the Products.

9. FORCE MAJEURE

9.1 Seller shall not be liable for any loss or damage for delay in delivery, inability to install or any other failure to perform due to causes beyond its reasonable control including, but not limited to, acts of God or the public, war, civil commotion, blockades, embargoes, calamities, floods, fires, earthquakes, explosions, storms, strikes, lockouts, labor disputes, or unavailability of labor, raw materials, power or supplies. Should such a delay occur, Seller may reasonably extend delivery or production schedules or, at its option, cancel the order in whole or part without liability other than to return any unearned deposit or prepayment.

10. WARRANTY

10.1 Seller warrants that the Products manufactured by Seller and sold hereunder shall be free from defects in material or workmanship under normal use and service for the warranty period. The final assembled Products shall be new although they may include certain used, reworked or refurbished parts and components (e.g., circuit boards) that comply with performance and reliability specifications and controls. Seller's obligation under this warranty is limited, at Seller's option, to the repair or replacement of the Product or any part thereof. Unless otherwise set forth in the Product Warranty attached hereto and incorporated herein by reference ("Product Warranty"), the warranty period shall commence upon the earlier of the date that the Products have been installed in accordance with Section 12.5 hereof (which date shall be confirmed in writing by Seller) or first patient use, and shall continue for twelve (12) consecutive months. Seller makes no warranty for any Products made by persons other than Seller or its affiliates, and Purchaser's sole warranty therefor, if any, is the original manufacturer"s warranty, which Seller agrees to pass on to Purchaser, as applicable. The warranty provided by Seller under this Section 10 extends only to the original Purchaser, unless the Purchaser obtains the Seller's prior written consent with respect to any sale or other transfer of the Products during the term of the warranty.**10.2** No warranty extended by Seller shall apply to any Products which have been damaged by fire, accident, misuse, abuse, negligence, improper application or alteration or by a force majeure occurrence as described in Section

9 hereof or by the Purchaser's failure to operate the Products in accordance with the manufacturer's instructions or to maintain the recommended operating environment and line conditions; which are defective due to unauthorized attempts to repair, relocate, maintain, service, add to or modify the Products by the Purchaser or any third party or due to the attachment and/or use of non-Seller supplied parts, equipment or software without Seller's prior written approval; which failed due to causes from within non-Seller supplied equipment, parts or software including, but not limited to, problems with the Purchaser's network; or which have been damaged from the use of operating supplies or consumable parts not approved by Seller. In addition, there is no warranty coverage for any transducer or probe failure due to events such as cracking from high impact drops, cable rupture from rolling equipment over the cable, delamination from cleaning with inappropriate solutions, or TEE bite marks. Seller may effectuate any repairs at Purchaser's facility, and Purchaser shall furnish Seller safe and sufficient access for such repair. Repair or replacement may be with parts or products that are new, used or refurbished. Repairs or replacements shall not interrupt, extend or prolong the term of the warranty. Purchaser shall, upon Seller's request, return the non-complying Product or part to Seller with all transportation charges prepaid, but shall not return any Product or part to Seller without Seller's prior written authorization. Purchaser shall pay Seller its normal charges for service and parts for any inspection, repair or replacement that falls outside of Seller's warranty. Seller's warranty does not apply to consumable materials, disposables, supplies, accessories and collateral equipment, except as specifically stated in writing or as otherwise set forth in the Product Warranty.**10.3** This warranty is made on condition that immediate written notice of any noncompliance be given to Seller and Seller's inspection reveals that Purchaser"s claim is covered under the terms of the warranty (i.e., that the noncompliance is due to traceable defects in original materials and/or workmanship).**10.4** Purchaser shall provide Seller with both on-site and remote access to the Products. The remote access shall be provided through the Purchaser's network as is reasonably necessary for Seller to provide warranty services under this Agreement. Remote access will be established through a broadband internet-based connection to either a Purchaser owned or Seller provided secure end-point. The method of connection will be a Peer-to-Peer VPN IPsec tunnel (non-client based) with specific inbound and outbound port requirements.**10.5** Warranty service will be provided without charge during Seller"s regular working hours (8:30-5:00), Monday through Friday, except Seller's recognized holidays. If Purchaser requires that service be performed outside these hours, such service can be made available at an additional charge, at Seller's then current rates. The obligations of Seller described in this Section are Seller's only obligations and Purchaser's sole and exclusive remedy for a breach of product warranty.**10.6 SELLER MAKES NO WARRANTY OTHER THAN THE ONE SET FORTH HEREIN AND IN THE PRODUCT WARRANTY. SUCH WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES, AND SUCH CONSTITUTES THE SOLE AND EXCLUSIVE WARRANTY MADE WITH RESPECT TO THE PRODUCTS, SERVICE OR OTHER ITEM FURNISHED UNDER THIS AGREEMENT.10.7** In the event of any inconsistencies between the terms of this Section 10 and the terms of the Product Warranty, the terms of the Product Warranty shall prevail.

11. LIMITATION OF LIABILITY

11.1 In no event shall Seller's liability hereunder exceed the actual loss or damage sustained by Purchaser, up to the purchase price of the Products. The foregoing limitation of liability shall not apply to claims for bodily injury or damages to real property or tangible personal property to the extent arising from Seller's negligence or a product defect.**11.2 SELLER SHALL NOT BE LIABLE FOR ANY LOSS OF USE, REVENUE OR ANTICIPATED PROFITS; COST OF SUBSTITUTE PRODUCTS OR SERVICES; LOSS OF STORED, TRANSMITTED OR RECORDED DATA; OR FOR ANY INDIRECT, INCIDENTAL, UNFORESEEN, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY OR FORM OF ACTION, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY THEREOF, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE SALE OR USE OF THE PRODUCTS. THE FOREGOING IS A SEPARATE, ESSENTIAL TERM OF THIS AGREEMENT AND SHALL BE EFFECTIVE UPON THE FAILURE OF ANY REMEDY, EXCLUSIVE OR NOT.**

12. INSTALLATION - ADDITIONAL CHARGES

12.1 General. Unless otherwise expressly stipulated in writing, the Products shall be installed by and at the expense of Seller except that Seller shall not provide rigging or site preparation services unless otherwise agreed to in writing by Seller for an additional charge. Seller will not install accessory items such as cabinets, illuminators, darkroom equipment or processors for X-Ray and CT equipment, unless otherwise agreed to in writing by Seller.**12.2 Installation by Seller.** If Seller specifies it will install the Products, the following applies: subject to fulfillment of the obligations set forth in Section 12.3 below, Seller shall install the Products and connect them to the requisite safety switches and power lines to be installed by Purchaser. Except as otherwise specified below, if such installation and connection are performed by Seller‘s technical personnel, prices shown include the cost thereof, provided that the installation and connection can be performed within the Continental United States or Puerto Rico and during normal business hours. Any overtime charges or other special expenses shall be additional charges to the prices shown.**12.3 Purchaser"s Obligations.** Purchaser shall, at its expense, provide all proper and necessary labor and materials for plumbing service, carpentry work, conduit wiring, and other preparations required for such installation and connection. All such labor and materials shall be completed and available at the time of delivery of the Products by Seller. Additionally, Purchaser shall provide free access to the installation site and, if necessary, safe and secure space for storage of Products and equipment prior to installation by Seller. Purchaser shall be responsible, at its sole cost and expense, for obtaining all permits, licenses and approvals required by any federal, state or local authorities in connection with the installation and operation of the Products, including but not limited to any certificate of need and zoning variances. Purchaser shall provide a suitable environment for the Products and shall ensure that its premises are free of hazardous conditions and any concealed or dangerous conditions and that all site requirements are met. Seller shall delay its work until Purchaser has completed the removal of any hazardous materials or has taken any other precautions and completed any other work required by applicable regulations. Purchaser shall reimburse Seller for any increased costs and expenses incurred by Seller that are the result of or are caused by any such delay. In the event that Seller is requested to supervise the installation of the Products, it remains the Purchaser"s responsibility to comply with local regulations. Seller is not an architect and all drawings furnished by Seller are not construction drawings. If local labor conditions, including a requirement to use union labor, require the use of non-Seller employees to participate in the installation of the Product or otherwise causes delays or any additional expenses, then any such additional costs shall be at Purchaser’s expense. **12.4 Regulatory Reporting.** In the event that any regulatory activity is performed by anyone other than Seller’s authorized personnel, then Purchaser shall be responsible for fulfilling any and all reporting requirements.**12.5 Completion of Installation.** Installation shall be complete upon the conclusion of final calibration and checkout under Seller’s standard procedures to verify that the Products meet applicable written performance specifications. Notwithstanding the foregoing, first use of the Products by Purchaser, its agents or employees for any purpose after delivery shall constitute completion of installation.

13. PATENT, COPYRIGHT AND OTHER INFRINGEMENT CLAIMS

13.1 Infringement by Seller. Seller warrants that the Products manufactured by Seller and sold hereunder do not infringe any U.S. patent or copyright. If Purchaser receives a claim that any such Products, or parts thereof, infringe upon the rights of others under any U.S. patent or copyright, Purchaser shall notify Seller immediately in writing. Provided that Purchaser gives Seller information, assistance and exclusive authority to evaluate, defend and settle such claims, Seller shall at its own expense and option: indemnify and defend Purchaser against such claims; settle such claims; procure for Purchaser the right to use the Products; or remove or modify them to avoid infringement. If none of these alternatives is available on terms reasonable to Seller, then Purchaser shall return the Products to Seller and Seller shall refund to Purchaser the purchase price paid by Purchaser less reasonable depreciation for Purchaser’s use of the Products. The foregoing states Seller’s entire obligation and liability, and Purchaser’s sole remedy, for claims of infringement.**13.2 Infringement by Purchaser.** If some or all of the Products sold hereunder are made by Seller pursuant to drawings or specifications furnished by Purchaser, or if Purchaser modifies or combines, operates or uses the Products other than as specified by Seller or with any product, data, software, apparatus or program not provided or approved by Seller, then the

indemnity obligation of Seller under Section 13.1 shall be null and void.

14. DESIGNS AND TRADE SECRETS; LICENSE; CONFIDENTIALITY

14.1 Any drawings, data, designs, software programs or other technical information supplied by Seller to Purchaser in connection with the sale of the Products shall remain Seller's property and shall at all times be held in confidence by Purchaser.**14.2** For all Products which utilize software for their operation, such "Applications Software" shall be licensed to Purchaser under the terms of Seller's Software License Schedule attached hereto.**14.3** Seller and Purchaser shall maintain the confidentiality of any information provided or disclosed to the other party relating to the business, customers and/or patients of the disclosing party, as well as this Agreement and its terms (including the pricing and other financial terms under which the Purchaser will be purchasing the Products). Each party shall use reasonable care to protect the confidentiality of the information disclosed, but no less than the degree of care it would use to protect its own confidential information, and shall only disclose the other party's confidential information to its employees and agents having a need to know this information. The obligations of confidentiality set forth herein shall not apply to any information in the public domain at the time of disclosure or that is required to be disclosed by court order or by law.

15. ASSIGNMENT

15.1 Neither party may assign any rights or obligations under this Agreement without the prior written consent of the other, which shall not be unreasonably withheld. Any attempt to do so shall be void, except that Seller may assign this Agreement without consent to any subsidiary or affiliated company, and may delegate to authorized subcontractors or service suppliers any work to be performed under this Agreement so long as Seller remains liable for the performance of its obligations under this Agreement. This Agreement shall inure to and be binding upon the parties and their respective successors, permitted assigns and legal representatives.

16. COSTS AND FEES

16.1 In the event that any dispute or difference is brought arising from or relating to this Agreement or the breach, termination or validity thereof, the prevailing party shall be entitled to recover from the other party all reasonable attorneys' fees incurred, together with such other expenses, costs and disbursements as may be allowed by law.

17. MODIFICATION

17.1 This Agreement may not be changed, modified or amended except in writing signed by duly authorized representatives of the parties.

18. GOVERNING LAW; WAIVER OF JURY TRIAL

18.1 This Agreement shall be governed by the laws of the state where the Product(s) will be installed, without regard to that state's choice of law principles.**18.2 EACH OF THE PARTIES EXPRESSLY WAIVES ALL RIGHTS TO A JURY TRIAL IN CONNECTION WITH ANY DISPUTE UNDER THIS AGREEMENT.**

19. COST REPORTING

19.1 Purchaser agrees that it must fully and accurately report prices paid under this Agreement, net of all discounts, as required by applicable law and contract, including without limitation 42 CFR §1001.952(h),in all applicable Medicare, Medicaid and state agency cost reports. Purchaser shall retain a copy of this Agreement and all other communications regarding this Agreement, together with the invoices for purchase and permit agents of the U.S. Department of Health and Human Services or any state agency access to such records upon request.

20. INTEGRATION

20.1 These terms and conditions, including any attachments or other documents incorporated by reference herein, constitute the entire, complete and exclusive statement of agreement with respect to the subject matter hereof, and supersede any and all prior agreements, understandings and communications between the parties with respect to the Products. Purchaser's additional or different terms and conditions stated in a purchase order, bid documents or any other document issued by Purchaser are specifically rejected and shall not apply to the transactions contemplated under this Agreement.

21. SEVERABILITY; HEADINGS

21.1 No provision of this Agreement which may be deemed unenforceable will in any way invalidate any other portion or provision of this Agreement. Section headings are for convenience only and have no substantive effect.

22. WAIVER

22.1 No failure and no delay in exercising, on the part of any party, any right under this Agreement will operate as a waiver thereof, nor will any single or partial exercise of any right preclude the further exercise of any other right.

23. NOTICES
23.1 Any notice or other communication under this Agreement shall be deemed properly given if in writing and delivered in person or mailed, properly addressed and stamped with the required postage, to the intended recipient at its address specified on the face hereof.

24. RIGHTS CUMULATIVE
24.1 The rights and remedies afforded to Seller under this Agreement are in addition to, and do not in any way limit, any other rights or remedies afforded to Seller by any other agreement, by law or otherwise.

25. END USER CERTIFICATION
25.1 Purchaser represents, warrants and covenants that it is acquiring the Products for its own end use and not for reselling, leasing or transferring to a third party (except for lease-back financings).

26. ACCESS TO BOOKS AND RECORDS
26.1 To the extent required by Section 1861(v)(1)(I) of the Social Security Act and the regulations promulgated thereunder, until the expiration of four (4) years after the furnishing of any Product or service pursuant to this Agreement, Seller shall make available, upon written request by the Secretary of Health and Human Services (the “Secretary”), or upon request by the Comptroller General (the “Comptroller”), or any of their duly authorized representatives, copies of this Agreement and any books, documents, records or other data of Seller that are necessary to certify the nature and extent of any costs incurred by Purchaser for such Products and services. If Seller carries out any of its duties under this Agreement through a subcontract with a related organization involving a value or cost of ten thousand dollars ($10,000) or more over a twelve (12) month period, Seller will cause such subcontract to contain a clause to the effect that, until the expiration of four (4) years after the furnishing of any Product or service pursuant to said contract, the related organization will make available upon the written request of the Secretary or the Comptroller, or any of their duly authorized representatives, copies of records of said related organization that are necessary to certify the nature and extent of cost incurred by Purchaser for such Product or service.

27. DISPOSITION OF PRODUCTS
27.1 Purchaser expressly agrees that should Purchaser sell, transfer or otherwise dispose of the Products, Purchaser shall notify Seller in writing and give Seller the opportunity to purchase such Products. With Purchaser’s notice, Purchaser shall provide Seller with a copy of the third party’s binding offer to purchase the Products and Seller shall have seven (7) days to notify the Purchaser of an offer to purchase the Products.
05/15 Rev.

Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard, Malvern, PA 19355

SIEMENS REPRESENTATIVE
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Software License Schedule
to the Siemens Medical Solutions USA, Inc General Terms and Conditions

1. DEFINITIONS: The following definitions apply to this Schedule:

"**Agreement**" shall mean the attached (i) Quotation for Products and/or Services including the Terms and Conditions of Sale and applicable schedules; and/or (ii) Software License Agreement describing the software licensed herein and the specific system for which the license is issued.
"**Licensor**" shall mean Siemens Medical Solutions USA, Inc.
"**Licensee**" shall mean the end-user to whom Licensor provides Software or Documentation for its internal use under the Agreement.
"**Software**" shall mean the software described in the attached Agreement, including the following as contained therein: (i) software programs consisting of a series of statements or instructions to be used directly or indirectly in a programmable controller or computer to bring about a certain result and (ii) databases consisting of systemized collections of data to be used or referenced directly or indirectly by a programmed controller or computer. Notwithstanding the foregoing, "Software" does not include "firmware" as such term is conventionally understood. Diagnostic/Maintenance Software also is not included within the scope of the Software licensed under this Schedule, and is available only as a special option under a separate Diagnostic Materials License Agreement and may be subject to a separate licensing fee.
"**Documentation**" shall mean the documents and other supporting materials which are intended to support the use of an associated product, including (but not limited to) instructions, descriptions, flow charts, logic diagrams and listings of the Software, in text or graphic form, on machine readable or printed media.
"**Designated Unit**" shall mean a single control unit or computer identified on the first page of the Agreement, on which Software licensed hereunder may be used by Licensee.

2. SCOPE: The following terms and conditions shall apply to all Software and Documentation provided by Licensor to Licensee under the Agreement (whether included with other products listed in the Agreement or listed separately in the Agreement), together with any updates or revisions thereto which Licensor may provide to Licensee, and all copies thereof, except any Software and/or Documentation licensed directly by Licensor's supplier under a separate end-user license agreement accompanying the Software or the Documentation, in which case Licensee agrees to be bound by that license agreement as a condition to using the Software and/or Documentation. Except as expressly provided herein, and provided that in no event shall the warranties or other obligations of Licensor with respect to such Software or Documentation exceed those set forth in this Schedule, this Schedule shall be subject to the liability limitations and exclusions and other terms and conditions set forth in the Agreement. **ANY USE OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO USE ON THE DESIGNATED UNIT, WILL CONSTITUTE LICENSEE'S AGREEMENT TO THIS SOFTWARE LICENSE SCHEDULE (OR RATIFICATION OF ANY PREVIOUS CONSENT).**

3. SOFTWARE AND DOCUMENTATION LICENSE: Subject to the payment of any applicable annual license fee(s), whether stated separately or included in the purchase price of another product, and to Licensee's acceptance of all of the obligations set forth herein and to the fulfillment of those obligations, Licensor or, if applicable, its licensor or supplier, hereby grants to Licensee a paid-up, nonexclusive and nontransferable (except as expressly provided in this Schedule) limited license to use the Software provided by Licensor under the Agreement solely for Licensee's own use on the Designated Unit and to use the Documentation in support of Licensee's authorized use of the Software, for the purpose of operating the Designated Unit in accordance with the instructions set forth in the user's manual supplied with the Designated Unit and for no other purpose whatsoever. A separate license is required for each Designated Unit on which the Software is to be used. Licensee may obtain from Licensor one copy of the Software licensed hereunder for backup and archival purposes only as is necessary to support Licensee's own authorized use of the Software, provided that Licensee includes on or in all copies (in any form) all copyright, trade secret or other proprietary notices contained on or in the Software as provided by Licensor. Additional copies of the Documentation may be licensed from Licensor at its then applicable charges. Licensee may make the Software and Documentation (including any copies) available only to its employees and other persons on Licensee's premises to whom such disclosure is necessary to enable Licensee to use the Software or Documentation within the scope of the license provided in this Schedule. If the Software is supplied to any unit or agency of the United States Government other than the Department of Defense, the Software and Documentation are classified as "restricted computer software" and the Government's rights in the Software and Documentation shall be as provided in paragraph (c) (2) of the Commercial Computer Software-Restricted Rights clause in FAR 52.227-19 and any successor laws, rules or regulations thereto. If the Software is supplied to the United States Department of Defense, the Software is classified as "commercial computer software" and the Government is furnished the Software and Documentation with "restricted rights" as defined in paragraph (c) (1) of the Rights in Technical Data and Computer Software clause in DFARS 252.227-7013 and any successor laws, rules or regulations thereto.

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TRADE-IN EQUIPMENT REQUIREMENTS

TRADE-IN EQUIPMENT REQUIREMENTS

THE FOLLOWING APPLIES ONLY TO THE EXTENT THAT THE QUOTATION INCLUDES AN EQUIPMENT TRADE IN OR IF A TRADE-IN IS LATER ADDED TO THS QUOTATION VIA A CHANGE ORDER. THESE REQUIREMENTS ARE IN ADDITION TO ANY OTHER REFERENCED TERMS AND CONDITIONS OF THE QUOTATION AND SHALL REMAIN IN EFFECT REGARDLESS OF ANY CONTRARY LANGUAGE IN THE QUOTATION.

This Quotation includes the trade-in equipment described herein and referenced by either the Project Number identified in the Quotation hereof (non-Ultrasound) or the Trade In Part Number (Ultrasound) as further described in the associated Trade Sheet which is incorporated herein by reference. Purchaser certifies that the description of the trade-in equipment as set forth on the Trade Sheet is a true and accurate representation of the equipment, and that the equipment is in good working condition unless otherwise noted on the Trade Sheet.

The trade-in equipment must be made available for removal no later than turnover of the new equipment. Purchaser must vacate the room of all items not listed on the Trade Sheet, or otherwise clearly identify all items listed on the Trade Sheet, prior to the start of the de-installation. If this is not done, Seller will have no liability for items which are subsequently removed or scrapped. If the de-installation or return of the trade-in equipment is delayed by Purchaser for reasons other than a force majeure event, or if upon inspection by Seller it is determined that the equipment does not meet the manufacturer's operating specifications, or if any items listed as included on the Trade Sheet are not made available at the time of de-installation, then trade-in value will be re-evaluated and any loss in value or additional costs incurred by Seller shall be deducted from the established trade-in value and the pricing set forth on this Quotation will be adjusted by change order. In the event that access to the non-ultrasound trade-in equipment is denied past 14 days from turnover, or access to ultrasound trade-in equipment is denied past 30 days from turnover, then Purchaser shall pay to Seller a rental fee in the amount 3.5% of the total trade-in value plus any additional value provided by an Elevate/Promotional program included in this quotation (no less than $1000) for each month, or part thereof, that access is denied. In addition, if the purchase and installation of the new equipment covered by this Quotation is not completed, then Seller shall invoice Purchaser for all costs and expenses incurred by Seller in connection with the de-installation and removal of the trade-in equipment, including but not limited to labor, materials, rigging out, and transportation, which costs shall be paid by Purchaser within thirty (30) days of the invoice date.

Purchaser further acknowledges and agrees that (i) the trade-in equipment will be free and clear of all liens and encumbrances including, but not limited to, unpaid leases and loans, and that upon request, it will execute a bill of sale or other documents reasonably satisfactory to Siemens to transfer title and ownership of the equipment to Seller, (ii) it is Purchaser's sole responsibility to delete all protected health information and any other confidential information from the equipment prior to de-installation, without damaging or cannibalizing the equipment or otherwise affecting the operation of the equipment in accordance with its specifications, (iii) the equipment, including all updates, upgrades, modifications, enhancements, revisions, software, S/W disks and manuals, shall be returned to Siemens in good operating condition, reasonable wear and tear excepted, and (iv) to the extent not prohibited by applicable law, Purchaser shall indemnify and hold Seller harmless from and against any and all claims, demands, causes of action, damages, liability, costs and expenses (including reasonable attorney's fees) resulting or arising from Purchaser's failure to comply with item (i) above.

FOR MR SYSTEMS: cryogen levels must be least 65% upon time of de-installation. FOR MOBILE SYSTEMS: system must be road worthy and a state issued title transferring ownership to Seller (or Designee) must be received prior to the removal of the mobile system. FOR MODALITY TRADE SYSTEMS (non-ultrasound): The trade-in equipment must be available for inspection within two weeks of the scheduled de-installation date. In addition, Purchaser must provide a clear path for the removal of the trade-in equipment and on the date of de-installation after final inspection and test by the Seller (or Designee) has occurred, the Purchaser must supply licensed tradespeople to disconnect the power and plumbing (including draining and removing and disposing of any hazardous materials including, but not limited to glycol from the chiller and oil from the transformer, as examples.) Any additional costs due to the need to use a larger rig (other than a standard 80 ton rig), as well as any construction activities, street closings, permits, etc., required to de-install/remove the equipment are out-of-scope costs and will be the responsibility of Purchaser. FOR ULTRASOUND SYSTEMS – Purchaser may provide transducers with the ultrasound unit being traded in, but will not receive additional credit for such transducers.

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Ultrasound (US) Warranty Information

Product (New Systems and "ECO" Refurbished Systems Only)	**Period of Warranty**[1]	**Coverage** Principal Coverage Period 8am-5pm Monday through Friday [2]

New US Systems [5,6]	12 months	Full Warranty (parts & labor excluding consumables)	
ACUSON P500[7]	12 months Months 13 through 60	Full Warranty (parts & labor excluding consumables) Limited to 1 tier transducer per year	
ACUSON NX Systems[7]	12 months Months 13 through 24	Full Warranty (parts & labor excluding consumables) Limited to 1 tier transducer per year	
ACUSON Bonsai	60 months	Full Warranty (parts & labor excluding consumables) system & cart	
ACUSON Freestyle	12 months Months 13 through 36	Full Warranty (parts & labor excluding consumables) Limited to 1 transducer per year	
Refurbished US Systems [6]	12 months	Full Warranty (parts & labor excluding consumables)	

The parts warranty below only applies to purchased parts, not to replacement parts provided pursuant to a warranty. Repairs or replacements shall not interrupt, extend, or prolong the term of the warranty.		
Transducers sold with New US Systems	12 months	Wear and Failure only (damage not included)
Transducers sold with ACUSON Freestyle	24 months	Wear and Failure only (damage not included)
Transducers sold with ACUSON Bonsai TEE probes sold with New US Systems	60 months 12 months	Wear and Failure only (damage not included) Wear and Failure only (damage not included)
Ultrasound Upgrades (includes Transducers, TEE probes	6 months	Full Warranty (parts & labor: wear and failure only on transducers & TEE probes)
ACUSON Bonsai System & Cart Batteries	12 months	Wear and Failure only (damage not included)
Consumables	Not covered	

Post-Warranty (after expiration of system warranty) – Replacement of parts prorated only. Does not include labor.		
Spare Parts	6 months	Parts only
Transducers	6 months	Parts only

TEE Probes	6 months	Parts only
Consumables	Not covered	

[5]While product shall be delivered FOB shipping point, seller will maintain risk of loss of purchaser's equipment during travel from the factory to the purchaser's destination and shall be responsible for insuring the equipment during such transit.

[6]Trade-in Warranty policy: **New and refurbished systems sold with trade-ins come with a 12-month warranty**. The warranty is reduced to 90 days if the same system is traded in (e.g., Sequoia to Sequoia trade-in for e.g.). System warranty applies to all transducers, probes and OEMs sold with the system

[7]The warranty terms on the following page apply to the ACUSON P300, P500, Freestyle and Bonsai ultrasound systems included in the Quotation in lieu of paragraph 10 of Siemens Medical Solutions USA, Inc. General Terms and Conditions.

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Detailed Technical Specifications

Artis Q.zen ceil. Combo Card/Rad

Part No./Product	Description
14434277 **Artis Q.zen ceil.** **Combo Card/Rad**	**System description:** The single plane X-ray angiography system for digital acquisitions was designed to meet the requirements of modern angiography and interventional procedures, with a focus on interventional radiology with combined applications. **C-arm ceiling-mounted stand:** System cable outlet at the ceiling carriage, on the patient's left side. - Up to 5 preprogrammed work positions, additional 50 user-definable work positions and 3 direct positions can be stored and recalled from table side. - One single joystick for patient angle oriented operation of C-arm and change of source image distance (SID). - Integrated computerized collision protection - C-arm positioning 0° to the head end and variable up to 135° to the left and right side along the patient longitudinal axis. - Double oblique projections of ±100° in orbital movements and up to 330° (+180°/-150°) in rotational movements. - Variable C-arm speeds up to 25°/s. - Variable focal-spot-to-detector distance between 90 cm and 120 cm. - Isocenter-floor distance 108 cm. - Focus-isocenter distance 78.5 cm. MULTISPACE.T The stand can be positioned on the left or right of the patient or at the head end, or at any angle in between. It can be moved longitudinally to any position along the length of the patient and also has a park position at a sufficient distance from the patient. In Focus allows the projection angle to the patient to remain unchanged when rotating the C-arm around the table. IsoTilt allows the projection angle to the patient to remain unchanged when tilting the patient table (if the tilting function is available). Both In Focus and IsoTilt improve the efficiency of an examination because there is no need to spend time adjusting the projection angle. **Patient table configuration** <u>Table</u> - Direct patient access from all sides, both through the swiveling table and large tabletop cantilever. - Electromechanical release of table swivel at the touch of a button at the table.

Part No./Product	Description
	- Telescopic foot with motor-driven height adjustment. - Maximum patient weight: 250 kg. It is possible to install up to 40 kg of additional accessories, plus a further 100 kg for patient resuscitation. The table can be rotated to ensure quick access to the patient even in emergency situations. <u>Tabletop</u> 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. <u>Mattress</u> Matching, special-foam mattress, 4 cm, incl. a latex-free cover. This visco-elastic comfort mattress reacts to temperature and has the special property of adapting to the individual body shape under the influence of body weight and heat. <u>Application-specific accessories</u> - ECG cable clips - Unilateral armrest: Carbon fiber armrest for cardiology and arm angiography to slide underneath the positioning mattress. - Infusion bottle holder - Instrument tray: Plastic instrument tray to be positioned at the patient table above the patient. It is swivable and height-adjustable, so that it can be positioned directly or sideways above the patient. - Arm holder (1 pair): Two arm holders for comfortable lateral arm positioning along the patient's body. - Hand switch for radiation release and additional control functions. If narrow tabletop is selected: - Head-end holder: Accessory rail plus holder, which is installed at the head end of the narrow tabletop. For attaching hand grips, shoulder supports, head supports, articulated arm supports, and anesthesia curtain. - Handgrips with support The patient can hold on to these hand grips with his arms above his head resting comfortably on the supports. This is beneficial for examinations requiring the arms to be held in a specific position. The two stainless steel hand grips with two radiolucent arm rests (12.5 x 24.5 cm/ 4.9" x 9.65") are mounted to the accessory rails of the head-end holder. It can only be used in combination with the narrow tabletop and with the head-end holder. **Operating modes** <u>Fluoroscopy</u> - Digital pulsed fluoroscopy with pulse frequencies of 7.5 p/s, 10 p/s, 15 p/s, and 30 p/s in 1k/12 bit matrix. Pulse rates of 0.5 - 4 p/s are also possible with CAREvision. - Overlay fade: On-line overlay of the reference image onto the active fluoroscopy. This improves efficiency and safety during interventional procedures because additional information which is clinically necessary can be displayed directly in the live fluoroscopy image. <u>Card acquisition</u>

Part No./Product	Description
	Digital card acquisition technology with frame rates of 7.5, 10, 15, and 30 f/s acquisition, display, and storage in 1k matrix. Digital acquisition technology Digital acquisition technology with frame rates of 0.5 to 7.5 f/s in 1k/12 bit matrix and digital real-time filtration. Single image and serial acquisitions with time-controlled and manually variable frame rate. The 1k image matrix with a bit depth of 12 bits allows an excellent image contrast by using 4,096 shades of grey. Thus, the image quality meets highest expectations in angiography and fulfills all prerequisites for precise diagnostics and safe interventions. Digital Subtraction Angiography: Digital Subtraction Angiography with frame rates of 0.5 to 7.5 f/s, including pixel shift, remask, roadmap, peak opacification for iodine contrast (MaxOpac), and CO_2 contrast (MinOpac); adding of the anatomical background (landmark) from 0 to 100%. Includes the "Advanced Roadmap" additional function which offers the following clinical benefits: - DSA image can be selected as a mask for Roadmap - Zoom can be changed during Roadmap - Catheter and vascular contrast can be changed separately Unexpected patient movements in DSA acquisitions can be corrected easily with Auto Pixelshift. This saves time for the user and improves image quality. **CLEARmap** Special 2D Roadmap operating mode creating a vessel map from a DSA-scene using Maximum Opacification technique. As an additional operating mode, you can also decide to pick one frame out of a DSA run (i.e. for venous access in Roadmap). This provides improved image quality compared to conventional Roadmap and reduces x-ray dose and contrast media. **CLEARmatch** Automatic/Online pixel shift processing for most accurate subtracted image display during Roadmap and DSA based on real time movement detection and compensation. Six degrees of freedom – vertical, horizontal, rotational, zoom and shearing movement (left and right) - allowing highest possible efficacy. In order to show the most recent information in raw format, the pixel shift operation is applied to the mask image. This optimized way of pixel shifting ensures a perfect match of Roadmap image and native fluoro image, being shown at the Assist monitor. **CARE package** ALARA principle Siemens follows the ALARA principle: "As Low as Reasonably Achievable"; the CARE package (Combined Applications to Reduce Exposure) was developed based on this research and development principle to protect the examiner and the patient. Dose saving

Part No./Product	Description
	- CAREfilter: Intelligent control software that minimizes X-ray dose. During fluoroscopy and acquisition, special copper prefilters are automatically inserted into the X-ray beam depending on current X-ray transparency, which is calculated continuously. This is necessary to ensure that the optimal prefilter value is always active. This automation makes work easier for the user because the optimal filter setting need not be adjusted manually for each case. The adaptive Cu prefiltration has five steps (0.1, 0.2, 0.3, 0.6, 0.9 mm) and is used to lower the reference air kerma and improve radiation quality by reducing the low-energy X-ray radiation. - CAREvision with zen30HDR detector: Pulsed fluoroscopy with additional, reduced pulse rates of 0.5, 1, 2, 3, 4 p/s. Adaptation of pulse rate to the current application requirements for significant reduction of radiation exposure, especially during interventional procedures. - CAREprofile: Radiation-free positioning of the primary and semi-transparent diaphragms by means of graphic display in the LIH (Last Image Hold). Collimator shutters and semi-transparent filters can be adjusted as a graphical overlay on the last-image-hold without any need for fluoroscopy or radiation. - CAREposition: Radiation-free object repositioning by means of graphic display of the X-ray center beam and image edges in the LIH image. With CAREposition it is possible to reposition the object under visual control without radiation. - In case of table movements, the current position of the central beam and the image edges are superimposed on the LIH image as orientation points. - Low dose acquisition: enables dose savings of up to 67 % during the examination. The Low Dose Acquisition protocol can be released with a separate pedal on the footswitch. <u>Dose monitoring</u> - CAREwatch: Display of the measured dose-area product and the calculated patient reference air kerma on the flat-screen display. Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing for dose acquisition. Configurable screens on the data display and imaging system monitor: During fluoroscopy: Reference air kerma rate. During fluoroscopy interval: Accumulated reference air kerma or dose-area product, or percentage of the reference air kerma limit (total from fluoroscopy and acquisition). - CAREguard: Monitoring the reference air kerma. If the accumulated reference air kerma exceeds one of the three configurable limits, a warning appears on the live display and tableside on the touchscreen control. This allows ideal monitoring of the accumulated reference air kerma during the examination. - CAREmonitor: Special model-based monitoring of the measured skin entry dose, taking into account the geometric conditions of the system (actual device angulation, table position, patient weight, patient size). It then continually displays whether the skin entry dose applied to a specific region of the patient's body exceeds a specific configurable upper limit. CAREmonitor continually calculates and displays the actual accumulated skin entry dose as a portion of this upper limit. This helps the user to detect a potential patient hazard at an early stage. The patient is therefore better protected against the damaging effects of radiation. <u>Dose documentation</u> - CAREreport: Dose information as part of the DICOM Structured Report. After each examination, the information is available in DICOM format and can be sent to a DICOM archive together with the image data, for example. Saving dose information in DICOM format also enables flexible analysis and further processing via a DICOM-capable analysis software/database. - CARE Analytics: Standalone PC program for analyzing doses in angiography, CT, and radiological examinations. The data can be exported to statistics programs such as Microsoft Office Excel and SPSS for further analysis. CARE Analytics is available for download from the Siemens Intranet.

Part No./Product	Description
	CLEAR MAX CLEAR MAX enables maximized image quality through real-time processing of the image data without increasing the radiation dose, enabled by new computer hardware and algorithms. This results in improved contrast and sharpness for better visualization of small vessels, devices, tissue and bones at the same dose level. - CLEARpulse optimizes the X-ray pulse in two ways: the high pulse power allows for additional filtration to reduce radiation. In addition, CLEARpulse shortens the X-ray pulse through the use of grid-pulsed flat emitter technology in concert with a high anode rotation speed. The required X-ray energy can be provided in a shorter period of time, thereby shortening the X-ray pulse by up to 43% at constant tube voltage. Moving objects like coronary arteries can be visualized sharper and with less blurring artifacts. - CLEARcontrol: The new histogram analysis provides a more homogeneous image impression by harmonizing over- and underexposed areas of the image. This is done fully automatically, thus eliminating any further manual user corrections through windowing. - CLEARview: Dose-dependent filtering of the image data efficiently suppresses image noise, enabling clear, sharp images, even for low-dose acquisitions. - CLEARvessel: Every pixel is analyzed in real time, and vessel edges are shown in high contrast without adding noise to the image. - CLEARmotion: Fine moving structures, such as small vessels and guidewires, are detected in the image and motion artifacts are suppressed efficiently. The visibility of small moving vessels and guidewires is improved significantly during fluoroscopy. In addition, there is Dynamic Density Optimization (DDO) for on-line harmonization of native series and single images. **Image generation** <u>X-ray generator</u> Microprocessor-controlled high-frequency X-ray generator with automatic dose rate control. - Power output: 100 kW at 100 kV (IEC 60601-2-7 and IEC 60601-2-54). - SID tracking: Automatic tube current adaptation to focal-spot-to-detector distance. - CAREmatic: Automatic X-ray control system for fully automatic calculation and optimization of exposure data based on fluoroscopic data. - Patient transparency monitoring. - Tube load monitoring with indication in the live display. The optimal X-ray parameters depend on the transparency of the patient at the current angulation, measured during fluoroscopy. These parameters are continuously calculated and updated. Test shots are no longer required. This ensures superior image quality and minimum radiation exposure for user and patient with every exposure release. <u>GIGALIX 125/40/90 - X-ray tube assembly</u> Dual-focus high-performance X-ray tube assembly with unique flat emitter technology for generating extremely high tube currents of max. 250 mA in fluoroscopy and 1000 mA in acquisition. This provides very good image quality even with heavier patients or steep angulations. The focus is always quadratic and permits outstanding perceptibility of small structures with a nominal focus of 0.4/0.6. The anode has a high heat storage capacity of 5.2 MHU and the metal center tube with liquid bearing technology allows a maximum cooling power of 1520 kHU/min. This means that pauses are not required during radiation, even for lengthy procedures. The X-ray tube is almost silent, which is an additional benefit for patient and user.

Part No./Product	Description
	zen30HDR Flat Detector (High Dynamic Range) The flat detector is based on a new crystalline silicon technology. The active sensor matrix enables strengthening of the signal directly at the pixel, reducing the electronic noise especially for fluoroscopy. Catheters and vascular prostheses can be displayed with extremely low dose, reducing radiation exposure for the patient and personnel. It is particularly beneficial for complex procedures with long fluoro times and when treating children. 160 µm pixel arrays provide highest spatial resolution of up to 3.1 LP/mm and excellent contrast. The detector features 16-bit analog-to-digital conversion, resulting in an extremely high gray scale resolution of 65,536 gray scales. The extremely short readout time of the detector (2 ms) opens the possibility of higher frame rates in the future. Fluoroscopy as well as image acquisition are always done in 1k matrix and 16 bit gray scale resolution with high detail visibility. Acquisition frame rates of up to 60 f/s are possible. Usable input formats: - Overview: 26.1 cm x 28.7 cm; diagonal 39 cm. - Zoom 1: 22.5 cm x 22.5 cm; diagonal 32 cm. - Zoom 2: 18.7 cm x 18.7 cm; diagonal 26 cm. - Zoom 3: 14.3 cm x 14.3 cm; diagonal 20 cm. - Zoom 4: 11.3 cm x 11.3 cm; diagonal 16 cm. - Zoom 5: 7.2 cm x 7.2 cm; diagonal 10 cm. The compact design with integrated collision protection provides maximum C-arm angulation range for excellent patient access. Motorized adjustment of the detector-patient distance. The grid can easily be removed, saving the user time in examinations not requiring a grid. For example in pediatrics, where dose reduction is especially important. **Collimator** Compact multileaf collimator with rectangular blade, wedge-shaped finger filters for DSA and cardiological applications and graduated filter. - Independent rotation and shift of filter blades - Automatic synchronous rotation of detector and collimator unit to compensate image rotation at the different examination positions of the support stand. - Rotation also possible via table side control enabling upright images of objects or body parts not aligned with the table e.g. arms. - Manual rotation of the detector and collimator unit using the control right on the detector housing. - Five-step adaptive Cu pre-filtration (CAREfilter) to reduce the equivalent skin dose and improve radiation quality through dose saving for the soft radiation parts. Filter steps: 0.1; 0.2; 0.3; 0.6; 0.9 mm Cu. Electronics unit with DIAMENTOR dose measurement chamber integrated in the collimator housing, for acquisition of the dose-area product and the calculated patient entry air Kerma at the patient entrance reference point (CAREwatch). StraightView

Part No./Product	Description
	The flat detector and the multileaf collimator are installed on a motorized rotating turntable on the C-arm. They automatically line up with the table swivel, thus ensuring upright images of objects which are in line with the table. The flat detector and multileaf collimator can also be rotated together at any angle relative to the table, enabling upright presentation and collimation of objects which are not in line with the table. **Image processing** - Image display as positive and negative, windowing, contrast and brightness control, electronic display shutter, image shift (roaming), vertical and horizontal image inversion, magnifying glass, and zoom functions - Storing of single images as reference images for acquisition and fluoroscopy - Quantification: angle and length measurements, automatic and manual calibration - Text functions: user-definable image annotation, free annotation or by means of text components, comments line for the image, R/L display - Fast and direct access to all series, single images, reference images, and photo file images via MULTIMAP. Access possible both in the examination and in the control room for displaying or post-processing images **Imaging system** Dual architecture In order to provide highest level system availability, the imaging system consists of two independent computer systems that manage central tasks such as real-time image processing during fluoroscopy or acquisition as well as post-processing and networking functionality separately from one another. This ensures the best possible system performance and availability. Image storage capacity 25,000 images in 1k/12 bit image matrix. This can be optionally extended to 50,000 / 100,000 images. **Image export and networking** DVD/CD burner DVD drive for automatic digital image storage in the background on DVD-/CD-ROM for off-line data exchange in DICOM format. Networking - Network interface (1000 BaseT) with the following integrated DICOM services: - DICOM Send: Sending of images into the DICOM network: The DICOM Send function enables fully automatic transfer of generated image data to a DICOM archive and/or a DICOM workstation. The user can perform his examinations without interruption, while the system is fully automatically transferring the images to the archive scene by scene. This is a background process, and thus does not interfere with the ongoing fluoroscopy or acquisition. - DICOM Storage Commitment (StC): Feedback from the image archive. The DICOM StC function automatically gives feedback on whether the generated image data were successfully transferred. This provides the necessary certainty to the user before deleting the acquired images locally in the imaging system.

Part No./Product	Description
	- DICOM-Query/Retrieve: Retrieval of archived images from a digital archive or from a workstation: Already archived image data from a previous examination can be fully retrieved and is then available for review and processing. The user can request CT or MR system images from the archive and display the image in the examination room. There is no need for a separate workstation. - DICOM Structured Report: All the quantification results obtained on the system as well as all dose information on the individual radiation releases can be saved in DICOM SR (enhanced SR) format and transferred to a DICOM network. Note concerning DICOM interface(s) The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s). Functionalities across interfaces with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility. A modification of the interface that might be required is not included in the offer; e.g. for the rare case that available configurations are not sufficient. With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply. **Display and display suspension** Displays in the exam room Live and Assist displays are 19" TFT color and gray scale flat-screen displays with high luminance and extended viewing angle. - Screen size: 19" (48 cm) - Resolution: 1,280 x 1,024 (pixels) - Excellent brightness for the entire service life: 400 cd/m² at a contrast ratio of 1000:1 - Flicker-free and distortion-free image display - Ambient light sensor for optimum adaptation of the image display to the room brightness Reference images are shown on the Assist display. Data for device and table position, dose data, and system messages are displayed in the examination and control room on both the live and the Assist display. Displays in the control room 19" high-contrast display for live image display in the control room is included as a desktop version. Display suspension Ceiling-mounted, swiveling, rotating, and height-adjustable display suspension system with longitudinal travel. It features two 19" high-contrast TFT displays for live and reference image display in the examination room (Standard configuration – unless modified). **Operation** *syngo* The intuitive syngo operating elements allow for managing the whole process from preparation of the patient to image post processing in a safe, reliable, and time efficient way. Footswitch

Part No./Product	Description
	A 4-pedal wired footswitch to release fluoroscopy, exposure, and table brake as well as a configurable additional function is included as standard. In the examination room For an ideal workflow, full operation capabilities for the system can be accessed directly at the patient table. These include complete system operation through modular control elements for controlling C-arm movements, the patient table, and the multileaf collimator. *syngo*-based touchscreen with multi-functional joystick for operation of the imaging system, including post-processing and quantification as well as selection of the organ programs. The touchscreen is specifically configurable to individual clinical requirements. This means that the user can operate the system on their own without having to leave the examination room if this is deemed necessary by the situation. In the control room Standard Siemens syngo control via country-specific keyboard and mouse for all imaging system functions such as image post-processing, storing, and configuring of organ programs. **Smart Remote Services** Prepared for Smart Remote Services (during warranty, then with service contract): - Hardware and software remote diagnosis. - System remote configuration, e.g. adding of a DICOM node. - Early warning system ensuring system operation. ***syngo* Evolve** *syngo* Evolve is a service feature that is offered as a separate sales option. It is a key component of our upgrade strategy and allows you to take advantage of technological advancements. **Customer Care – the customer care solution from Siemens Healthcare** From the moment you purchase your Siemens system you will benefit from many services that are offered by "Customer Care"*. These include: - Initial application training - Interactive e-learning for various applications - Free customer magazines - Arrangements for clinical training via a global network - Free trial licenses You will find information on our e-learning program and further details on general "Customer Care" services on the Internet. * The availability of "Customer Care" services may be restricted for some systems. **User Training** Siemens recognizes the significant investment you are making in purchasing a new imaging system and are determined that you are able to realize the full capability of this new system. Siemens clinical applications training ensures you have every opportunity to fully utilize your new system. Content of user training: Handover Training and Follow-up Training - Introduction to the functions, options, and handling of the Angiography system

Part No./Product	Description
	- Instruction on the use of the Angiography system together with modern, highly-developed applications Delivery & duration of the user training varies and may be country specific so for additional information please contact your local Siemens representative.
14432948 **Automap**	Automap optimizes the procedure workflow, especially during interventions. A selected reference image displaying the needed medical information (e.g., before dilatation) is used as the basis for moving the system to the correlated position automatically. The intervention can be continued immediately without manually repositioning the patient. On the other hand, the system is able to select a reference image for the current device position. In case of changes in device position, this enables the user to see the corresponding reference images quickly and safely.
14434142 **narrow TT thick mat. ins of std. TT**	The visco-elastic comfort mattress for narrow tabletop reacts to temperature and has the special property of adapting to the individual body shape under the influence of body weight and heat.
14432943 **Vascular analysis**	Measuring program integrated in the imaging system for objective, precise and reproducible evaluation of vessels. - Automated contour detection - Determination of degree of stenosis - Automatic and manual reference diameter determination - Automatic and manual calibration methods - Distance and angle measurement The Vessel analysis allows precise quantification under sterile conditions, direct at table side with the touchscreen control. This speeds up the intervention and makes the procedure safer for the patient. The reports can be easily stored in the patient folder for documentation and to show the correct analysis of dilatations etc. Especially to be used for vessel sizes between 0.5 mm and 50 mm.
14432942 **LV Analysis**	Scientific measuring program integrated in the imaging system for evaluation of the functionality of the left ventricle. - Automated and manual contour detection - Automatic end-diastole/end-systole detection - Calculation of ejection fraction, volumes, and indices (area, length, and Simpson methods) - Centerline, radial and regional wall movement analyses - Automatic and manual calibration methods - Distance and angle measurement
14432952 **syngo Security Package (SW lic.)**	This SW license enables your system to support enhanced user and system management, including: - User authentication to prohibit unauthorized access - Privileges to define user/role-based functionality - Permissions to control data access - Audit trails to log system and data access
14434231 **Sec. operation in the control room**	Rail profile (short table attachment) for table operation: - Weight: 1.4 kg - Rail length: 12 cm - Width: 20 cm - Height: 14.5 cm

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	Rail profile (long table attachment) for device operation (with or without table operation): - Weight: 2.8 kg - Rail length: 25 cm - Width: 20 cm - Height: 14.5 cm
14432950 **DICOM RIS-Modality Worklist**	Note concerning DICOM interface(s) For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used. The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s). Functionalities across interfaces with/between partner systems require explicit validation since the interpretation of the interface by the partner/target system is not part of the product's responsibility. A modification of the interface that might be required is not included in the offer, e.g. for the rare case that available configurations are not sufficient. With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.
14434201 **OEM recording system interface**	Cable connection to the OEM measurement system for ECG triggering. Necessary requirement for ECG-triggered Dyna CT card and for ECG triggered fluoroscopy.
14434176 **Large Display video controller 18**	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). Important images for diagnostic purposes can be displayed to scale in their original size on the Large Display. Less important, non-diagnostic information can be displayed at a reduced size by the interpolation algorithm for image information integrated in the video controller. An enlarged or reduced display can be selected individually via the display configurations at the fully integrated tableside control. The video controller then takes over interpolation and adaptation of image size. In waveform images with high resolution, such as for electrophysiological recording systems, the curves are displayed free of artifacts because of a special interpolation algorithm.
14440573 **Add 19" display for LD (rear mount)**	The Display is attached to the rear of the DCS Large Display. Mounting brackets are already available. Flat display in TFT technology with high luminance and extended viewing angle. - Screen size 19": 48 cm - Resolution: 1280 x 1024 (pixels) - Excellent brightness for the entire service life: 400 cd/m² at a contrast ratio of 1000:1 - Viewing angle (horizontal and vertical) 176 degrees - Flicker-free and distortion-free image display - Ambient light sensor for optimum adaptation of the image display to the room brightness
14443012 **LD High Contrast panel size 55"**	**Large color flat display** The IPS panel technology combined with the large display area represents a new dimension in medical image display.

Part No./Product	Description
	This technology combines high luminance and high contrast, consistent for all viewing angles. It provides an incomparable image impression especially for gray scale images. For the diagnostic color display in TFT technology, with high luminance and extended viewing angle, the gamma curve has been adapted particularly for gray scale display according to the CIE / DICOM recommendation. Technical specification for the 55” display: - Display size: (W x H) 55“, 121 cm x 68 cm - Screen size: 55“, 139 cm - Resolution: 3840 x 2160 (pixels); 8 megapixels at 4 x HD - Color depth: 1.07 10^9 colors - Excellent brightness over the lifetime: 400 cd/m² at a contrast ratio of 1450:1 - Flicker-free and distortion-free image display Backup concept The Large Display has a backup concept to ensure against power supply failure (2 separate power supplies for the left and right sides of the Large Display).
14465217 **Large Display diagn. protection**	The high-quality 55” laminated glass protective screen protects the panel of the monitor against mechanical damage and fluid ingress on the front. The protective screen is suited for clinical image evaluation. Features: - The laminated glass enforces high mechanical strenght and resistivity against mechanical impact. - Special coating reduces reflections for a continuous image quality. - Excellent spectral transmisison of at least 98%. - Screensize: 55" - Weight: approx. 12kg Note: Observe the maximum permissible load of the display suspension. A combination with other options mounted to the display suspension might be restricted.
14455598 **Artis Freestyle Access cable kit**	Preparation for the dedicated ACUSON Freestyle Elite ultrasound system on the Artis to allow for viewing of ultrasound images at the Large Display, transfer of demographic patient information, and mounting of the ultrasound system on the back of the Large Display. The solution works in combination with “ACUSON Freestyle Elite w. Artis Access” ultrasound system (to be ordered separately - not included in this part number).
14434174 **1st Large Display w/o holder**	**Preparation for the large display** The large display area allows for both large display and the free positioning of examination-relevant video signals. The fully integrated tableside control allows for selection from among twelve layout variants. For the diagnostic color display in TFT technology, with high luminance and extended viewing angle, the gamma curve has been adapted particularly for gray scale display according to the CIE / DICOM recommendation.

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	Video signals such as live, assist and reference images, *syngo* X-Workplace, Sensis/recording systems, PACS, HIS/RIS, ultrasound, ECG, external video, endoscope, mapping systems, system and table position, system messages, and dose information can be individually positioned and displayed on the large display, if connected. The extended Roadmap function is included, if DSA is available: - Native live fluoro image during fluoroscopy; otherwise Last Image Hold. - Native live fluoro image during roadmap / subtracted fluoroscopy; otherwise Last Image Hold. - Native live acquisition during DSA acquisition; otherwise native max-fill image. If the dual reference function is available, parallel static reference images are displayed on both reference monitors. **Bypass concept** In case of error, such as controller failure, the large display switches automatically to bypass mode and emergency fluoroscopy is displayed on the large display. **Backup concept** The large display has a backup concept to ensure against power supply failure (2 separate power supplies for the left and right sides of the arge display). Note: The type of large display can be chosen with a separate position.
14434188 **Artis Cockpit - 1 console**	Functionality: - Four screen layouts can be selected with a click of the mouse. - The four screen layouts per monitor can be configured from a previous selection. - The position of the image sources in the layout can be changed via Drag and Drop. Contents A controller with the following technical specifications: - 7 digital video inputs: DVI single link, up to 165 MHz (6 HDMI, 1 DVI-I) - Video bandwidth: Maximum aggregated bandwidth of 360 Mpixels/s - 2 analog video inputs - Network connection: 110/100 Base-T Ethernet port A high-resolution 30“LCD color display corresponding to the medical standard, with high luminance and extended field of view: - Screen size: 29.8" (76 cm) - Resolution: 2560 x 1600 (pixels) - Guaranteed brightness for the entire service life: 400 cd/m² at a contrast ratio of 800:1 (where black = 0.5 cd/m²) - Viewing angle (H, V): 170°, 170° - Calibration according to DICOM (Part 14) standard - Ambient light sensor for optimum adaptation of the image display to the room brightness. Information on connecting third-party systems to the Artis Cockpit When connecting external video signals to the Artis Cockpit, note the following requirements to display images from third-party video sources: - The connection of third-party devices is only permissible if they meet the specifications of the Cockpit interface.

Part No./Product	Description
	- The connection of the Cockpit interface to the Cockpit controller must be performed by a Siemens service technician. - The connection to the third-party device must always be performed by the technician of the third-party company or by the responsible on-site hospital technician. - Siemens cannot assume any warranty for the connection of the third-party device with respect to the image quality and its suitability for diagnosis. - For this reason, it is strongly recommended that the image quality tests prescribed by the third-party manufacturer are performed again prior to use. These tests can ensure that the required image quality is achieved. - The system configurator is responsible for ensuring that the valid versions of the relevant standards are met. Note the following conditions if video signals are to be shown on a third-party provider display: - The display of external video signals depends on the operational state of the Artis system. If the Artis system has a malfunction or is shut down, the display of external video signals is no longer possible. For this reason, do not feed the video signal into the Artis system if lacking the external video signal could result in a hazardous situation. - A third-party provider's unit may be connected only if it corresponds to the specifications of the video interface on the Siemens system. - The connection may only be established by a Siemens service technician. Attention: The connection must be made with fiber-optic cables to ensure that the unit's galvanic isolation is maintained. - A third-party provider's unit must be connected by a technician from the third-party provider or by a hospital technician responsible for the equipment. - It is strongly recommended that a test of image quality be performed by the third-party provider prior to start-up. This test ensures that the required image quality is achieved. - The person placing it on the market is responsible for ensuring that applicable standards are maintained in the current version, e.g. 4 kV insulation Siemens will not be held liable for the inclusion of third-party provider units with respect to image quality and their suitability for clinical diagnosis If an external component is connected to the Cockpit system via a USB port - using a separate keyboard as the operating unit - the following must be observed: - The external component must support the use of a standard keyboard with 104 keys. - If this requirement cannot be met, the third-party device can only be operated directly via the keyboard supplied by the manufacturer of the device. A USB connection between the Cockpit and the external component is then not permissible and therefore operation using the Cockpit *syngo* keyboard is not possible. **These instructions must be followed; otherwise, operating errors and loss of data may result.** Please refer to the Cockpit operating instructions for the key assignment of the *syngo* keyboard and the standard 104-key keyboard.

Part No./Product	Description
E93PM150UAX **Eaton 93PM-150 kW UPS**	Eaton 93PM-150/150 4-Wire UPS Electronics Cabinet: 150kW Frame cabinet with three (3) Power Modules (UPM) configured as a 150kW capacity system specifically for a medical imaging application. 480 volts input / 480 volts output, 4-Wire + Gnd. Double Conversion Topology, Unit efficiency up to 97% (up to 99% with ESS), Unit output rating @ Unity Power Factor, Input current distortion < 3% @ 100% load, Patented ABM Technology, Patented HotSync parallel firmware control, Scalable Architecture, Parallel Redundancy and Capacity capable. Onboard monitoring of UPS status via front panel display is standard. Includes single feed input with three (3) circuit breaker (BIB, MBP, MIS) integrated maintenance bypass in a 14.7" wide right-mounted sidecar. Four (4) internal min-xslot communication card bays. One (1) Power Xpert Gateway UPS Mini-Slot Card (PXGMS) included. Included Services: Start-up (7x24): PLUS One (1) year on-site labor coverage (7x24). UPS Cabinet Dimensions: 36.7”W x 42.0”D x 74.0”H UPS Cabinet Weight: 1,566 Lbs. Eaton 93PM 480Vdc Battery System: One (1) IBC-L Integrated Battery Cabinet consisting of one (1) string of 240 cells (@480Vdc), 40 Batteries, and 500A Circuit Breaker in cabinet. Full load back-up time @ 150kW of 7.1 minutes. Battery Cabinet Dimensions: 32.3”W x 42.0”D x 74.0”H Battery Cabinet Weight: 4,225 Lbs. Eaton 93PM Remote Monitoring Device: Wall-mounted display panel for monitoring the UPS status in the imaging suite when the UPS is located elsewhere in the facility. Requires Power Xpert Gateway Mini-Slot Card for interface with the 93PM UPS (included with the 93PM UPS quoted above). RMP Dimensions: 5.9”W x 0.8”D x 3.2”H RMP Weight: 0.5 Lbs. Eaton Power Xpert Gateway UPS Mini-Slot Card (PXGMS): This card can provide Web/SNMP and Modbus TCP/IP connectivity and functionality for the 93PM UPS system for the purpose of remotely monitoring the status of the UPS via an Ethernet network connection.
14432925 **PERISTEPPING / PERIVISION (Optional)**	Excellent image quality from the abdomen to the feet is due to the fact that adjustable parameters such as acquisition frame rate, measuring fields, position of collimator blades and semitransparent filters are stored specifically for each table position. That way the different X-ray transparencies for abdomen, legs and feet can be compensated and a consistent image quality with best possible contrast is achieved. Just one single injection of contrast media protects the health of the patient and gives the physician an instant, subtracted image display of the peripheral blood vessels. <u>Peristepping</u> Peripheral digital stepping angiography with only a single contrast medium injection under visual control of the bolus flow. C-arm stepping with ARTIS pheno and ceiling mounted systems, table stepping with floor mounted and biplane systems. - Position-dependent variable frame rates - Fully automatic exposure control - Automatic storage of the collimator setting for each step <u>Perivision</u> Peripheral digital stepping angiography with online subtraction display in an examination procedure with only one single contrast medium injection under visual control of the bolus flow. - Only one single automatically acquired mask image for each individual position

Part No./Product	Description
	- Position-dependent variable frame rates - Fully automatic exposure control Automatic storage of the collimator setting for each step

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ACUSON SC2000 (with ICE Options)

Part No./Product	Description
11508908 **SC2000, ICE BASE CONFIGURATION**	The system mainframe comes standard with excellent 2D & 4D imaging capabilities to provide the ideal clinically relevant images for all your adult and pediatric exams. From a quantification and workflow perspective the world-class automation and AI-powered knowledge-based measurements provides the ability to increase exam quality by reducing variability while shortening exam time for your routine echo and your echo-guided procedures. PRIME Configuration Provides the premier software and hardware to support all standard imaging and advanced applications related to 2D and 4D imaging, along with true volume TEE imaging capabilities. IN Focus Coherent Technology IN Focus provides the next generation real-time Coherent Image Formation technique that provides dynamic transmit focus at all depths for excellent 2D and volume imaging without user intervention. This technique allows each transducer to reach its highest beamforming potential in terms of detail and contrast resolution without compromise to frame rate. Native TEQ dynamic ultrasound technology (NTEQ) NTEQ dynamic ultrasound technology offers a sophisticated solution for continuous 2D gain optimization capabilities. NTEQ dynamic ultrasound technology significantly reduces time spent optimizing imaging performance, while improving the consistency and quality of diagnostic exams. Pediatric Imaging package The Pediatric Imaging package enables transthoracic pediatric imaging and a comprehensive calculation package. eSie Left Heart measurement package eSie Left Heart package utilizes AI-powered knowledge-based technologies specifically designed to identify and measure contours on a typical transthoracic exam of left ventricle and left atrium in an automated manner. The algorithms are trained on a large image database annotated by clinical experts and provide quick and easy measurements of EDV, ESV and EF for both LV and LA. The application is trained on apical 4CH and 2CH transthoracic 2D echo views. eSie Left Heart package enables improvement in efficiency and workflow in a routine clinical setting. eSieScan workflow protocols eSieScan protocols guide the operator through the clinical workflow steps required to complete a variety of exams. Using protocol-driven workflow ensures a consistent, repeatable process with reduced keystrokes, thus leading to more accurate outcomes. With the ability to customize the protocol to a disease state, physician preference, or quality requirements, a user can structure the protocol to meet the lab's needs. Workflow protocols include automated features for:

Part No./Product	Description
	1. Automatic mode and measurement activation (4D, color Doppler, spectral Doppler, Thin Volume or 2D, M-mode) 2. Transducer switching (necessary to go from 2D imaging to 4D imaging) 3. Adult and Pediatric Echo imaging
11289536 SC2000, ACUNAV VOLUME ICE BUNDLE	SwiftLink Volume catheter connector The SwiftLink Volume catheter connector is the physical connection from the ACUSON AcuNav Volume ICE ultrasound catheter to the ACUSON SC2000 PRIME system enabling volume imaging for ICE procedures.
10440506 SC2000, ESIEMEASURE PKG	The eSie Measure workflow acceleration package is an innovative AI-powered application that provides semi-automated measurements for routine echo exams, improving efficiency and consistency for end users. Based on a knowledge base of over a thousand expert-traced datasets, the eSie Measure package improves accuracy and reproducibility. With a push of a button, the eSie Measure package semi-automatically generates reliable measurement data for 2D, M-mode and spectral Doppler, increasing consistency of each exam, while reducing key strokes. eSie Measure 2D provides one-click measurements in B-mode (2D) imaging. eSie Measure M-Mode provides one-click M-mode Measurements including the Right Ventricle in end-diastole, LV septal wall measurements in end-diastole and end-systole, Left Ventricle measurements in end-diastole and end-systole, and LV posterior wall in end-diastole and end-systole. In addition, measures Left Atrium at end-systole and Aortic root diameter. eSie Measure Spectral Doppler provides one-click measurements for Peak Velocity, Peak gradient, Velocity time integral (VTI), Mean gradient, and Deceleration time for specific anatomic areas. eSie Measure one-click measurements may be entered into the worksheets and report templates.
10433821 SC2000, TRNSDCR, 4V1C, MP	*Supports the following imaging modes:* - *2D* - *Color Doppler (CDV, DTV, DTE)* - *M-mode* - *Spectral Doppler (PW, CW, PW DTI)* - *LVO contrast*
11286942 SC2000, ECG LEADS, TIR, USA	
11286976 SC2000, STRESS ECHO EXT ADP CBL TIR	The aux cable will work for stress echo as well as for connecting the external monitor signal to the system.
11288668 SC2000, 2D ICE BUNDLE	2D SwiftLink Catheter Connector SwiftLink catheter connector is the physical connection from the ACUSON AcuNav ultrasound catheters (8F and 10F) and SoundStar® catheter to the ACUSON SC2000 PRIME system enabling imaging for Intracardiac Echo (ICE) procedures.

Part No./Product	Description
	CARTOSOUND® Communication Package CARTOSOUND® enables Ethernet communication between the ACUSON SC2000 PRIME ultrasound system and the Biosense Webster Carto system with the CARTOSOUND® Module.
10440491 **SC2000, ESIE LVA (Optional)**	eSie LVA An AI-powered volume quantitative analysis package designed specifically for the left ventricle with enhanced workflow. It includes Ejection Fraction, Volumes and Mechanical Dyssynchrony tools using real-time volume imaging for up to three consecutive heart beats. Also includes the following: **Automated reference plane extraction** The system automatically generates and displays images that are aligned to standard 2D views from a volume dataset in the LVA application and Rapid Stress volume stress echo application. From an apical volume dataset, the extracted reference planes correspond to the short axis, apical 4, apical 3 and apical 2 chamber views. **Automated volume contouring** From the volume dataset, the system automatically traces the endocardial surface from the entire volume and displays the contours on the multiple reference planes from which values such as Ejection Fraction (EF) and volume data are calculated. **Parametric static maps of minimum volume and maximum volume** Using the 16 or 17 Segment map options, the mechanical contraction time pattern within the myocardium is displayed. On a static bulls-eye, the color indicates when that region reaches its minimum or maximum volume. The volume curve provides a visual indication of global dyssynchrony. The user can isolate the segments to determine regional dyssynchrony. **Dynamic time to minimum volume and Dynamic time to maximum volume** This application analyzes and displays delayed contractility on a segment-by-segment basis using a parametric display. It provides analysis of all the frames obtained during the cardiac cycle. On a dynamic bulls-eye display, the color indicates when the region reaches its minimum and maximum value **Volume navigation tool** **Single V tool** An intuitive navigation tool that allows the user to navigate the volume data set using the reference planes for improved workflow. It allows for rapid orientation of the display to the anatomical view of interest. **SieSync volume synchronization Tool** A tool to synchronize the extracted reference plane to the exact view on the volume.
10853305 **SC2000, ADV VASCULAR IMAG BNDL**	9L4 transducer supports the following features: **B-mode Imaging** • Three harmonic frequencies: H6.5, H8.0, H9.0 MHz

Part No./Product	Description

(Optional)	• One fundamental frequency: 5.0 MHz
	
	Color Doppler Imaging
	• Color Doppler Velocity (CDV)
	  • Three frequencies: 4.0, 5.0, 6.5 MHz
	• Color Doppler Energy (CDE)
	
	Spectral Doppler
	• PW Spectral Doppler
	  • Two frequencies: 3.5, 4.0 MHz
	  • HPRF
	• PW Doppler Tissue Imaging (DTI)
	  • Two frequencies: 3.5, 5.0 MHz
	
	Advanced SieClear Spatial Compounding (ASC)
	Advanced SieClear spatial compounding offers image quality with unrivaled detail and contrast resolution. Advanced SieClear compounding is a real-time technique which applies multiple lines of sight. The combination of multiple images with different steering angles results in speckle reduction and enhanced contrast resolution. Available on the 9L4 transducer and operates on all available frequencies.
	
	Vascular Imaging Package
	The Vascular Imaging Package supports vascular imaging and measurements for the following transducers and exams:
	• 4V1c: aorta-iliac; aorta renal
	• 9L4: carotid; peripheral vascular (arterial, venous)
	• 6C1 HD: abdominal vascular

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Artis Access Freestyle Elite- for Artis Q, Q.zen, zee, zeego w/ Siemens DCS

Part No./Product	Description
11002300 ACUSON Freestyle Mainframe	Standard features include: Supports cable-free transducers One (1) transducer cable adapter One (1) battery for cable-free transducers High resolution flat panel display A/C and battery operation Two (2) charger bays for cable-free transducer batteries Push button rotary control* * Push functionality is only compatible with release 4.0 systems
11004071 FREESTYLE, 4.1, ARTIS KIT, VD11	Included with the External Antenna is an installation kit that provides mechanical hardware for the antenna and the ACUSON Freestyle Elite ultrasound system to be mounted to the rear of a Siemens Healthineers Artis VD11 Large Display. It also provides a DisplayPort - DVI cable to enable the ACUSON Freestyle Elite ultrasound system ultrasound image to be shown on the Large Display.
11004370 FREESTYLE, TRNSDCR, L8-3	- Array type: Linear - Number of elements: 128 - Depth 1.5-9.0 cm - Frequency bandwidth: 3.0-8.0 MHz - Footprint: 38.4 mm x 5.0 mm - B-mode, Color Doppler, Amplitude Doppler - Needle Guide Kits available Suggested exam types: Abdominal, Pediatric, Small Parts, Peripheral Vessel and vascular, Musculoskeletal.
11003759 FREESTYLE, STAND ALONE CHARGER KIT	Additional accessory - can be sold with any ACUSON Freestyle System

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ARTIS Q/Q.ZEN/ZEE CEILING
TYPICAL ROOM PLAN

The intended use for this Cut Sheet is to communicate the spatial requirements as well as the basic architectural, electrical, structural, and mechanical requirements for this piece of imaging equipment. The information provided in this document is for reference only, during the pre-planning stage, and therefore does not contain any site specific detailed requirements. This information is subject to change without notice. Federal, state and/or local requirements may impact the final placement of the components. It is the customer's responsibility to ensure that the final layout and placement of the equipment complies with all applicable requirements.

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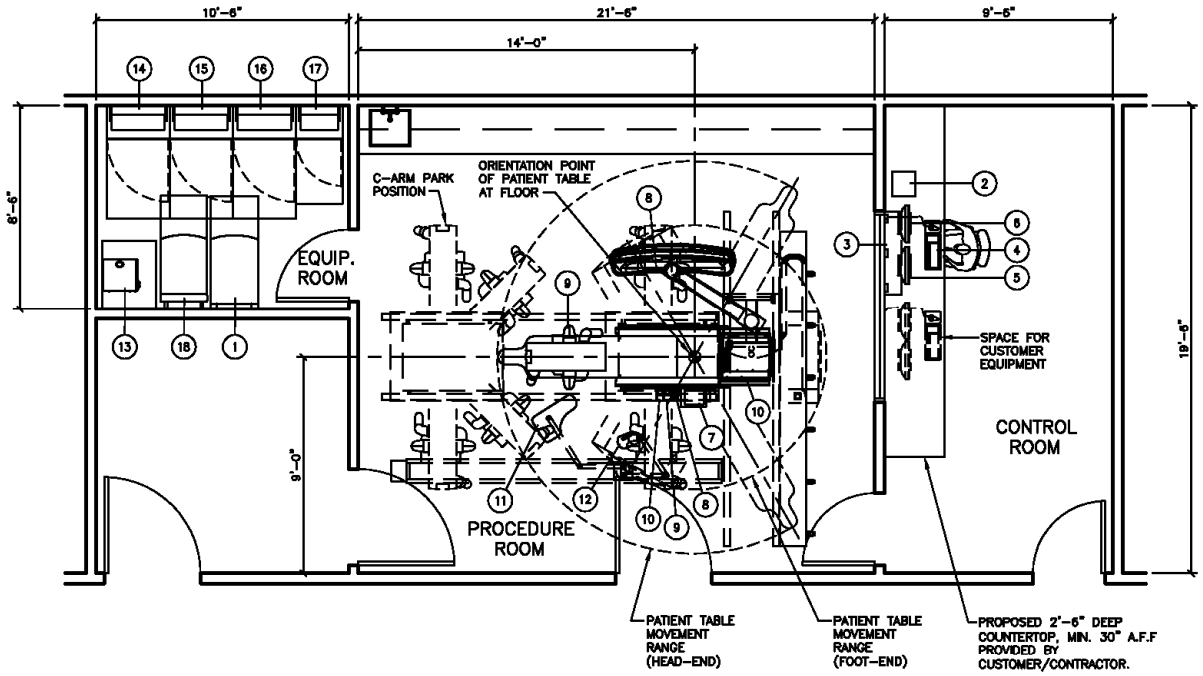
ARTIS Q/Q.ZEN/ZEE CEILING

TYPICAL ROOM PLAN



TYPICAL PLAN SCALE: 1/8" = 1'-0"

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES) W	D	H	REMARKS
1	IMAGE SYSTEM	IS	331	4,347	23	37 1/2	28 3/8	MTD. ON CASTERS
2	ACE (ARCHIVE CONTROL EXTENSION)		13	N/A	12 1/4	11 3/4	4	MTD. ON CONTROL COUNTER
3	CONTROL ROOM DISTRIBUTOR	DI	64	342	41 1/2	8 1/4	16 1/8	MTD. ON WALL
4	KEYBOARD		2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
5	19" MONOCHROME LIVE DISPLAY		15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
6	19" MONOCHROME REFERENCE DISPLAY (OPTION)		15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
7	TABLE CONTROL MODULES		13.8	---	16 1/2	8 3/4	3 1/2	ON TABLE OR TROLLEY
8	DCS LARGE DISPLAY (OPTION)	D1	407	1,706	167	45 3/8	50 3/4	CEILING SUSPENDED
9	ARTIS ZEE / Q / Q.ZEN CEILING C-ARM STAND	P1	1,994	682	---	---	---	C-ARM CEILING SUSPENDED
10	PATIENT TABLE (OR TABLE)	T1	1,169	683	---	---	---	TABLE FLOOR MOUNTED
11	UPPER BODY RADIATION SHIELD 4 M TRACK (OPTION)		196	---	---	---	---	TRACK MOUNTED
12	MAVIG R96 O.R. LAMP (OPTION)		48	---	---	---	---	
13	KLUVER COOLING UNIT	CU	93	13,649	18 3/4	15 1/2	18 3/4	FLOOR OR SHELF MOUNTED
14	POLYDOROS A100 GENERATOR CABINET	PU	723	4,094	31 1/2	17 1/8	87	FLOOR MOUNTED
15	CABLE CABINET	CC	265	---	31 1/2	17 1/8	87	FLOOR MOUNTED
16	SYSTEM CONTROL CABINET	SC1	655	5,460	31 1/2	17 1/8	87	FLOOR MOUNTED
17	SYSTEM CONTROL CABINET (O.R. TABLE ONLY)	SC2	276	682	23 1/2	17 1/8	87	FLOOR MOUNTED
18	LARGE DISPLAY CONTAINER FOR DCS LARGE DISPLAY (OPTION)	DC	253	1,535	23	37 1/2	28 3/8	MTD. ON CASTERS

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ARTIS Q/Q.ZEN/ZEE CEILING
SPECIFICATIONS

TRANSPORT/STORAGE FLAT PANEL DETECTOR

IN SYSTEMS WITH FLAT PANEL DETECTORS, THE DETECTOR IS REMOVED FROM THE STAND FOR TRANSPORT TO THE CUSTOMER. THE LIMITED TRANSPORT AND STORAGE CONDITIONS APPLY FOR THE DETECTOR.

FLAT PANEL DETECTOR:

TEMPERATURE RANGE: 14° F TO 131° F
RELATIVE HUMIDITY: 20% TO 95% NON CONDENSING
AIR PRESSURE: 700 hPa TO 1060 hPa

POWER REQUIREMENTS

POLYDOROS–M / POLYDOROS A100 GENERATOR (PU1):
480 VOLTS, 3–PHASE, 162 KVA, 100 AMPS, 60 Hz

SYSTEM CONTROL CABINET (SC1):
480 VOLTS, 3–PHASE, 8.5 KVA, 50 AMPS, 60 Hz.

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT (5 GAUSS)	X–RAY TUBES, B/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES
0.2mT (2 GAUSS)	SIEMENS CT SCANNERS
0.15mT(1.5 GAUSS)	COLOR MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT(0.5 GAUSS)	X–RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS

MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY

STORAGE

TEMPERATURE RANGE: –4° F TO 140° F
RELATIVE HUMIDITY: 10% TO 95% NON CONDENSING
AIR PRESSURE: 500 hPa TO 1060 hPa

PACKAGING & TRANSPORT PATH

LARGEST CRATE WITH PACKING: 103.6"W x 46.5"D x 81.5"H, 2,590 LBS.

LARGEST SINGLE PART WITH TRANSPORT CARRIAGE (MIN. DOOR OPENING) 101.6"L x 40"W x 77.2"H, 2,006 LBS.

MIN. CORRIDOR WIDTH: 82.7"

SYSTEM POWER SUPPLY REQUIREMENTS

WIRING SYSTEM:	480Y/277V, 3 PHASE, 5–WIRE, 60 HZ.
MINIMUM POWER SUPPLY:	225 KVA DISTRIBUTION XFMR, LESS THAN OR EQUAL TO 3% IMPEDANCE
X–RAY GENERATOR MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE)	162 KVA
X–RAY GENERATOR LONG–TIME RATING: (FLUOROSCOPY)	8 KVA
LINE IMPEDANCE	≤ 120 (mΩ)
MINIMUM CIRCUIT BREAKER SIZE: (BASED ON N.E.C. 517–73)	100 AMPS
POWER QUALITY PARAMETERS	
MAXIMUM LINE VOLTAGE VARIATION	±10% OF SYSTEM VOLTAGE
PHASE IMBALANCE:	2%
FREQUENCY VARIATION:	± 1 HZ
SYSTEM GROUNDING IMPEDANCE:	0.25 OHMS MAX.

POWER SUPPLY NOTES:

1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.
2. SIEMENS HEALTHCARE REQUIRES THAT THE INCOMING POWER MEETS THE POWER QUALITY REQUIREMENTS.

REMOTE SYSTEM DIAGNOSTICS

SIEMENS REMOTE SERVICES (SRS) REQUIRES A CONNECTION BETWEEN THE SRS REMOTE SERVER AND SIEMENS SYSTEMS VIA REMOTE LOCAL AREA NETWORK ACCESS, TO ENSURE THE UPTIME OF YOUR SYSTEM.

THIS SERVICE REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:
1. (PREFERRED) VPN – WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE.
2. (OPTIONAL) *SRS ROUTER* – CONNECTED TO ANALOG PHONE LINE VIA *ANALOG MODEM*, ETHERNET CONNECTION TO CUSTOMER'S LAN, AND A POWER OUTLET. NOTE: = *SUPPLIED BY SIEMENS*

FOR MORE INFORMATION

FOR MORE DETAILED PLANNING REQUIREMENTS FOR THIS SYSTEM, SEE THE TYPICAL FINAL DRAWING SET NUMBER: TYPICAL # 08000

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ARTIS Q/Q.ZEN/ZEE CEILING
SPECIFICATIONS

ENVIRONMENTAL CONDITIONS		
EXAMINATION AND CONTROL ROOM	TEMPERATURE RANGE:	59°F–86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR
	RELATIVE HUMIDITY:	20% – 75% NON–CONDENSING
AXIS IMAGE SYSTEM	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. TEMP. GRADIENT: AIR FLOW VOLUME: MAX. NOISE GENERATION:	50°F–95°F (RECOMMENDED TEMPERATURE 70°F) 20%–75% NON CONDENSING 18° F/HR 371 CFM 53 dB(A)
POLYDOROS A100 GENERATOR	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. TEMP. GRADIENT: AIR FLOW VOLUME: MAX. NOISE GENERATION:	50°F–95°F (RECOMMENDED TEMPERATURE 70°F) 20%–75% NON CONDENSING 9° F/HR 94 CFM 55 dB(A)
SYSTEM CONTROL CABINET	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. TEMP. GRADIENT: AIR FLOW VOLUME: MAX. NOISE GENERATION:	50°F–95°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH IMAGE INTENSIFIER 59°F–86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR 20% – 75% NON–CONDENSING 9° F/HR 294 CFM 48 dB(A)
KLUVER/LYTRON COOLING UNIT	TEMPERATURE RANGE: RELATIVE HUMIDITY: AIR FLOW VOLUME: MAX. NOISE GENERATION:	41°F–86°F (RECOMMENDED TEMPERATURE 70°F) FROST FREE 647 CFM 55 dB(A) AT 50 HZ, 59 dB(A) AT 60 HZ
STAND WITH FLAT PANEL DETECTOR	MAXIMUM TEMPERATURE GRADIENT: ATMOSPHERIC PRESSURE: SHOCKS: VIBRATIONS:	9° F/HR 700hPa – 1040hPa MAXIMUM 10G/16MS MAXIMUM 0.1 G/10–200HZ

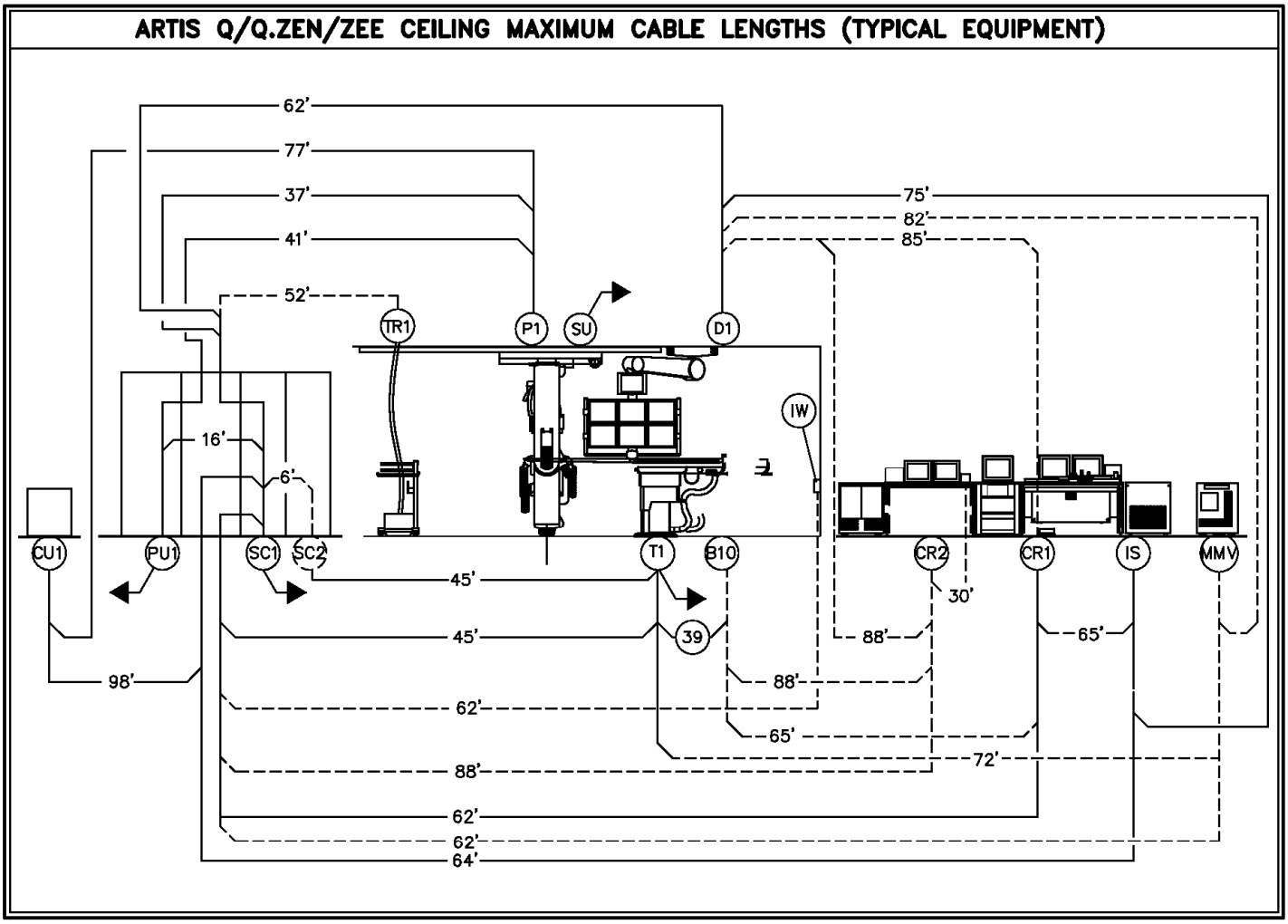
CEILING HEIGHT REQUIREMENT

8 FT. – 11 IN.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
ARTIS Q / Q.ZEN CEILING	AXAQ–060.891.01.01.02	04.13
EXTENDED DCS	AXA4–700.891.04.04.02	09.11
DCS LARGE DISPLAY	AXA4–700.891.03.04.02	09.11

ARTIS Q/Q.ZEN/ZEE CEILING
SPECIFICATIONS



Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard, Malvern, PA 19355

SIEMENS REPRESENTATIVE
Douglas Sohn - +1 (314) 703-0992
douglas.sohn@siemens-healthineers.com

Customer Number: 0000007145

Date: 07/25/2023

MERCY HOSPITAL JEFFERSON
1400 US HIGHWAY 61
FESTUS, MO 63028

Siemens Medical Solutions USA, Inc. is pleased to submit the following quotation for the products and services described herein at the stated prices and terms, subject to your acceptance of the terms and conditions on the face and back hereof, and on any attachment hereto.

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Contract Total: $ 1,031,899
(total does not include any Optional or Alternate components which may be selected)

Proposal valid until 09/30/2023

Notes for Quote Nr CPQ-507694 :

Estimated Delivery Date: 03/15/2024

Estimated delivery date is subject to change based upon factory lead times, acceptance date of this quote, customer site readiness, and other factors. A Siemens representative will contact you regarding the final delivery date.

This proposal includes the trade-in of equipment referenced in Trade Sheet Project #2022-3429. Existing system must be released 14 days post turnover.

This proposal includes CPQ-507694 and CPQ-699364.

This is a CONFIDENTIAL, one-time multi-modality offer which may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is only valid if firm, non-contingent orders for quote #s CPQ-472723, CPQ-507694, CPQ-756544, CPQ-699362 and CPQ-699364 and are placed with Siemens by 09/30/2023. This date supersedes any other validity date indicated in the proposal.

This quote is based upon standard delivery terms and conditions (e.g., standard work hours, first floor delivery, etc.), basic rigging, mechanical installation and calibration. Siemens Medical Solutions USA, Inc., Project Management shall perform a site-specific assessment to ascertain any variations that are out of scope and not

covered by the standard terms (examples such as, but not limited to: larger crane, nonstandard work hours, removal of existing equipment, etc.). Any noted variations identified by Siemens Project Management shall remain the responsibility of the customer and will be subject to additional fees.

Notes for Quote Nr CPQ-699364 :

Estimated Delivery Date: 09/15/2023

Estimated delivery date is subject to change based upon factory lead times, acceptance date of this quote, customer site readiness, and other factors. A Siemens representative will contact you regarding the final delivery date.

This proposal includes CPQ-507694 and CPQ-699364.

This is a CONFIDENTIAL, one-time multi-modality offer which may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is only valid if firm, non-contingent orders for quote #s CPQ-472723, CPQ-507694, CPQ-756544, CPQ-699362 and CPQ-699364 and are placed with Siemens by 09/30/2023. This date supersedes any other validity date indicated in the proposal.
Accepted and Agreed to by:

Siemens Medical Solutions USA, Inc.		**MERCY HOSPITAL JEFFERSON**	
By (sign):	_____	By (sign):	_____
Name:	Douglas Sohn	Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

By signing below, signor certifies that no modifications or additions have been made to the Quotation. Any such modifications or additions will be void.

By (sign): _____

Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard, Malvern, PA 19355

SIEMENS REPRESENTATIVE
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douglas.sohn@siemens-healthineers.com

Quote Nr:	**CPQ-507694 Rev. 4**
Terms of Payment:	**10% Down, 80% Delivery, 10% Installation** **Free On Board:Shipping Point**
Purchasing Agreement:	HEALTHTRUST PURCHASING GRP HEALTHTRUST PURCHASING GRP terms and conditions apply to Quote Nr CPQ-507694 Customer certifies, and Siemens relies upon such certification, that : (a) HPG-79002 IR & ANGIO is the sole GPO for the purchases described in this Quotation, and (b) the person signing this Quotation is fully authorized under the Customer's policies to choose and indicate for Customer such appropriate GPO.

Artis Q.zen ceil. Combo Card/Rad

All items listed below are included for this system: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price
1	14434277	**Artis Q.zen ceil. Combo Card/Rad** The Artis Q.zen product line uses a new detector technology based on crystalline silicon, setting new standards for low-dose fluoroscopy in interventional imaging. The GIGALIX X-ray tube concentrates high pulse power on small, square-shaped focal spots (flat emitter technology for all focal spots). The Artis Q.zen ceiling for interventional cardiology and radiology now features PURE®. 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 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 mid-size zen30HDR detector enables ultra-low dose imaging. Frame rates up to 30 f/s and functions for displaying and storing ECG curves are included. Digital acquisition technology and digital subtraction angiography with up to 7.5 f/s in 1k matrix are available. With new computer hardware and smart algorithms CLEAR MAX offers maximized image quality. 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.	$ 709,506
1	14432948	**Automap** Automatic stand positioning depending on the selected reference image and automatic reference image selection depending on the stand positioning.	$ 1,180

1	14432939	**2nd 4 pedal wireless footswitch** Additional 4-pedal footswitch for release of fluoroscopy, exposure, and table brake, as well as a configurable additional function. Wireless connection via radio communication.	$ 3,737
1	14434142	**narrow TT thick mat. ins of std. TT** 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, 7 cm, made of open-pore polyurethane material and a latex-free cover. Note: The narrow patient positioning tabletop with the thick mattress replaces the narrow or wide tabletop with the thin mattress described in the basic configuration.	$ 0
1	14432947	**Fluoro Loop** Storage and review of dynamic fluoroscopic sequences. This saves an additional acquisition and helps to reduce dose. The maximum storable fluoroscopic time is limited by the maximum DICOM file size of 4 Gbyte.	$ 7,825
1	14434169	**CLEARstent Live** CLEARstent Live is a real-time stent enhancement tool and provides a stabilized view of the moving stent which is displayed on the Assist/Reference Monitor. CLEARstent Live allows real-time verification of stent positioning while moving the device. This enables the physician to precisely position the stent in relation to the anatomy of the heart and stents that already have been implanted. Contains both CLEARstent Live license and CLEARstent license. The CLEARstent imaging function allows an improved display of fine stent structures, i.e. the grid of inflated stents. CLEARstent is a post-processed stent enhancement and may be used also on previously acquired images. Using the CLEARstent function special reference images from any scene or fluoroscopy scene acquired natively will be generated. Composite images are created by averaging several frames of a scene and by considering the alignment of balloon markers. If an ECG signal is available, the heart phase will also be considered.	$ 8,250
1	14432943	**Vascular analysis** Vessel analysis with determination of degree of stenosis, distance measurement and calibration.	$ 4,594
1	14432953	**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 (l x w) - 71.5 cm x 75 cm / 28.2" x 29.5"; 7.7 kg / 16.98 lbs One lower body radiation protection pivot swivel element (l x w): - 77 cm x 48 cm / 30.3" x 18.9"; 3.8 kg / 8.4 lbs Three clip-on units (l x h) - 57 cm / 22.4" x 33 cm / 12.99"; 2.2 kg / 4.85 lbs - 27 cm / 10.6" x 33cm / 12.99"; 0.9 kg / 1.98 lbs - 27 cm / 10.6" x 25cm / 9.8"; 1 kg / 2.2 lbs with a lead of 0.5 mm / 0.02" Pb The maximum weight of the accessory rails is 40 kg (88.2 lbs)	$ 4,197

		Intended only for use with Artis / ARTIS tables.	
1	14440418	**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.	$ 265
		Intended only for use with Artis / ARTIS tables.	
1	14440419	**Cable clips ECG** Cable clips for securing the ECG cable to the patient tabletop. It includes 10 cable clips.	$ 31
		Intended only for use with Artis / ARTIS tables	
1	14440459	**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 lbs.) Weight (with pads): 2.1 kg / 4.63 lbs.	$ 1,047
		Intended only for use with Artis / ARTIS tables.	
1	14440460	**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.	$ 385
		Intended only for use with Artis / ARTIS tables.	
1	14434231	**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.	$ 3,126
1	14440510	**Secondary Hand Switch Ctrl (C Room)** Additional hand switch for radiation release and additional control functions.	$ 587
1	14432950	**DICOM RIS-Modality Worklist** Import of patient/examination data from an external RIS/HIS patient management system with DICOM MWL (Modality Worklist).	$ 701
1	14434201	**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.	$ 1,109
1	14432942	**LV Analysis** Analysis of the left ventricular function of the heart.	$ 7,367
1	14432952	**syngo Security Package (SW lic.)** SW extension providing enhanced security features including user management and audit trail functionality.	$ 2,750
1	14434220	**VOLCANO s5i cable set**	$ 7,487

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	14434176	**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).	$ 27,456
1	14440573	**Add 19" display for LD (rear mount)** 19" TFT display including 36 m cable with DVI-D connection and transceiver for display installation on the rear of the DCS in combination with the Large Display.	$ 4,530
1	14443012	**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 its new IPS panel technology.	$ 0
1	14465217	**Large Display diagn. protection** 55" laminated glass protective screen for the monitor panel.	$ 4,940
1	14455598	**Artis Freestyle Access cable kit** Preparation for mounting, connection and display of the wireless “ACUSON Freestyle Elite with Artis Access” ultrasound system on the Large Display of the Artis system. Artis Freestyle Access optimizes the workflow when using ultrasound guidance in the interventional suite. It provides a zero-cables, zero footprint, fully connected solution for ultrasound guidance in the interventional suite.	$ 2,013
1	14434174	**1st Large Display w/o holder** Preparation for a primary large color flat screen display installed on a third-party display holder for the examination room. Note: For safety reasons, third-party display holders in combination with large display 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. Note: If a large display is selected, the Artis basic configuration includes a connection kit for the large display instead of the displays for the examination room. The type of large display can be chosen with a separate position.	$ 44,387
1	14434188	**Artis Cockpit - 1 console**	$ 23,147

		The Artis Cockpit enables the operation of up to 9 systems and the presentation of up to 9 video signals on a high-resolution High Bright 30" display. The connected systems are operated via keyboard and mouse. Attention: If a Cockpit is selected, the Artis basic configuration includes a connection kit for the Cockpit instead of the display for the control room.	
1	AXA_RIG_QSP_STD	**Standard Rigging Q Q.Zen SP**	$ 14,040
1	E93PM150UAX	**Eaton 93PM-150 kW UPS** Complete system backup without interruption. One UPS per lab. Includes the following: Eaton 93PM UPS Electronics Cabinet w/integrated maintenance bypass sidecar Eaton 93PM Single Battery Cabinet System (Full load back-up time @ 150kW of 7.1 minutes.) Eaton 93PM Remote Monitoring Panel Network Card Eaton 24x7 start-up One year (24x7) warranty through Eaton Corp. Not approved for sites that require OSHPD. Shipment is to customer's dock. Customer is responsible for logistics from the dock to inside location.	$ 59,185
1	AXA_IRCA_FL_BD_LV1	**Essential Edu Package (AXA)(IRCA)(Floor)** This Essential Interventional Radiology & interventional Cardiology education package for floor-mounted systems includes: - Dedicated Siemens Education Consultant: partnering with your Education Coordinator to create a blended curriculum adapted to your facility's individual needs. - Blended Learning Curriculum: a combination of at least two (2) 28-hour onsite trainings, digital (immersive, online & virtual) education, and instructor-led classroom elevated by ASRT accreditation. Designed for your team to maximize their confidence and competence on your system. - On-site Customization: optimizing system hardware, software, workflow and operating safety consistent with the cleared use of the system. - Ongoing Educational Case Support: ability to request onsite case-support for advanced procedures. The education will be delivered in four (4) phases: 1) Pre-Installation: Customized Education Plan (CEP) tailored to your sites experience level and case types. Training needs assessed on hardware and software options, and ongoing procedure support. 2) Pre-Go Live: blend of virtual courses & instructor-led classroom training. 3) Go Live: minimum of two (2) weeks of onsite clinical applications sessions, guiding staff members, reinforcing concepts and practices acquired during pre-training. 4) Warranty /Post-Go Live: continuation of the CEP delivery. Ongoing case support on advanced request and subject to availability. Parties will mutually agree on deliverables and scheduling of the requested training. This educational offering must be utilized within 12 months following install end date. If this offering is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.	$ 43,888
1	GEL104013660127 8	**Black anti-fatigue mat 36x60** Black NewLife EcoPro anti-fatigue mat (36 inches x 60 inches), 3/4 inch polyurethane foam, fluid and dirt resistant with anti-micorbial properties, matte textured surface. The ultimate employee benefit for workers who stand, are ergonomically designed to provide the perfect balance of premium comfort and optimal support. Proprietary Cellulon®Polyurethane Technology stands up to the tough demands of commercial environments while providing lasting comfort that won't bottom out over time. This eco-friendly line of anti-fatigue mats is certified by the National Floor Safety Institute for its high traction bottom surface.	$ 260
1	AXA_ADDL_RIGGING	**Additional Rigging AXA $13,400**	$ 13,400

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1	AXA_TRADE_IN_ALLOW	**Trade-in of a Philips FD 20, project #2022-3429, deinstall/expires 03/31/2024, for ($13,650)**	- $ 13,650

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Quote Nr:	**CPQ-699364 Rev. 0**
Terms of Payment:	**00% Down, 90% Delivery, 10% Installation** **Free On Board:Destination**
Purchasing Agreement:	HEALTHTRUST PURCHASING GRP HEALTHTRUST PURCHASING GRP terms and conditions apply to Quote Nr CPQ-699364 Customer certifies, and Siemens relies upon such certification, that : (a) HPG-73598 ULTRASOUND is the sole GPO for the purchases described in this Quotation, and (b) the person signing this Quotation is fully authorized under the Customer's policies to choose and indicate for Customer such appropriate GPO.

Artis Access Freestyle Elite- for Artis Q, Q.zen, zee, zeego w/ Siemens DCS

All items listed below are included for this system: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price
1	11002300	**ACUSON Freestyle Mainframe** Mainframe for the ACUSON Freestyle™ (FS) Series ultrasound systems, the world's first ultrasound systems that operate with cable-free transducers, a breakthrough in ultrasound imaging. The systems feature superior image quality and new standards in ease of use in an ergonomic and portable design.	$ 17,106
1	11004043	**FREESTYLE ELITE, ARTIS ACCESS 4.1** Exclusive to the ACUSON Freestyle Elite ultrasound system, Artis Access eliminates ultrasound cables and system footprint on the workspace floor.	$ 9,745
1	11003921	**FREESTYLE, 4.1, LANG KIT, ENG** Operating instructions written in English for the ACUSON Freestyle Series ultrasound systems, release 4.1	$ 46
1	11002331	**Freestyle Cordset North America** Custom power cordset for use with the ACUSON Freestyle™ ultrasound system in the North America. Product pending shipment confirmation.	$ 0
1	11004071	**FREESTYLE, 4.1, ARTIS KIT, VD11** The adjustable External Antenna works together with the internal antennas of an ACUSON Freestyle Elite ultrasound system when an additional line-of-sight is required to optimize signal strength in the procedural workspace. Purchasable after the selection of Artis Access, ACUSON Freestyle Elite (PN 11004043)	$ 3,473
1	11004374	**FREESTYLE, TRNSDCR, L17-5** A 17-5 MHz, linear, wireless, and cable-free transducer for use with the ACUSON Freestyle™ Series ultrasound systems. Includes one transducer battery.	$ 6,324
1	11004370	**FREESTYLE, TRNSDCR, L8-3** An 8-3 MHz, linear, wireless, and cable-free transducer for use with the ACUSON Freestyle™ Series ultrasound systems. Includes one transducer battery.	$ 6,324

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1	11003759	**FREESTYLE, STAND ALONE CHARGER KIT** ACUSON Freestyle Stand-Alone Charger provides convenient charging and storage solution for 3 ACUSON Freestyle batteries and 4 ACUSON Freestyle probes. Ideal for Advanced Therapies(AT)/Freestyle integrated configurations providing easily accessible battery charging and probe storage. Ships with Universal power supply with interchangeable country plugs.	$ 1,140
1	USD_INITIAL_4	**Initial onsite training 4 hrs -FMV $1750** Up to (4) hours of 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.	$ 0
1	US_PRELEARN	**Ultrasound System Pre-Learning** PEPconnect is a user-friendly and intuitive online learning platform which offers quick and reliable access to clinical training and continuing education. Education content will be available on PEPconnect before your ultrasound system arrives to prepare for the installation. Pre-learning content includes how-to tutorials, quick guides and step-by-steps for all Siemens ultrasound systems. This educational offering can be used before the system arrives, during installation and as needed after the installation is complete.	$ 0
1	ACU_SVC_FSTYLE_2YR	**USD Ext Warrty FStyle 2nd yr (FMV $4,264**	$ 4,264
1	ACU_XWR_FSTYLE_2YR	**Offset for FStyle Ext Warranty 2nd yr**	- $ 4,264
1	ACU_SVC_FSTYLE_3YR	**USD Ext Warrty FStyle 3rd yr (FMV $4,264**	$ 4,264
1	ACU_XWR_FSTYLE_3YR	**Offset for FStyle Ext Warranty 3rd yr**	- $ 4,264

Contract Total: $ 1,031,899

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OPTIONS on Quote Nr : CPQ-507694 Rev. 4

OPTIONS for Artis Q.zen ceil. Combo Card/Rad

All items listed below are OPTIONS and will be included on this system ONLY if initialed: *(See Detailed Technical Specifications at end of Proposal.)*

Qty	Part No.	Item Description	Extended Price	Initial to Accept
1	BART700PEDL	**Mark 7 Arterion, Pedestal System** The Arterion Mark 7 Pedestal contrast medium injector can be positioned anywhere at the patient positioning table on a mobile unit, for direct operation of all functions in the examination room. The injector system includes: A mobile pedestal stand with electronics unit, a contrast medium heater and a connection cable to the manual release. A support arm with injector head and a control lever for moving the injector head. A user control console with large touch screen and corresponding additional monitoring display on the injector head. 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	**+ $ 29,016**	X

		Injector standard configuration 150 ml SIEMENS interface cable Operator Manual Service manual (English). Power supply 200 V to 250 V; 50/60 Hz.		
1	BINSART700P	**Arterion Pedestal Install**	**+ $ 1,606**	X_____
1	14440411	**Intercom - Comfort** Intercom system for communication between examination room and control room. It includes: - A microphone with a control box for the control room. - A microphone with an adaptive acoustic filter for background noise suppression for the examination room. - A footswitch for conversation selection for the examination room.	**+ $ 861**	X_____
1	14432925	**PERISTEPPING / PERIVISION** Motorized stepping for real-time bolus chasing. C-arm stepping with ARTIS pheno and ceiling mounted systems, table stepping with floor mounted and biplane systems. Peripheral digital angiography with stepping and online subtraction display.	**+ $ 20,141**	X_____

FINANCING: The equipment listed above may be financed through Siemens. Ask us about our full range of financial products that can be tailored to meet your business and cash flow requirements. For further information, please contact your local Sales Representative.

ACCESSORIES: Don't forget to ask us about our line of OEM imaging accessories to complete your purchase. All accessories can be purchased or financed as part of this order. To purchase accessories directly or to receive our accessories catalog, please call us directly at 1-888-222-9944 or contact your local Sales Representative.

COMPLIANCE: Compliance with legal and internal regulations is an integral part of all business processes at Siemens. Possible infringements can be reported to our Helpdesk “Tell us” function at www.siemens.com/tell-us.

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Siemens Medical Solutions USA, Inc. General Terms and Conditions

1. GENERAL

1.1 Contract Terms and Acceptance. These terms and conditions constitute an integral part of any contract between Seller and Purchaser identified on the first page hereof and shall govern the sale of the products identified in such contract ("Products"). Purchaser acknowledges that this is a commercial and not a consumer transaction. Purchaser shall be deemed to have assented to, and to have waived any objection to, this Agreement upon the earliest to occur of any of the following: Purchaser's completion or execution of this Agreement; Purchaser's acceptance of all or any part of the Products; Purchaser's issuance of a purchase order for any Products identified on Seller's quotation or proposal; or delivery of the Products to the common carrier for shipment pursuant hereto.**1.2 Refurbished/Used Products.** For Products identified on this Agreement as used or refurbished Products, these Products have been previously owned and used. When delivered to Purchaser, such Products will perform in accordance with the manufacturer's specifications. Since pre-owned Products may be offered simultaneously to several customers, the availability of such Products to Purchaser cannot be guaranteed. If the Products are no longer available, Seller will use its best efforts to identify other suitable products in its inventory. If substitute products are not acceptable to Purchaser, then Seller will cancel the order and refund to Purchaser any deposits previously paid. The warranty period for any used or refurbished Products will be separately stated on the quotation. **1.3 Third Party Products.** If this Agreement includes the sale of third party products not manufactured by Seller, then Purchaser agrees and acknowledges that (a) Purchaser has made the selection of these products on its own, (b) the products are being acquired by Seller solely at the request of and for the benefit and convenience of Purchaser, (c) no representation, warranty or guarantee has been made by Seller with respect to the products, (d) the obligation of Purchaser to pay Seller for the products is absolute and unconditional, (e) use of the products may be subject to Purchaser's agreement to comply with any software licensing terms imposed by the manufacturer; and (f) unless otherwise indicated by Seller in writing, Seller is not responsible for any required installation, validation, product recall, warranty service, maintenance, complaint handling, or any other applicable FDA regulatory requirements, and the Purchaser will look solely to the manufacturer regarding these services and will assert no claim against Seller with respect to these products.

2. PRICES

2.1 Quotations. Unless otherwise agreed to in writing or set forth in the quotation, all prices quoted by Seller and amounts payable by Purchaser are in U.S. dollars, and include Seller's standard packaging. The prices quoted to Seller assume that the Seller is located in, and will use the Products in, the U.S. If not, such quotation will be void. Unless otherwise stated, the quotation shall only be valid for forty-five (45) days from the date of the quotation.**2.2 Delay in Acceptance of Delivery.** Should the agreed delivery date be postponed by Purchaser, Seller shall have the right to deliver the Products to storage at Purchaser"s risk and expense, and payments due upon delivery shall become due when Seller is ready to deliver.

3. TAXES

3.1 Any sales, use or manufacturer"s tax which may be imposed upon the sale or use of Products, or any property tax levied after readiness to ship, or any excise tax, license or similar fee (excluding the Medical Device Excise Tax as set forth in Section 4191 of the Internal Revenue Code of 1986, as amended) required under this transaction, shall be in addition to the quoted prices and shall be paid by Purchaser. Notwithstanding the foregoing, Seller agrees to honor any valid exemption certificate provided by Purchaser.

4. TERMS OF PAYMENT; DEFAULT

4.1 Payments; Due Date. Unless otherwise set forth in the quotation, Purchaser shall pay Seller as follows: an initial deposit of 10% of the purchase price for each Product is due upon submission of the purchase order, an additional 80% of the purchase price is due upon delivery of each Product, and the final 10% of the purchase price is due upon completion of installation or when the Products are available for first patient use, whichever occurs first. Unless otherwise agreed, all payments other than the initial deposit are due net thirty (30) days from the date of invoice. Seller shall have no obligation to complete installation until the payment due upon delivery is received. Partial shipments shall be

billed as made, and payments for such shipments will be made in accordance with the foregoing payment terms.**4.2 Late Payment.** A service charge of 1½% per month, not to exceed the maximum rate allowed by law, shall be made on any portion of Purchaser"s outstanding balance which is not paid when due. Payment of such service charge shall not excuse or cure Purchaser's breach or default for late payment.**4.3 Payment of Lesser Amount.** If Purchaser pays, or Seller otherwise receives, a lesser amount than the full amount provided for under this Agreement, such payment shall not constitute or be construed other than as on account of the earliest amount due Seller. No endorsement or statement on any check or payment or elsewhere shall constitute or be construed as an accord or satisfaction. **4.4 Where Payment Due Upon Installation or Completion.** Should any terms of payment provide for either full or partial payment upon completion of installation or thereafter, and completion of installation is delayed for any reason for which Seller is not responsible beyond the installation date set forth in the Notice to Manufacture Letter issued by Seller, as applicable, then the balance of payments shall be due on the day following such installation date.**4.5 Default; Termination.** Each of the following shall constitute an event of default under this Agreement: (i) a failure by Purchaser to make any payment when due; (ii) a failure by Purchaser to perform any other obligation under this Agreement within thirty (30) days of receipt of written notice from Seller; or (iii) the commencement of any insolvency, bankruptcy or similar proceedings by or against Purchaser. Upon the occurrence of any event of default, at Seller's election: (a) the entire amount of any indebtedness and obligation due Seller under this Agreement and interest thereon shall become immediately due and payable; (b) Seller may suspend the performance of any of Seller's obligations hereunder, including, but not limited to, obligations relating to delivery, installation and warranty services; (c) Purchaser shall put Seller in possession of the Products upon demand; (d) Seller may sell or otherwise dispose of all or any part of the Products and apply the proceeds thereof against any indebtedness or obligation of Purchaser under this Agreement; (e) if this Agreement or any indebtedness or obligation of Purchaser under this Agreement is referred to an attorney for collection or realization, Purchaser shall pay to Seller all costs of collection and realization (including, without limitation, a reasonable sum for attorneys' fees); and Purchaser shall pay any deficiency remaining after collection of or realization by Seller on the Products. In addition, Seller may terminate this Agreement upon written notice to Purchaser in the event that Purchaser is not approved for credit or upon the occurrence of any material adverse change in the financial condition or business operations of Purchaser.**4.6 Financing.** Notwithstanding any arrangement that Purchaser may make for the financing of the purchase price of the Products, the parties agree that any such financing arrangement shall have no effect on the Purchaser's payment obligations under this Agreement, including but not limited to Sections 4.1 and 4.2 above.

5. EXPORT TERMS

5.1 Unless other arrangements have been made, payment on export orders shall be made by irrevocable confirmed letter of credit, payable in U.S. dollars against Seller's invoice and standard shipping documents. Such letter of credit shall be in an amount equal to the full purchase price of the Products and shall be established in a U.S. bank acceptable to Seller. Purchaser shall have sole responsibility to procure all necessary permits and licenses for shipment and compliance with any governmental regulations concerning control of final destination of Products.**5.2** Purchaser agrees that Products shall not at any time directly or indirectly be used, exported, sold, transferred, assigned or otherwise disposed of in a manner which will result in non-compliance with applicable export Control and US Sanction laws and regulations. If Purchaser purchases a Product at the domestic price and exports such Product, or transfers such Product to a third party for export, outside of the U.S., Purchaser shall pay to Seller the difference between the domestic price and the international retail price of such Product. Purchaser shall deliver to Seller, upon Seller's request, written assurance regarding compliance with this Section in form and content acceptable to Seller.

6. DELIVERY, RISK OF LOSS

6.1 Delivery Date. Delivery and installation dates will be established by mutual agreement of the parties as set forth in the Notice to Manufacture Letter issued by the Seller, as applicable. Seller shall make reasonable efforts to meet such delivery date(s).**6.2 Risk of Loss; Title Transfer.** Unless otherwise agreed to in writing, the following shall apply: (a) For Products that do not require installation by Seller, and for options and add-on products purchased subsequent to delivery and installation of Products purchased under this

Agreement, delivery shall be complete upon transfer of possession to common carrier, F.O.B. Shipping Point, whereupon title to and all risk of loss, damage to or destruction of the Products shall pass to Purchaser. (b) For Products that require installation by Seller, delivery shall be complete upon delivery of the Products to Purchaser's designated site, F.O.B. Destination; whereupon title to and all risk of loss, damage to or destruction of such Products shall pass to Purchaser upon completion of delivery. (c) All freight charges and other transportation, packing and insurance costs, license fees, custom duties and other similar charges shall be the sole responsibility of Purchaser unless included in the purchase price or otherwise agreed to in writing by Seller. In the event of any loss or damage to any of the Products during shipment, Seller and Purchaser shall cooperate in making any insurance claim.

7. SECURITY INTEREST/FILING

7.1 Purchaser grants to Seller a security interest in the Products until payment in full by Purchaser. Purchaser shall sign any financing statements or other documents necessary to perfect Seller's security interests in the Products. Purchaser further represents and covenants that (a) it will keep the Products in good order and repair until the purchase price has been paid in full, (b) it will promptly pay all taxes and assessments upon the Products or the use thereof, (c) it will not attempt to transfer any interest in the Products until the purchase price has been paid in full, and (d) it is solvent and financially capable of paying the full purchase price for the Products.

8. CHANGES, CANCELLATION, AND RETURN

8.1 Orders accepted by Seller are not subject to change except upon Seller's written agreement.**8.2** Orders accepted by Seller are non-cancellable by Purchaser except upon Seller's written consent and payment by Purchaser of a cancellation charge equal to 10% of the price of the affected Products, plus any shipping, insurance, inspection and refurbishment charges; the cost of providing any training, education, site evaluation or other services completed by Seller; and any return, cancellation or restocking fees with respect to any Third Party Products ordered by Seller on behalf of Purchaser. Seller may retain any payments received from Purchaser up to the amount of the cancellation charge. In no event can an order be cancelled by Purchaser or Products be returned to Seller after shipment.**8.3** Seller reserves the right to change the manufacture and/or design of its Products if, in the judgment of Seller, such change does not alter the general function of the Products.

9. FORCE MAJEURE

9.1 Seller shall not be liable for any loss or damage for delay in delivery, inability to install or any other failure to perform due to causes beyond its reasonable control including, but not limited to, acts of God or the public, war, civil commotion, blockades, embargoes, calamities, floods, fires, earthquakes, explosions, storms, strikes, lockouts, labor disputes, or unavailability of labor, raw materials, power or supplies. Should such a delay occur, Seller may reasonably extend delivery or production schedules or, at its option, cancel the order in whole or part without liability other than to return any unearned deposit or prepayment.

10. WARRANTY

10.1 Seller warrants that the Products manufactured by Seller and sold hereunder shall be free from defects in material or workmanship under normal use and service for the warranty period. The final assembled Products shall be new although they may include certain used, reworked or refurbished parts and components (e.g., circuit boards) that comply with performance and reliability specifications and controls. Seller's obligation under this warranty is limited, at Seller's option, to the repair or replacement of the Product or any part thereof. Unless otherwise set forth in the Product Warranty attached hereto and incorporated herein by reference ("Product Warranty"), the warranty period shall commence upon the earlier of the date that the Products have been installed in accordance with Section 12.5 hereof (which date shall be confirmed in writing by Seller) or first patient use, and shall continue for twelve (12) consecutive months. Seller makes no warranty for any Products made by persons other than Seller or its affiliates, and Purchaser's sole warranty therefor, if any, is the original manufacturer"s warranty, which Seller agrees to pass on to Purchaser, as applicable. The warranty provided by Seller under this Section 10 extends only to the original Purchaser, unless the Purchaser obtains the Seller's prior written consent with respect to any sale or other transfer of the Products during the term of the warranty.**10.2** No warranty extended by Seller shall apply to any Products which have been damaged by fire, accident, misuse, abuse, negligence, improper application or alteration or by a force majeure occurrence as described in Section

9 hereof or by the Purchaser's failure to operate the Products in accordance with the manufacturer's instructions or to maintain the recommended operating environment and line conditions; which are defective due to unauthorized attempts to repair, relocate, maintain, service, add to or modify the Products by the Purchaser or any third party or due to the attachment and/or use of non-Seller supplied parts, equipment or software without Seller's prior written approval; which failed due to causes from within non-Seller supplied equipment, parts or software including, but not limited to, problems with the Purchaser's network; or which have been damaged from the use of operating supplies or consumable parts not approved by Seller. In addition, there is no warranty coverage for any transducer or probe failure due to events such as cracking from high impact drops, cable rupture from rolling equipment over the cable, delamination from cleaning with inappropriate solutions, or TEE bite marks. Seller may effectuate any repairs at Purchaser's facility, and Purchaser shall furnish Seller safe and sufficient access for such repair. Repair or replacement may be with parts or products that are new, used or refurbished. Repairs or replacements shall not interrupt, extend or prolong the term of the warranty. Purchaser shall, upon Seller's request, return the non-complying Product or part to Seller with all transportation charges prepaid, but shall not return any Product or part to Seller without Seller's prior written authorization. Purchaser shall pay Seller its normal charges for service and parts for any inspection, repair or replacement that falls outside of Seller's warranty. Seller's warranty does not apply to consumable materials, disposables, supplies, accessories and collateral equipment, except as specifically stated in writing or as otherwise set forth in the Product Warranty.**10.3** This warranty is made on condition that immediate written notice of any noncompliance be given to Seller and Seller's inspection reveals that Purchaser"s claim is covered under the terms of the warranty (i.e., that the noncompliance is due to traceable defects in original materials and/or workmanship).**10.4** Purchaser shall provide Seller with both on-site and remote access to the Products. The remote access shall be provided through the Purchaser's network as is reasonably necessary for Seller to provide warranty services under this Agreement. Remote access will be established through a broadband internet-based connection to either a Purchaser owned or Seller provided secure end-point. The method of connection will be a Peer-to-Peer VPN IPsec tunnel (non-client based) with specific inbound and outbound port requirements.**10.5** Warranty service will be provided without charge during Seller"s regular working hours (8:30-5:00), Monday through Friday, except Seller's recognized holidays. If Purchaser requires that service be performed outside these hours, such service can be made available at an additional charge, at Seller's then current rates. The obligations of Seller described in this Section are Seller's only obligations and Purchaser's sole and exclusive remedy for a breach of product warranty.**10.6 SELLER MAKES NO WARRANTY OTHER THAN THE ONE SET FORTH HEREIN AND IN THE PRODUCT WARRANTY. SUCH WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSES, AND SUCH CONSTITUTES THE SOLE AND EXCLUSIVE WARRANTY MADE WITH RESPECT TO THE PRODUCTS, SERVICE OR OTHER ITEM FURNISHED UNDER THIS AGREEMENT.10.7** In the event of any inconsistencies between the terms of this Section 10 and the terms of the Product Warranty, the terms of the Product Warranty shall prevail.

11. LIMITATION OF LIABILITY

11.1 In no event shall Seller's liability hereunder exceed the actual loss or damage sustained by Purchaser, up to the purchase price of the Products. The foregoing limitation of liability shall not apply to claims for bodily injury or damages to real property or tangible personal property to the extent arising from Seller's negligence or a product defect.**11.2 SELLER SHALL NOT BE LIABLE FOR ANY LOSS OF USE, REVENUE OR ANTICIPATED PROFITS; COST OF SUBSTITUTE PRODUCTS OR SERVICES; LOSS OF STORED, TRANSMITTED OR RECORDED DATA; OR FOR ANY INDIRECT, INCIDENTAL, UNFORESEEN, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY OR FORM OF ACTION, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY THEREOF, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT OR THE SALE OR USE OF THE PRODUCTS. THE FOREGOING IS A SEPARATE, ESSENTIAL TERM OF THIS AGREEMENT AND SHALL BE EFFECTIVE UPON THE FAILURE OF ANY REMEDY, EXCLUSIVE OR NOT.**

12. INSTALLATION - ADDITIONAL CHARGES

12.1 General. Unless otherwise expressly stipulated in writing, the Products shall be installed by and at the expense of Seller except that Seller shall not provide rigging or site preparation services unless otherwise agreed to in writing by Seller for an additional charge. Seller will not install accessory items such as cabinets, illuminators, darkroom equipment or processors for X-Ray and CT equipment, unless otherwise agreed to in writing by Seller.**12.2 Installation by Seller.** If Seller specifies it will install the Products, the following applies: subject to fulfillment of the obligations set forth in Section 12.3 below, Seller shall install the Products and connect them to the requisite safety switches and power lines to be installed by Purchaser. Except as otherwise specified below, if such installation and connection are performed by Seller‘s technical personnel, prices shown include the cost thereof, provided that the installation and connection can be performed within the Continental United States or Puerto Rico and during normal business hours. Any overtime charges or other special expenses shall be additional charges to the prices shown.**12.3 Purchaser"s Obligations.** Purchaser shall, at its expense, provide all proper and necessary labor and materials for plumbing service, carpentry work, conduit wiring, and other preparations required for such installation and connection. All such labor and materials shall be completed and available at the time of delivery of the Products by Seller. Additionally, Purchaser shall provide free access to the installation site and, if necessary, safe and secure space for storage of Products and equipment prior to installation by Seller. Purchaser shall be responsible, at its sole cost and expense, for obtaining all permits, licenses and approvals required by any federal, state or local authorities in connection with the installation and operation of the Products, including but not limited to any certificate of need and zoning variances. Purchaser shall provide a suitable environment for the Products and shall ensure that its premises are free of hazardous conditions and any concealed or dangerous conditions and that all site requirements are met. Seller shall delay its work until Purchaser has completed the removal of any hazardous materials or has taken any other precautions and completed any other work required by applicable regulations. Purchaser shall reimburse Seller for any increased costs and expenses incurred by Seller that are the result of or are caused by any such delay. In the event that Seller is requested to supervise the installation of the Products, it remains the Purchaser"s responsibility to comply with local regulations. Seller is not an architect and all drawings furnished by Seller are not construction drawings. If local labor conditions, including a requirement to use union labor, require the use of non-Seller employees to participate in the installation of the Product or otherwise causes delays or any additional expenses, then any such additional costs shall be at Purchaser’s expense. **12.4 Regulatory Reporting.** In the event that any regulatory activity is performed by anyone other than Seller’s authorized personnel, then Purchaser shall be responsible for fulfilling any and all reporting requirements.**12.5 Completion of Installation.** Installation shall be complete upon the conclusion of final calibration and checkout under Seller’s standard procedures to verify that the Products meet applicable written performance specifications. Notwithstanding the foregoing, first use of the Products by Purchaser, its agents or employees for any purpose after delivery shall constitute completion of installation.

13. PATENT, COPYRIGHT AND OTHER INFRINGEMENT CLAIMS

13.1 Infringement by Seller. Seller warrants that the Products manufactured by Seller and sold hereunder do not infringe any U.S. patent or copyright. If Purchaser receives a claim that any such Products, or parts thereof, infringe upon the rights of others under any U.S. patent or copyright, Purchaser shall notify Seller immediately in writing. Provided that Purchaser gives Seller information, assistance and exclusive authority to evaluate, defend and settle such claims, Seller shall at its own expense and option: indemnify and defend Purchaser against such claims; settle such claims; procure for Purchaser the right to use the Products; or remove or modify them to avoid infringement. If none of these alternatives is available on terms reasonable to Seller, then Purchaser shall return the Products to Seller and Seller shall refund to Purchaser the purchase price paid by Purchaser less reasonable depreciation for Purchaser’s use of the Products. The foregoing states Seller’s entire obligation and liability, and Purchaser’s sole remedy, for claims of infringement.**13.2 Infringement by Purchaser.** If some or all of the Products sold hereunder are made by Seller pursuant to drawings or specifications furnished by Purchaser, or if Purchaser modifies or combines, operates or uses the Products other than as specified by Seller or with any product, data, software, apparatus or program not provided or approved by Seller, then the

indemnity obligation of Seller under Section 13.1 shall be null and void.

14. DESIGNS AND TRADE SECRETS; LICENSE; CONFIDENTIALITY

14.1 Any drawings, data, designs, software programs or other technical information supplied by Seller to Purchaser in connection with the sale of the Products shall remain Seller's property and shall at all times be held in confidence by Purchaser.**14.2** For all Products which utilize software for their operation, such "Applications Software" shall be licensed to Purchaser under the terms of Seller's Software License Schedule attached hereto.**14.3** Seller and Purchaser shall maintain the confidentiality of any information provided or disclosed to the other party relating to the business, customers and/or patients of the disclosing party, as well as this Agreement and its terms (including the pricing and other financial terms under which the Purchaser will be purchasing the Products). Each party shall use reasonable care to protect the confidentiality of the information disclosed, but no less than the degree of care it would use to protect its own confidential information, and shall only disclose the other party's confidential information to its employees and agents having a need to know this information. The obligations of confidentiality set forth herein shall not apply to any information in the public domain at the time of disclosure or that is required to be disclosed by court order or by law.

15. ASSIGNMENT

15.1 Neither party may assign any rights or obligations under this Agreement without the prior written consent of the other, which shall not be unreasonably withheld. Any attempt to do so shall be void, except that Seller may assign this Agreement without consent to any subsidiary or affiliated company, and may delegate to authorized subcontractors or service suppliers any work to be performed under this Agreement so long as Seller remains liable for the performance of its obligations under this Agreement. This Agreement shall inure to and be binding upon the parties and their respective successors, permitted assigns and legal representatives.

16. COSTS AND FEES

16.1 In the event that any dispute or difference is brought arising from or relating to this Agreement or the breach, termination or validity thereof, the prevailing party shall be entitled to recover from the other party all reasonable attorneys' fees incurred, together with such other expenses, costs and disbursements as may be allowed by law.

17. MODIFICATION

17.1 This Agreement may not be changed, modified or amended except in writing signed by duly authorized representatives of the parties.

18. GOVERNING LAW; WAIVER OF JURY TRIAL

18.1 This Agreement shall be governed by the laws of the state where the Product(s) will be installed, without regard to that state's choice of law principles.**18.2 EACH OF THE PARTIES EXPRESSLY WAIVES ALL RIGHTS TO A JURY TRIAL IN CONNECTION WITH ANY DISPUTE UNDER THIS AGREEMENT.**

19. COST REPORTING

19.1 Purchaser agrees that it must fully and accurately report prices paid under this Agreement, net of all discounts, as required by applicable law and contract, including without limitation 42 CFR §1001.952(h),in all applicable Medicare, Medicaid and state agency cost reports. Purchaser shall retain a copy of this Agreement and all other communications regarding this Agreement, together with the invoices for purchase and permit agents of the U.S. Department of Health and Human Services or any state agency access to such records upon request.

20. INTEGRATION

20.1 These terms and conditions, including any attachments or other documents incorporated by reference herein, constitute the entire, complete and exclusive statement of agreement with respect to the subject matter hereof, and supersede any and all prior agreements, understandings and communications between the parties with respect to the Products. Purchaser's additional or different terms and conditions stated in a purchase order, bid documents or any other document issued by Purchaser are specifically rejected and shall not apply to the transactions contemplated under this Agreement.

21. SEVERABILITY; HEADINGS

21.1 No provision of this Agreement which may be deemed unenforceable will in any way invalidate any other portion or provision of this Agreement. Section headings are for convenience only and have no substantive effect.

22. WAIVER

22.1 No failure and no delay in exercising, on the part of any party, any right under this Agreement will operate as a waiver thereof, nor will any single or partial exercise of any right preclude the further exercise of any other right.

23. NOTICES
23.1 Any notice or other communication under this Agreement shall be deemed properly given if in writing and delivered in person or mailed, properly addressed and stamped with the required postage, to the intended recipient at its address specified on the face hereof.

24. RIGHTS CUMULATIVE
24.1 The rights and remedies afforded to Seller under this Agreement are in addition to, and do not in any way limit, any other rights or remedies afforded to Seller by any other agreement, by law or otherwise.

25. END USER CERTIFICATION
25.1 Purchaser represents, warrants and covenants that it is acquiring the Products for its own end use and not for reselling, leasing or transferring to a third party (except for lease-back financings).

26. ACCESS TO BOOKS AND RECORDS
26.1 To the extent required by Section 1861(v)(1)(I) of the Social Security Act and the regulations promulgated thereunder, until the expiration of four (4) years after the furnishing of any Product or service pursuant to this Agreement, Seller shall make available, upon written request by the Secretary of Health and Human Services (the “Secretary”), or upon request by the Comptroller General (the “Comptroller”), or any of their duly authorized representatives, copies of this Agreement and any books, documents, records or other data of Seller that are necessary to certify the nature and extent of any costs incurred by Purchaser for such Products and services. If Seller carries out any of its duties under this Agreement through a subcontract with a related organization involving a value or cost of ten thousand dollars ($10,000) or more over a twelve (12) month period, Seller will cause such subcontract to contain a clause to the effect that, until the expiration of four (4) years after the furnishing of any Product or service pursuant to said contract, the related organization will make available upon the written request of the Secretary or the Comptroller, or any of their duly authorized representatives, copies of records of said related organization that are necessary to certify the nature and extent of cost incurred by Purchaser for such Product or service.

27. DISPOSITION OF PRODUCTS
27.1 Purchaser expressly agrees that should Purchaser sell, transfer or otherwise dispose of the Products, Purchaser shall notify Seller in writing and give Seller the opportunity to purchase such Products. With Purchaser’s notice, Purchaser shall provide Seller with a copy of the third party’s binding offer to purchase the Products and Seller shall have seven (7) days to notify the Purchaser of an offer to purchase the Products.
05/15 Rev.

Siemens Medical Solutions USA, Inc.
40 Liberty Boulevard, Malvern, PA 19355

SIEMENS REPRESENTATIVE
Douglas Sohn - +1 (314) 703-0992
douglas.sohn@siemens-healthineers.com

Software License Schedule
to the Siemens Medical Solutions USA, Inc General Terms and Conditions

1. DEFINITIONS: The following definitions apply to this Schedule:

"**Agreement**" shall mean the attached (i) Quotation for Products and/or Services including the Terms and Conditions of Sale and applicable schedules; and/or (ii) Software License Agreement describing the software licensed herein and the specific system for which the license is issued.
"**Licensor**" shall mean Siemens Medical Solutions USA, Inc.
"**Licensee**" shall mean the end-user to whom Licensor provides Software or Documentation for its internal use under the Agreement.
"**Software**" shall mean the software described in the attached Agreement, including the following as contained therein: (i) software programs consisting of a series of statements or instructions to be used directly or indirectly in a programmable controller or computer to bring about a certain result and (ii) databases consisting of systemized collections of data to be used or referenced directly or indirectly by a programmed controller or computer. Notwithstanding the foregoing, "Software" does not include "firmware" as such term is conventionally understood. Diagnostic/Maintenance Software also is not included within the scope of the Software licensed under this Schedule, and is available only as a special option under a separate Diagnostic Materials License Agreement and may be subject to a separate licensing fee.
"**Documentation**" shall mean the documents and other supporting materials which are intended to support the use of an associated product, including (but not limited to) instructions, descriptions, flow charts, logic diagrams and listings of the Software, in text or graphic form, on machine readable or printed media.
"**Designated Unit**" shall mean a single control unit or computer identified on the first page of the Agreement, on which Software licensed hereunder may be used by Licensee.
2. SCOPE: The following terms and conditions shall apply to all Software and Documentation provided by Licensor to Licensee under the Agreement (whether included with other products listed in the Agreement or listed separately in the Agreement), together with any updates or revisions thereto which Licensor may provide to Licensee, and all copies thereof, except any Software and/or Documentation licensed directly by Licensor's supplier under a separate end-user license agreement accompanying the Software or the Documentation, in which case Licensee agrees to be bound by that license agreement as a condition to using the Software and/or Documentation. Except as expressly provided herein, and provided that in no event shall the warranties or other obligations of Licensor with respect to such Software or Documentation exceed those set forth in this Schedule, this Schedule shall be subject to the liability limitations and exclusions and other terms and conditions set forth in the Agreement. **ANY USE OF THE SOFTWARE, INCLUDING BUT NOT LIMITED TO USE ON THE DESIGNATED UNIT, WILL CONSTITUTE LICENSEE'S AGREEMENT TO THIS SOFTWARE LICENSE SCHEDULE (OR RATIFICATION OF ANY PREVIOUS CONSENT).**
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(b) Licensee is licensed to use the Software to provide only the limited functionality (specific tasks or processes) for which the Designated Unit has been designed and marketed by Licensor. This license specifically prohibits any other use of the software programs or functions, or inclusion of additional software programs or functions that do not directly support the limited functionality, on the Designated Unit. If Licensee uses the Designated Unit to access or utilize the services or functionality of Microsoft Windows Server products (such as Microsoft Windows NT Server 4.0 (all editions) or Microsoft Windows 2000 Server (all editions)), or uses the Designated Unit to permit workstation or computing devices to access or utilize the services or functionality of Microsoft Windows Server products, Licensee may be required to obtain a Client Access License for the Designated Unit and/or each such workstation or computing device. Licensee should refer to the end user license agreement for its Microsoft Windows Server product for additional information.

(c) The Software may contain support for programs written in Java. Java technology is not fault tolerant and is not designed, manufactured, or intended for use or resale as online control equipment in hazardous environments requiring fail-safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, direct life support machines, or weapons systems, in which the failure of Java technology could lead directly to death, personal injury, or severe physical or environmental damage. Sun Microsystems, Inc. has contractually obligated Licensor's supplier to make this disclaimer.

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Revised 03/15/05

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TRADE-IN EQUIPMENT REQUIREMENTS

TRADE-IN EQUIPMENT REQUIREMENTS

THE FOLLOWING APPLIES ONLY TO THE EXTENT THAT THE QUOTATION INCLUDES AN EQUIPMENT TRADE IN OR IF A TRADE-IN IS LATER ADDED TO THS QUOTATION VIA A CHANGE ORDER. THESE REQUIREMENTS ARE IN ADDITION TO ANY OTHER REFERENCED TERMS AND CONDITIONS OF THE QUOTATION AND SHALL REMAIN IN EFFECT REGARDLESS OF ANY CONTRARY LANGUAGE IN THE QUOTATION.

This Quotation includes the trade-in equipment described herein and referenced by either the Project Number identified in the Quotation hereof (non-Ultrasound) or the Trade In Part Number (Ultrasound) as further described in the associated Trade Sheet which is incorporated herein by reference. Purchaser certifies that the description of the trade-in equipment as set forth on the Trade Sheet is a true and accurate representation of the equipment, and that the equipment is in good working condition unless otherwise noted on the Trade Sheet.

The trade-in equipment must be made available for removal no later than turnover of the new equipment. Purchaser must vacate the room of all items not listed on the Trade Sheet, or otherwise clearly identify all items listed on the Trade Sheet, prior to the start of the de-installation. If this is not done, Seller will have no liability for items which are subsequently removed or scrapped. If the de-installation or return of the trade-in equipment is delayed by Purchaser for reasons other than a force majeure event, or if upon inspection by Seller it is determined that the equipment does not meet the manufacturer's operating specifications, or if any items listed as included on the Trade Sheet are not made available at the time of de-installation, then trade-in value will be re-evaluated and any loss in value or additional costs incurred by Seller shall be deducted from the established trade-in value and the pricing set forth on this Quotation will be adjusted by change order. In the event that access to the non-ultrasound trade-in equipment is denied past 14 days from turnover, or access to ultrasound trade-in equipment is denied past 30 days from turnover, then Purchaser shall pay to Seller a rental fee in the amount 3.5% of the total trade-in value plus any additional value provided by an Elevate/Promotional program included in this quotation (no less than $1000) for each month, or part thereof, that access is denied. In addition, if the purchase and installation of the new equipment covered by this Quotation is not completed, then Seller shall invoice Purchaser for all costs and expenses incurred by Seller in connection with the de-installation and removal of the trade-in equipment, including but not limited to labor, materials, rigging out, and transportation, which costs shall be paid by Purchaser within thirty (30) days of the invoice date.

Purchaser further acknowledges and agrees that (i) the trade-in equipment will be free and clear of all liens and encumbrances including, but not limited to, unpaid leases and loans, and that upon request, it will execute a bill of sale or other documents reasonably satisfactory to Siemens to transfer title and ownership of the equipment to Seller, (ii) it is Purchaser's sole responsibility to delete all protected health information and any other confidential information from the equipment prior to de-installation, without damaging or cannibalizing the equipment or otherwise affecting the operation of the equipment in accordance with its specifications, (iii) the equipment, including all updates, upgrades, modifications, enhancements, revisions, software, S/W disks and manuals, shall be returned to Siemens in good operating condition, reasonable wear and tear excepted, and (iv) to the extent not prohibited by applicable law, Purchaser shall indemnify and hold Seller harmless from and against any and all claims, demands, causes of action, damages, liability, costs and expenses (including reasonable attorney's fees) resulting or arising from Purchaser's failure to comply with item (i) above.

FOR MR SYSTEMS: cryogen levels must be least 65% upon time of de-installation. FOR MOBILE SYSTEMS: system must be road worthy and a state issued title transferring ownership to Seller (or Designee) must be received prior to the removal of the mobile system. FOR MODALITY TRADE SYSTEMS (non-ultrasound): The trade-in equipment must be available for inspection within two weeks of the scheduled de-installation date. In addition, Purchaser must provide a clear path for the removal of the trade-in equipment and on the date of de-installation after final inspection and test by the Seller (or Designee) has occurred, the Purchaser must supply licensed tradespeople to disconnect the power and plumbing (including draining and removing and disposing of any hazardous materials including, but not limited to glycol from the chiller and oil from the transformer, as examples.) Any additional costs due to the need to use a larger rig (other than a standard 80 ton rig), as well as any construction activities, street closings, permits, etc., required to de-install/remove the equipment are out-of-scope costs and will be the responsibility of Purchaser. FOR ULTRASOUND SYSTEMS – Purchaser may provide transducers with the ultrasound unit being traded in, but will not receive additional credit for such transducers.

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Ultrasound (US) Warranty Information

Product (New Systems and "ECO" Refurbished Systems Only)	**Period of Warranty**[1]	**Coverage** Principal Coverage Period 8am-5pm Monday through Friday [2]

New US Systems [5,6]	12 months	Full Warranty (parts & labor excluding consumables)	
ACUSON P500[7]	12 months Months 13 through 60	Full Warranty (parts & labor excluding consumables) Limited to 1 tier transducer per year	
ACUSON NX Systems[7]	12 months Months 13 through 24	Full Warranty (parts & labor excluding consumables) Limited to 1 tier transducer per year	
ACUSON Bonsai	60 months	Full Warranty (parts & labor excluding consumables) system & cart	
ACUSON Freestyle	12 months Months 13 through 36	Full Warranty (parts & labor excluding consumables) Limited to 1 transducer per year	
Refurbished US Systems [6]	12 months	Full Warranty (parts & labor excluding consumables)	

The parts warranty below only applies to purchased parts, not to replacement parts provided pursuant to a warranty. Repairs or replacements shall not interrupt, extend, or prolong the term of the warranty.		
Transducers sold with New US Systems	12 months	Wear and Failure only (damage not included)
Transducers sold with ACUSON Freestyle	24 months	Wear and Failure only (damage not included)
Transducers sold with ACUSON Bonsai TEE probes sold with New US Systems	60 months 12 months	Wear and Failure only (damage not included) Wear and Failure only (damage not included)
Ultrasound Upgrades (includes Transducers, TEE probes	6 months	Full Warranty (parts & labor: wear and failure only on transducers & TEE probes)
ACUSON Bonsai System & Cart Batteries	12 months	Wear and Failure only (damage not included)
Consumables	Not covered	

Post-Warranty (after expiration of system warranty) – Replacement of parts prorated only. Does not include labor.		
Spare Parts	6 months	Parts only
Transducers	6 months	Parts only

TEE Probes	6 months	Parts only
Consumables	Not covered	

[5]While product shall be delivered FOB shipping point, seller will maintain risk of loss of purchaser's equipment during travel from the factory to the purchaser's destination and shall be responsible for insuring the equipment during such transit.

[6]Trade-in Warranty policy: **New and refurbished systems sold with trade-ins come with a 12-month warranty**. The warranty is reduced to 90 days if the same system is traded in (e.g., Sequoia to Sequoia trade-in for e.g.). System warranty applies to all transducers, probes and OEMs sold with the system

[7]The warranty terms on the following page apply to the ACUSON P300, P500, Freestyle and Bonsai ultrasound systems included in the Quotation in lieu of paragraph 10 of Siemens Medical Solutions USA, Inc. General Terms and Conditions.

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Detailed Technical Specifications

Artis Q.zen ceil. Combo Card/Rad

Part No./Product	Description
14434277 **Artis Q.zen ceil.** **Combo Card/Rad**	**System description:** The single plane X-ray angiography system for digital acquisitions was designed to meet the requirements of modern angiography and interventional procedures, with a focus on interventional radiology with combined applications. **C-arm ceiling-mounted stand:** System cable outlet at the ceiling carriage, on the patient's left side. - Up to 5 preprogrammed work positions, additional 50 user-definable work positions and 3 direct positions can be stored and recalled from table side. - One single joystick for patient angle oriented operation of C-arm and change of source image distance (SID). - Integrated computerized collision protection - C-arm positioning 0° to the head end and variable up to 135° to the left and right side along the patient longitudinal axis. - Double oblique projections of ±100° in orbital movements and up to 330° (+180°/-150°) in rotational movements. - Variable C-arm speeds up to 25°/s. - Variable focal-spot-to-detector distance between 90 cm and 120 cm. - Isocenter-floor distance 108 cm. - Focus-isocenter distance 78.5 cm. MULTISPACE.T The stand can be positioned on the left or right of the patient or at the head end, or at any angle in between. It can be moved longitudinally to any position along the length of the patient and also has a park position at a sufficient distance from the patient. In Focus allows the projection angle to the patient to remain unchanged when rotating the C-arm around the table. IsoTilt allows the projection angle to the patient to remain unchanged when tilting the patient table (if the tilting function is available). Both In Focus and IsoTilt improve the efficiency of an examination because there is no need to spend time adjusting the projection angle. **Patient table configuration** <u>Table</u> - Direct patient access from all sides, both through the swiveling table and large tabletop cantilever. - Electromechanical release of table swivel at the touch of a button at the table.

Part No./Product	Description
	- Telescopic foot with motor-driven height adjustment. - Maximum patient weight: 250 kg. It is possible to install up to 40 kg of additional accessories, plus a further 100 kg for patient resuscitation. The table can be rotated to ensure quick access to the patient even in emergency situations. <u>Tabletop</u> 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. <u>Mattress</u> Matching, special-foam mattress, 4 cm, incl. a latex-free cover. This visco-elastic comfort mattress reacts to temperature and has the special property of adapting to the individual body shape under the influence of body weight and heat. <u>Application-specific accessories</u> - ECG cable clips - Unilateral armrest: Carbon fiber armrest for cardiology and arm angiography to slide underneath the positioning mattress. - Infusion bottle holder - Instrument tray: Plastic instrument tray to be positioned at the patient table above the patient. It is swivable and height-adjustable, so that it can be positioned directly or sideways above the patient. - Arm holder (1 pair): Two arm holders for comfortable lateral arm positioning along the patient's body. - Hand switch for radiation release and additional control functions. If narrow tabletop is selected: - Head-end holder: Accessory rail plus holder, which is installed at the head end of the narrow tabletop. For attaching hand grips, shoulder supports, head supports, articulated arm supports, and anesthesia curtain. - Handgrips with support The patient can hold on to these hand grips with his arms above his head resting comfortably on the supports. This is beneficial for examinations requiring the arms to be held in a specific position. The two stainless steel hand grips with two radiolucent arm rests (12.5 x 24.5 cm/ 4.9" x 9.65") are mounted to the accessory rails of the head-end holder. It can only be used in combination with the narrow tabletop and with the head-end holder. **Operating modes** <u>Fluoroscopy</u> - Digital pulsed fluoroscopy with pulse frequencies of 7.5 p/s, 10 p/s, 15 p/s, and 30 p/s in 1k/12 bit matrix. Pulse rates of 0.5 - 4 p/s are also possible with CAREvision. - Overlay fade: On-line overlay of the reference image onto the active fluoroscopy. This improves efficiency and safety during interventional procedures because additional information which is clinically necessary can be displayed directly in the live fluoroscopy image. <u>Card acquisition</u>

Part No./Product	Description
	Digital card acquisition technology with frame rates of 7.5, 10, 15, and 30 f/s acquisition, display, and storage in 1k matrix. Digital acquisition technology Digital acquisition technology with frame rates of 0.5 to 7.5 f/s in 1k/12 bit matrix and digital real-time filtration. Single image and serial acquisitions with time-controlled and manually variable frame rate. The 1k image matrix with a bit depth of 12 bits allows an excellent image contrast by using 4,096 shades of grey. Thus, the image quality meets highest expectations in angiography and fulfills all prerequisites for precise diagnostics and safe interventions. Digital Subtraction Angiography: Digital Subtraction Angiography with frame rates of 0.5 to 7.5 f/s, including pixel shift, remask, roadmap, peak opacification for iodine contrast (MaxOpac), and CO_2 contrast (MinOpac); adding of the anatomical background (landmark) from 0 to 100%. Includes the "Advanced Roadmap" additional function which offers the following clinical benefits: - DSA image can be selected as a mask for Roadmap - Zoom can be changed during Roadmap - Catheter and vascular contrast can be changed separately Unexpected patient movements in DSA acquisitions can be corrected easily with Auto Pixelshift. This saves time for the user and improves image quality. **CLEARmap** Special 2D Roadmap operating mode creating a vessel map from a DSA-scene using Maximum Opacification technique. As an additional operating mode, you can also decide to pick one frame out of a DSA run (i.e. for venous access in Roadmap). This provides improved image quality compared to conventional Roadmap and reduces x-ray dose and contrast media. **CLEARmatch** Automatic/Online pixel shift processing for most accurate subtracted image display during Roadmap and DSA based on real time movement detection and compensation. Six degrees of freedom – vertical, horizontal, rotational, zoom and shearing movement (left and right) - allowing highest possible efficacy. In order to show the most recent information in raw format, the pixel shift operation is applied to the mask image. This optimized way of pixel shifting ensures a perfect match of Roadmap image and native fluoro image, being shown at the Assist monitor. **CARE package** ALARA principle Siemens follows the ALARA principle: "As Low as Reasonably Achievable"; the CARE package (Combined Applications to Reduce Exposure) was developed based on this research and development principle to protect the examiner and the patient. Dose saving

Part No./Product	Description
	- CAREfilter: Intelligent control software that minimizes X-ray dose. During fluoroscopy and acquisition, special copper prefilters are automatically inserted into the X-ray beam depending on current X-ray transparency, which is calculated continuously. This is necessary to ensure that the optimal prefilter value is always active. This automation makes work easier for the user because the optimal filter setting need not be adjusted manually for each case. The adaptive Cu prefiltration has five steps (0.1, 0.2, 0.3, 0.6, 0.9 mm) and is used to lower the reference air kerma and improve radiation quality by reducing the low-energy X-ray radiation. - CAREvision with zen30HDR detector: Pulsed fluoroscopy with additional, reduced pulse rates of 0.5, 1, 2, 3, 4 p/s. Adaptation of pulse rate to the current application requirements for significant reduction of radiation exposure, especially during interventional procedures. - CAREprofile: Radiation-free positioning of the primary and semi-transparent diaphragms by means of graphic display in the LIH (Last Image Hold). Collimator shutters and semi-transparent filters can be adjusted as a graphical overlay on the last-image-hold without any need for fluoroscopy or radiation. - CAREposition: Radiation-free object repositioning by means of graphic display of the X-ray center beam and image edges in the LIH image. With CAREposition it is possible to reposition the object under visual control without radiation. - In case of table movements, the current position of the central beam and the image edges are superimposed on the LIH image as orientation points. - Low dose acquisition: enables dose savings of up to 67 % during the examination. The Low Dose Acquisition protocol can be released with a separate pedal on the footswitch. <u>Dose monitoring</u> - CAREwatch: Display of the measured dose-area product and the calculated patient reference air kerma on the flat-screen display. Electronics unit with DIAMENTOR measurement chamber integrated in the collimator housing for dose acquisition. Configurable screens on the data display and imaging system monitor: During fluoroscopy: Reference air kerma rate. During fluoroscopy interval: Accumulated reference air kerma or dose-area product, or percentage of the reference air kerma limit (total from fluoroscopy and acquisition). - CAREguard: Monitoring the reference air kerma. If the accumulated reference air kerma exceeds one of the three configurable limits, a warning appears on the live display and tableside on the touchscreen control. This allows ideal monitoring of the accumulated reference air kerma during the examination. - CAREmonitor: Special model-based monitoring of the measured skin entry dose, taking into account the geometric conditions of the system (actual device angulation, table position, patient weight, patient size). It then continually displays whether the skin entry dose applied to a specific region of the patient's body exceeds a specific configurable upper limit. CAREmonitor continually calculates and displays the actual accumulated skin entry dose as a portion of this upper limit. This helps the user to detect a potential patient hazard at an early stage. The patient is therefore better protected against the damaging effects of radiation. <u>Dose documentation</u> - CAREreport: Dose information as part of the DICOM Structured Report. After each examination, the information is available in DICOM format and can be sent to a DICOM archive together with the image data, for example. Saving dose information in DICOM format also enables flexible analysis and further processing via a DICOM-capable analysis software/database. - CARE Analytics: Standalone PC program for analyzing doses in angiography, CT, and radiological examinations. The data can be exported to statistics programs such as Microsoft Office Excel and SPSS for further analysis. CARE Analytics is available for download from the Siemens Intranet.

Part No./Product	Description
	CLEAR MAX CLEAR MAX enables maximized image quality through real-time processing of the image data without increasing the radiation dose, enabled by new computer hardware and algorithms. This results in improved contrast and sharpness for better visualization of small vessels, devices, tissue and bones at the same dose level. - CLEARpulse optimizes the X-ray pulse in two ways: the high pulse power allows for additional filtration to reduce radiation. In addition, CLEARpulse shortens the X-ray pulse through the use of grid-pulsed flat emitter technology in concert with a high anode rotation speed. The required X-ray energy can be provided in a shorter period of time, thereby shortening the X-ray pulse by up to 43% at constant tube voltage. Moving objects like coronary arteries can be visualized sharper and with less blurring artifacts. - CLEARcontrol: The new histogram analysis provides a more homogeneous image impression by harmonizing over- and underexposed areas of the image. This is done fully automatically, thus eliminating any further manual user corrections through windowing. - CLEARview: Dose-dependent filtering of the image data efficiently suppresses image noise, enabling clear, sharp images, even for low-dose acquisitions. - CLEARvessel: Every pixel is analyzed in real time, and vessel edges are shown in high contrast without adding noise to the image. - CLEARmotion: Fine moving structures, such as small vessels and guidewires, are detected in the image and motion artifacts are suppressed efficiently. The visibility of small moving vessels and guidewires is improved significantly during fluoroscopy. In addition, there is Dynamic Density Optimization (DDO) for on-line harmonization of native series and single images. **Image generation** <u>X-ray generator</u> Microprocessor-controlled high-frequency X-ray generator with automatic dose rate control. - Power output: 100 kW at 100 kV (IEC 60601-2-7 and IEC 60601-2-54). - SID tracking: Automatic tube current adaptation to focal-spot-to-detector distance. - CAREmatic: Automatic X-ray control system for fully automatic calculation and optimization of exposure data based on fluoroscopic data. - Patient transparency monitoring. - Tube load monitoring with indication in the live display. The optimal X-ray parameters depend on the transparency of the patient at the current angulation, measured during fluoroscopy. These parameters are continuously calculated and updated. Test shots are no longer required. This ensures superior image quality and minimum radiation exposure for user and patient with every exposure release. <u>GIGALIX 125/40/90 - X-ray tube assembly</u> Dual-focus high-performance X-ray tube assembly with unique flat emitter technology for generating extremely high tube currents of max. 250 mA in fluoroscopy and 1000 mA in acquisition. This provides very good image quality even with heavier patients or steep angulations. The focus is always quadratic and permits outstanding perceptibility of small structures with a nominal focus of 0.4/0.6. The anode has a high heat storage capacity of 5.2 MHU and the metal center tube with liquid bearing technology allows a maximum cooling power of 1520 kHU/min. This means that pauses are not required during radiation, even for lengthy procedures. The X-ray tube is almost silent, which is an additional benefit for patient and user.

Part No./Product	Description
	zen30HDR Flat Detector (High Dynamic Range) The flat detector is based on a new crystalline silicon technology. The active sensor matrix enables strengthening of the signal directly at the pixel, reducing the electronic noise especially for fluoroscopy. Catheters and vascular prostheses can be displayed with extremely low dose, reducing radiation exposure for the patient and personnel. It is particularly beneficial for complex procedures with long fluoro times and when treating children. 160 µm pixel arrays provide highest spatial resolution of up to 3.1 LP/mm and excellent contrast. The detector features 16-bit analog-to-digital conversion, resulting in an extremely high gray scale resolution of 65,536 gray scales. The extremely short readout time of the detector (2 ms) opens the possibility of higher frame rates in the future. Fluoroscopy as well as image acquisition are always done in 1k matrix and 16 bit gray scale resolution with high detail visibility. Acquisition frame rates of up to 60 f/s are possible. Usable input formats: - Overview: 26.1 cm x 28.7 cm; diagonal 39 cm. - Zoom 1: 22.5 cm x 22.5 cm; diagonal 32 cm. - Zoom 2: 18.7 cm x 18.7 cm; diagonal 26 cm. - Zoom 3: 14.3 cm x 14.3 cm; diagonal 20 cm. - Zoom 4: 11.3 cm x 11.3 cm; diagonal 16 cm. - Zoom 5: 7.2 cm x 7.2 cm; diagonal 10 cm. The compact design with integrated collision protection provides maximum C-arm angulation range for excellent patient access. Motorized adjustment of the detector-patient distance. The grid can easily be removed, saving the user time in examinations not requiring a grid. For example in pediatrics, where dose reduction is especially important. **Collimator** Compact multileaf collimator with rectangular blade, wedge-shaped finger filters for DSA and cardiological applications and graduated filter. - Independent rotation and shift of filter blades - Automatic synchronous rotation of detector and collimator unit to compensate image rotation at the different examination positions of the support stand. - Rotation also possible via table side control enabling upright images of objects or body parts not aligned with the table e.g. arms. - Manual rotation of the detector and collimator unit using the control right on the detector housing. - Five-step adaptive Cu pre-filtration (CAREfilter) to reduce the equivalent skin dose and improve radiation quality through dose saving for the soft radiation parts. Filter steps: 0.1; 0.2; 0.3; 0.6; 0.9 mm Cu. Electronics unit with DIAMENTOR dose measurement chamber integrated in the collimator housing, for acquisition of the dose-area product and the calculated patient entry air Kerma at the patient entrance reference point (CAREwatch). StraightView

Part No./Product	Description
	The flat detector and the multileaf collimator are installed on a motorized rotating turntable on the C-arm. They automatically line up with the table swivel, thus ensuring upright images of objects which are in line with the table. The flat detector and multileaf collimator can also be rotated together at any angle relative to the table, enabling upright presentation and collimation of objects which are not in line with the table. **Image processing** - Image display as positive and negative, windowing, contrast and brightness control, electronic display shutter, image shift (roaming), vertical and horizontal image inversion, magnifying glass, and zoom functions - Storing of single images as reference images for acquisition and fluoroscopy - Quantification: angle and length measurements, automatic and manual calibration - Text functions: user-definable image annotation, free annotation or by means of text components, comments line for the image, R/L display - Fast and direct access to all series, single images, reference images, and photo file images via MULTIMAP. Access possible both in the examination and in the control room for displaying or post-processing images **Imaging system** <u>Dual architecture</u> In order to provide highest level system availability, the imaging system consists of two independent computer systems that manage central tasks such as real-time image processing during fluoroscopy or acquisition as well as post-processing and networking functionality separately from one another. This ensures the best possible system performance and availability. <u>Image storage capacity</u> 25,000 images in 1k/12 bit image matrix. This can be optionally extended to 50,000 / 100,000 images. **Image export and networking** <u>DVD/CD burner</u> DVD drive for automatic digital image storage in the background on DVD-/CD-ROM for off-line data exchange in DICOM format. <u>Networking</u> - Network interface (1000 BaseT) with the following integrated DICOM services: - DICOM Send: Sending of images into the DICOM network: The DICOM Send function enables fully automatic transfer of generated image data to a DICOM archive and/or a DICOM workstation. The user can perform his examinations without interruption, while the system is fully automatically transferring the images to the archive scene by scene. This is a background process, and thus does not interfere with the ongoing fluoroscopy or acquisition. - DICOM Storage Commitment (StC): Feedback from the image archive. The DICOM StC function automatically gives feedback on whether the generated image data were successfully transferred. This provides the necessary certainty to the user before deleting the acquired images locally in the imaging system.

Part No./Product	Description
	- DICOM-Query/Retrieve: Retrieval of archived images from a digital archive or from a workstation: Already archived image data from a previous examination can be fully retrieved and is then available for review and processing. The user can request CT or MR system images from the archive and display the image in the examination room. There is no need for a separate workstation. - DICOM Structured Report: All the quantification results obtained on the system as well as all dose information on the individual radiation releases can be saved in DICOM SR (enhanced SR) format and transferred to a DICOM network. Note concerning DICOM interface(s) The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s). Functionalities across interfaces with/between partner systems require explicit validation, since the interpretation of the interface by the partner/target system is not part of the product's responsibility. A modification of the interface that might be required is not included in the offer; e.g. for the rare case that available configurations are not sufficient. With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply. **Display and display suspension** Displays in the exam room Live and Assist displays are 19" TFT color and gray scale flat-screen displays with high luminance and extended viewing angle. - Screen size: 19" (48 cm) - Resolution: 1,280 x 1,024 (pixels) - Excellent brightness for the entire service life: 400 cd/m² at a contrast ratio of 1000:1 - Flicker-free and distortion-free image display - Ambient light sensor for optimum adaptation of the image display to the room brightness Reference images are shown on the Assist display. Data for device and table position, dose data, and system messages are displayed in the examination and control room on both the live and the Assist display. Displays in the control room 19" high-contrast display for live image display in the control room is included as a desktop version. Display suspension Ceiling-mounted, swiveling, rotating, and height-adjustable display suspension system with longitudinal travel. It features two 19" high-contrast TFT displays for live and reference image display in the examination room (Standard configuration – unless modified). **Operation** *syngo* The intuitive syngo operating elements allow for managing the whole process from preparation of the patient to image post processing in a safe, reliable, and time efficient way. Footswitch

Part No./Product	Description
	A 4-pedal wired footswitch to release fluoroscopy, exposure, and table brake as well as a configurable additional function is included as standard. In the examination room For an ideal workflow, full operation capabilities for the system can be accessed directly at the patient table. These include complete system operation through modular control elements for controlling C-arm movements, the patient table, and the multileaf collimator. *syngo*-based touchscreen with multi-functional joystick for operation of the imaging system, including post-processing and quantification as well as selection of the organ programs. The touchscreen is specifically configurable to individual clinical requirements. This means that the user can operate the system on their own without having to leave the examination room if this is deemed necessary by the situation. In the control room Standard Siemens syngo control via country-specific keyboard and mouse for all imaging system functions such as image post-processing, storing, and configuring of organ programs. **Smart Remote Services** Prepared for Smart Remote Services (during warranty, then with service contract): - Hardware and software remote diagnosis. - System remote configuration, e.g. adding of a DICOM node. - Early warning system ensuring system operation. ***syngo* Evolve** *syngo* Evolve is a service feature that is offered as a separate sales option. It is a key component of our upgrade strategy and allows you to take advantage of technological advancements. **Customer Care – the customer care solution from Siemens Healthcare** From the moment you purchase your Siemens system you will benefit from many services that are offered by "Customer Care"*. These include: - Initial application training - Interactive e-learning for various applications - Free customer magazines - Arrangements for clinical training via a global network - Free trial licenses You will find information on our e-learning program and further details on general "Customer Care" services on the Internet. * The availability of "Customer Care" services may be restricted for some systems. **User Training** Siemens recognizes the significant investment you are making in purchasing a new imaging system and are determined that you are able to realize the full capability of this new system. Siemens clinical applications training ensures you have every opportunity to fully utilize your new system. Content of user training: Handover Training and Follow-up Training - Introduction to the functions, options, and handling of the Angiography system

Part No./Product	Description
	- Instruction on the use of the Angiography system together with modern, highly-developed applications Delivery & duration of the user training varies and may be country specific so for additional information please contact your local Siemens representative.
14432948 **Automap**	Automap optimizes the procedure workflow, especially during interventions. A selected reference image displaying the needed medical information (e.g., before dilatation) is used as the basis for moving the system to the correlated position automatically. The intervention can be continued immediately without manually repositioning the patient. On the other hand, the system is able to select a reference image for the current device position. In case of changes in device position, this enables the user to see the corresponding reference images quickly and safely.
14434142 **narrow TT thick mat. ins of std. TT**	The visco-elastic comfort mattress for narrow tabletop reacts to temperature and has the special property of adapting to the individual body shape under the influence of body weight and heat.
14432943 **Vascular analysis**	Measuring program integrated in the imaging system for objective, precise and reproducible evaluation of vessels. - Automated contour detection - Determination of degree of stenosis - Automatic and manual reference diameter determination - Automatic and manual calibration methods - Distance and angle measurement The Vessel analysis allows precise quantification under sterile conditions, direct at table side with the touchscreen control. This speeds up the intervention and makes the procedure safer for the patient. The reports can be easily stored in the patient folder for documentation and to show the correct analysis of dilatations etc. Especially to be used for vessel sizes between 0.5 mm and 50 mm.
14434231 **Sec. operation in the control room**	Rail profile (short table attachment) for table operation: - Weight: 1.4 kg - Rail length: 12 cm - Width: 20 cm - Height: 14.5 cm Rail profile (long table attachment) for device operation (with or without table operation): - Weight: 2.8 kg - Rail length: 25 cm - Width: 20 cm - Height: 14.5 cm
14432950 **DICOM RIS-Modality Worklist**	Note concerning DICOM interface(s) For diagnostic purposes, only hardcopy cameras/laser printers explicitly approved for this system may be used. The description in the DICOM Conformance Statement downloadable from the Internet is exclusively binding for the functionality of the DICOM interface(s). Functionalities across interfaces with/between partner systems require explicit validation since the interpretation of the interface by the partner/target system is not part of the product's responsibility. A modification of the interface that might be required is not included in the offer, e.g. for the rare case that available configurations are not sufficient.

Part No./Product	Description
	With regard to expenses for interface configurations that might be required, the agreements on maintenance/service of the product apply.
14434201 **OEM recording system interface**	Cable connection to the OEM measurement system for ECG triggering. Necessary requirement for ECG-triggered Dyna CT card and for ECG triggered fluoroscopy.
14432942 **LV Analysis**	Scientific measuring program integrated in the imaging system for evaluation of the functionality of the left ventricle. - Automated and manual contour detection - Automatic end-diastole/end-systole detection - Calculation of ejection fraction, volumes, and indices (area, length, and Simpson methods) - Centerline, radial and regional wall movement analyses - Automatic and manual calibration methods - Distance and angle measurement
14432952 **syngo Security Package (SW lic.)**	This SW license enables your system to support enhanced user and system management, including: - User authentication to prohibit unauthorized access - Privileges to define user/role-based functionality - Permissions to control data access - Audit trails to log system and data access
14434176 **Large Display video controller 18**	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). Important images for diagnostic purposes can be displayed to scale in their original size on the Large Display. Less important, non-diagnostic information can be displayed at a reduced size by the interpolation algorithm for image information integrated in the video controller. An enlarged or reduced display can be selected individually via the display configurations at the fully integrated tableside control. The video controller then takes over interpolation and adaptation of image size. In waveform images with high resolution, such as for electrophysiological recording systems, the curves are displayed free of artifacts because of a special interpolation algorithm.
14440573 **Add 19" display for LD (rear mount)**	The Display is attached to the rear of the DCS Large Display. Mounting brackets are already available. Flat display in TFT technology with high luminance and extended viewing angle. - Screen size 19": 48 cm - Resolution: 1280 x 1024 (pixels) - Excellent brightness for the entire service life: 400 cd/m² at a contrast ratio of 1000:1 - Viewing angle (horizontal and vertical) 176 degrees - Flicker-free and distortion-free image display - Ambient light sensor for optimum adaptation of the image display to the room brightness
14443012 **LD High Contrast panel size 55"**	**Large color flat display** The IPS panel technology combined with the large display area represents a new dimension in medical image display.

Part No./Product	Description
	This technology combines high luminance and high contrast, consistent for all viewing angles. It provides an incomparable image impression especially for gray scale images. For the diagnostic color display in TFT technology, with high luminance and extended viewing angle, the gamma curve has been adapted particularly for gray scale display according to the CIE / DICOM recommendation. Technical specification for the 55” display: - Display size: (W x H) 55“, 121 cm x 68 cm - Screen size: 55“, 139 cm - Resolution: 3840 x 2160 (pixels); 8 megapixels at 4 x HD - Color depth: 1.07 10^9 colors - Excellent brightness over the lifetime: 400 cd/m² at a contrast ratio of 1450:1 - Flicker-free and distortion-free image display Backup concept The Large Display has a backup concept to ensure against power supply failure (2 separate power supplies for the left and right sides of the Large Display).
14465217 **Large Display diagn. protection**	The high-quality 55” laminated glass protective screen protects the panel of the monitor against mechanical damage and fluid ingress on the front. The protective screen is suited for clinical image evaluation. Features: - The laminated glass enforces high mechanical strenght and resistivity against mechanical impact. - Special coating reduces reflections for a continuous image quality. - Excellent spectral transmisison of at least 98%. - Screensize: 55" - Weight: approx. 12kg Note: Observe the maximum permissible load of the display suspension. A combination with other options mounted to the display suspension might be restricted.
14455598 **Artis Freestyle Access cable kit**	Preparation for the dedicated ACUSON Freestyle Elite ultrasound system on the Artis to allow for viewing of ultrasound images at the Large Display, transfer of demographic patient information, and mounting of the ultrasound system on the back of the Large Display. The solution works in combination with “ACUSON Freestyle Elite w. Artis Access” ultrasound system (to be ordered separately - not included in this part number).
14434174 **1st Large Display w/o holder**	**Preparation for the large display** The large display area allows for both large display and the free positioning of examination-relevant video signals. The fully integrated tableside control allows for selection from among twelve layout variants. For the diagnostic color display in TFT technology, with high luminance and extended viewing angle, the gamma curve has been adapted particularly for gray scale display according to the CIE / DICOM recommendation.

Part No./Product	Description
	Video signals such as live, assist and reference images, *syngo* X-Workplace, Sensis/recording systems, PACS, HIS/RIS, ultrasound, ECG, external video, endoscope, mapping systems, system and table position, system messages, and dose information can be individually positioned and displayed on the large display, if connected. The extended Roadmap function is included, if DSA is available: - Native live fluoro image during fluoroscopy; otherwise Last Image Hold. - Native live fluoro image during roadmap / subtracted fluoroscopy; otherwise Last Image Hold. - Native live acquisition during DSA acquisition; otherwise native max-fill image. If the dual reference function is available, parallel static reference images are displayed on both reference monitors. **Bypass concept** In case of error, such as controller failure, the large display switches automatically to bypass mode and emergency fluoroscopy is displayed on the large display. **Backup concept** The large display has a backup concept to ensure against power supply failure (2 separate power supplies for the left and right sides of the arge display). Note: The type of large display can be chosen with a separate position.
14434188 **Artis Cockpit - 1 console**	Functionality: - Four screen layouts can be selected with a click of the mouse. - The four screen layouts per monitor can be configured from a previous selection. - The position of the image sources in the layout can be changed via Drag and Drop. Contents A controller with the following technical specifications: - 7 digital video inputs: DVI single link, up to 165 MHz (6 HDMI, 1 DVI-I) - Video bandwidth: Maximum aggregated bandwidth of 360 Mpixels/s - 2 analog video inputs - Network connection: 110/100 Base-T Ethernet port A high-resolution 30“LCD color display corresponding to the medical standard, with high luminance and extended field of view: - Screen size: 29.8" (76 cm) - Resolution: 2560 x 1600 (pixels) - Guaranteed brightness for the entire service life: 400 cd/m² at a contrast ratio of 800:1 (where black = 0.5 cd/m²) - Viewing angle (H, V): 170°, 170° - Calibration according to DICOM (Part 14) standard - Ambient light sensor for optimum adaptation of the image display to the room brightness. Information on connecting third-party systems to the Artis Cockpit When connecting external video signals to the Artis Cockpit, note the following requirements to display images from third-party video sources: - The connection of third-party devices is only permissible if they meet the specifications of the Cockpit interface.

Part No./Product	Description
	- The connection of the Cockpit interface to the Cockpit controller must be performed by a Siemens service technician. - The connection to the third-party device must always be performed by the technician of the third-party company or by the responsible on-site hospital technician. - Siemens cannot assume any warranty for the connection of the third-party device with respect to the image quality and its suitability for diagnosis. - For this reason, it is strongly recommended that the image quality tests prescribed by the third-party manufacturer are performed again prior to use. These tests can ensure that the required image quality is achieved. - The system configurator is responsible for ensuring that the valid versions of the relevant standards are met. <u>Note the following conditions if video signals are to be shown on a third-party provider display:</u> - The display of external video signals depends on the operational state of the Artis system. If the Artis system has a malfunction or is shut down, the display of external video signals is no longer possible. For this reason, do not feed the video signal into the Artis system if lacking the external video signal could result in a hazardous situation. - A third-party provider's unit may be connected only if it corresponds to the specifications of the video interface on the Siemens system. - The connection may only be established by a Siemens service technician. Attention: The connection must be made with fiber-optic cables to ensure that the unit's galvanic isolation is maintained. - A third-party provider's unit must be connected by a technician from the third-party provider or by a hospital technician responsible for the equipment. - It is strongly recommended that a test of image quality be performed by the third-party provider prior to start-up. This test ensures that the required image quality is achieved. - The person placing it on the market is responsible for ensuring that applicable standards are maintained in the current version, e.g. 4 kV insulation Siemens will not be held liable for the inclusion of third-party provider units with respect to image quality and their suitability for clinical diagnosis <u>If an external component is connected to the Cockpit system via a USB port - using a separate keyboard as the operating unit - the following must be observed:</u> - The external component must support the use of a standard keyboard with 104 keys. - If this requirement cannot be met, the third-party device can only be operated directly via the keyboard supplied by the manufacturer of the device. A USB connection between the Cockpit and the external component is then not permissible and therefore operation using the Cockpit *syngo* keyboard is not possible. **These instructions must be followed; otherwise, operating errors and loss of data may result.** Please refer to the Cockpit operating instructions for the key assignment of the *syngo* keyboard and the standard 104-key keyboard.

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Part No./Product	Description
E93PM150UAX Eaton 93PM-150 kW UPS	Eaton 93PM-150/150 4-Wire UPS Electronics Cabinet: 150kW Frame cabinet with three (3) Power Modules (UPM) configured as a 150kW capacity system specifically for a medical imaging application. 480 volts input / 480 volts output, 4-Wire + Gnd. Double Conversion Topology, Unit efficiency up to 97% (up to 99% with ESS), Unit output rating @ Unity Power Factor, Input current distortion < 3% @ 100% load, Patented ABM Technology, Patented HotSync parallel firmware control, Scalable Architecture, Parallel Redundancy and Capacity capable. Onboard monitoring of UPS status via front panel display is standard. Includes single feed input with three (3) circuit breaker (BIB, MBP, MIS) integrated maintenance bypass in a 14.7" wide right-mounted sidecar. Four (4) internal min-xslot communication card bays. One (1) Power Xpert Gateway UPS Mini-Slot Card (PXGMS) included. Included Services: Start-up (7x24): PLUS One (1) year on-site labor coverage (7x24). UPS Cabinet Dimensions: 36.7”W x 42.0”D x 74.0”H UPS Cabinet Weight: 1,566 Lbs. Eaton 93PM 480Vdc Battery System: One (1) IBC-L Integrated Battery Cabinet consisting of one (1) string of 240 cells (@480Vdc), 40 Batteries, and 500A Circuit Breaker in cabinet. Full load back-up time @ 150kW of 7.1 minutes. Battery Cabinet Dimensions: 32.3”W x 42.0”D x 74.0”H Battery Cabinet Weight: 4,225 Lbs. Eaton 93PM Remote Monitoring Device: Wall-mounted display panel for monitoring the UPS status in the imaging suite when the UPS is located elsewhere in the facility. Requires Power Xpert Gateway Mini-Slot Card for interface with the 93PM UPS (included with the 93PM UPS quoted above). RMP Dimensions: 5.9”W x 0.8”D x 3.2”H RMP Weight: 0.5 Lbs. Eaton Power Xpert Gateway UPS Mini-Slot Card (PXGMS): This card can provide Web/SNMP and Modbus TCP/IP connectivity and functionality for the 93PM UPS system for the purpose of remotely monitoring the status of the UPS via an Ethernet network connection.
14432925 PERISTEPPING / PERIVISION (Optional)	Excellent image quality from the abdomen to the feet is due to the fact that adjustable parameters such as acquisition frame rate, measuring fields, position of collimator blades and semitransparent filters are stored specifically for each table position. That way the different X-ray transparencies for abdomen, legs and feet can be compensated and a consistent image quality with best possible contrast is achieved. Just one single injection of contrast media protects the health of the patient and gives the physician an instant, subtracted image display of the peripheral blood vessels. <u>Peristepping</u> Peripheral digital stepping angiography with only a single contrast medium injection under visual control of the bolus flow. C-arm stepping with ARTIS pheno and ceiling mounted systems, table stepping with floor mounted and biplane systems. - Position-dependent variable frame rates - Fully automatic exposure control - Automatic storage of the collimator setting for each step <u>Perivision</u> Peripheral digital stepping angiography with online subtraction display in an examination procedure with only one single contrast medium injection under visual control of the bolus flow. - Only one single automatically acquired mask image for each individual position

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Part No./Product	Description
	- Position-dependent variable frame rates - Fully automatic exposure control Automatic storage of the collimator setting for each step

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Artis Access Freestyle Elite- for Artis Q, Q.zen, zee, zeego w/ Siemens DCS

Part No./Product	Description
11002300 ACUSON Freestyle Mainframe	Standard features include: Supports cable-free transducers One (1) transducer cable adapter One (1) battery for cable-free transducers High resolution flat panel display A/C and battery operation Two (2) charger bays for cable-free transducer batteries Push button rotary control* * Push functionality is only compatible with release 4.0 systems
11004071 FREESTYLE, 4.1, ARTIS KIT, VD11	Included with the External Antenna is an installation kit that provides mechanical hardware for the antenna and the ACUSON Freestyle Elite ultrasound system to be mounted to the rear of a Siemens Healthineers Artis VD11 Large Display. It also provides a DisplayPort - DVI cable to enable the ACUSON Freestyle Elite ultrasound system ultrasound image to be shown on the Large Display.
11004370 FREESTYLE, TRNSDCR, L8-3	- Array type: Linear - Number of elements: 128 - Depth 1.5-9.0 cm - Frequency bandwidth: 3.0-8.0 MHz - Footprint: 38.4 mm x 5.0 mm - B-mode, Color Doppler, Amplitude Doppler - Needle Guide Kits available Suggested exam types: Abdominal, Pediatric, Small Parts, Peripheral Vessel and vascular, Musculoskeletal.
11003759 FREESTYLE, STAND ALONE CHARGER KIT	Additional accessory - can be sold with any ACUSON Freestyle System

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ARTIS Q/Q.ZEN/ZEE CEILING
TYPICAL ROOM PLAN

The intended use for this Cut Sheet is to communicate the spatial requirements as well as the basic architectural, electrical, structural, and mechanical requirements for this piece of imaging equipment. The information provided in this document is for reference only, during the pre-planning stage, and therefore does not contain any site specific detailed requirements. This information is subject to change without notice. Federal, state and/or local requirements may impact the final placement of the components. It is the customer's responsibility to ensure that the final layout and placement of the equipment complies with all applicable requirements.

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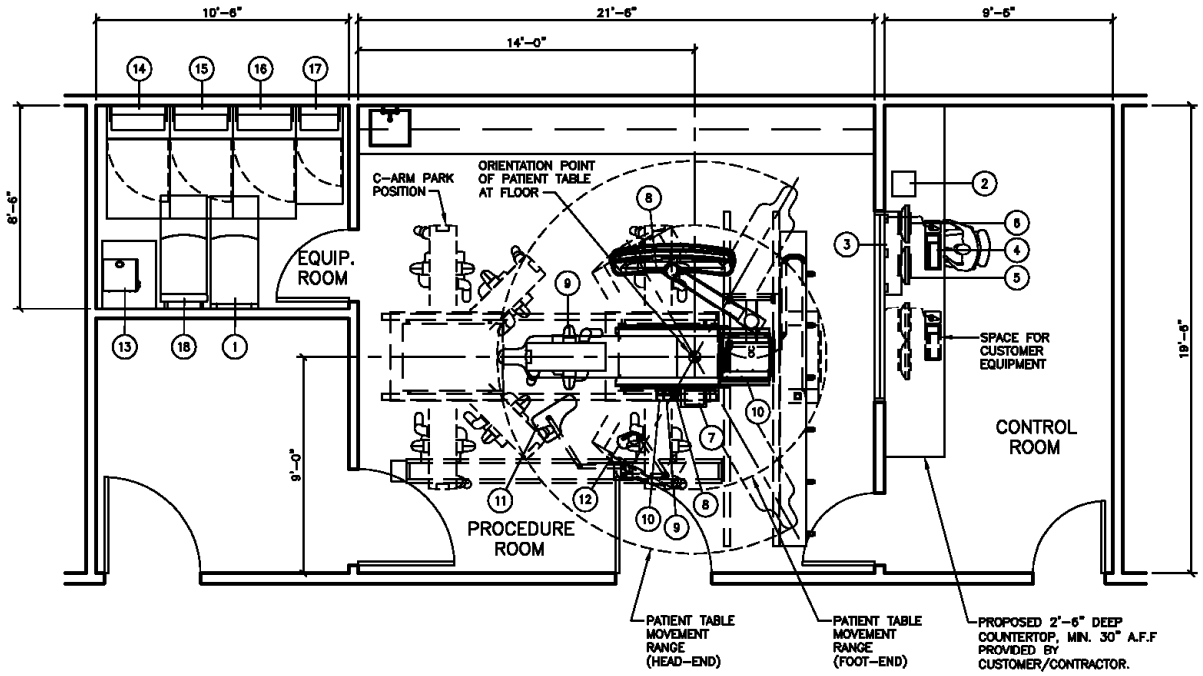
ARTIS Q/Q.ZEN/ZEE CEILING

TYPICAL ROOM PLAN



TYPICAL PLAN SCALE: 1/8" = 1'–0"

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES) W	D	H	REMARKS
1	IMAGE SYSTEM	IS	331	4,347	23	37 1/2	28 3/8	MTD. ON CASTERS
2	ACE (ARCHIVE CONTROL EXTENSION)		13	N/A	12 1/4	11 3/4	4	MTD. ON CONTROL COUNTER
3	CONTROL ROOM DISTRIBUTOR	DI	64	342	41 1/2	8 1/4	16 1/8	MTD. ON WALL
4	KEYBOARD		2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
5	19" MONOCHROME LIVE DISPLAY		15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
6	19" MONOCHROME REFERENCE DISPLAY (OPTION)		15	256	16 1/2	8 1/4	13 1/2	ON COUNTER OR CONSOLE
7	TABLE CONTROL MODULES		13.8	---	16 1/2	8 3/4	3 1/2	ON TABLE OR TROLLEY
8	DCS LARGE DISPLAY (OPTION)	D1	407	1,706	167	45 3/8	50 3/4	CEILING SUSPENDED
9	ARTIS ZEE / Q / Q.ZEN CEILING C–ARM STAND	P1	1,994	682	---	---	---	C–ARM CEILING SUSPENDED
10	PATIENT TABLE (OR TABLE)	T1	1,169	683	---	---	---	TABLE FLOOR MOUNTED
11	UPPER BODY RADIATION SHIELD 4 M TRACK (OPTION)		196	---	---	---	---	TRACK MOUNTED
12	MAVIG R96 O.R. LAMP (OPTION)		48	---	---	---	---	
13	KLUVER COOLING UNIT	KU	93	13,649	18 3/4	15 1/2	18 3/4	FLOOR OR SHELF MOUNTED
14	POLYDOROS A100 GENERATOR CABINET	MU	723	4,094	31 1/2	17 1/8	87	FLOOR MOUNTED
15	CABLE CABINET	CC	265	---	31 1/2	17 1/8	87	FLOOR MOUNTED
16	SYSTEM CONTROL CABINET	SC1	655	5,460	31 1/2	17 1/8	87	FLOOR MOUNTED
17	SYSTEM CONTROL CABINET (O.R. TABLE ONLY)	SC2	276	682	23 1/2	17 1/8	87	FLOOR MOUNTED
18	LARGE DISPLAY CONTAINER FOR DCS LARGE DISPLAY (OPTION)	DC	253	1,535	23	37 1/2	28 3/8	MTD. ON CASTERS

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ARTIS Q/Q.ZEN/ZEE CEILING
SPECIFICATIONS

TRANSPORT/STORAGE FLAT PANEL DETECTOR

IN SYSTEMS WITH FLAT PANEL DETECTORS, THE DETECTOR IS REMOVED FROM THE STAND FOR TRANSPORT TO THE CUSTOMER. THE LIMITED TRANSPORT AND STORAGE CONDITIONS APPLY FOR THE DETECTOR.

FLAT PANEL DETECTOR:

TEMPERATURE RANGE: 14° F TO 131° F
RELATIVE HUMIDITY: 20% TO 95% NON CONDENSING
AIR PRESSURE: 700 hPa TO 1060 hPa

POWER REQUIREMENTS

POLYDOROS–M / POLYDOROS A100 GENERATOR (PU1):
480 VOLTS, 3–PHASE, 162 KVA, 100 AMPS, 60 Hz

SYSTEM CONTROL CABINET (SC1):
480 VOLTS, 3–PHASE, 8.5 KVA, 50 AMPS, 60 Hz.

MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT (5 GAUSS)	X–RAY TUBES, B/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES
0.2mT (2 GAUSS)	SIEMENS CT SCANNERS
0.15mT(1.5 GAUSS)	COLOR MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT(0.5 GAUSS)	X–RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS

MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY

STORAGE

TEMPERATURE RANGE: –4° F TO 140° F
RELATIVE HUMIDITY: 10% TO 95% NON CONDENSING
AIR PRESSURE: 500 hPa TO 1060 hPa

PACKAGING & TRANSPORT PATH

LARGEST CRATE WITH PACKING: 103.6"W x 46.5"D x 81.5"H, 2,590 LBS.

LARGEST SINGLE PART WITH TRANSPORT CARRIAGE (MIN. DOOR OPENING)
101.6"L x 40"W x 77.2"H, 2,006 LBS.

MIN. CORRIDOR WIDTH: 82.7"

SYSTEM POWER SUPPLY REQUIREMENTS

WIRING SYSTEM:	480Y/277V, 3 PHASE, 5–WIRE, 60 HZ.
MINIMUM POWER SUPPLY:	225 KVA DISTRIBUTION XFMR, LESS THAN OR EQUAL TO 3% IMPEDANCE
X–RAY GENERATOR MOMENTARY RATING: (RADIOGRAPHIC EXPOSURE)	162 KVA
X–RAY GENERATOR LONG–TIME RATING: (FLUOROSCOPY)	8 KVA
LINE IMPEDANCE	≤ 120 (mΩ)
MINIMUM CIRCUIT BREAKER SIZE: (BASED ON N.E.C. 517–73)	100 AMPS
POWER QUALITY PARAMETERS	
MAXIMUM LINE VOLTAGE VARIATION	±10% OF SYSTEM VOLTAGE
PHASE IMBALANCE:	2%
FREQUENCY VARIATION:	± 1 HZ
SYSTEM GROUNDING IMPEDANCE:	0.25 OHMS MAX.

POWER SUPPLY NOTES:

1. INCOMING POWER SUPPLIES FOR SIEMENS EQUIPMENT SHOULD BE DEDICATED (BACK TO SOURCE), ISOLATED AND INSULATED FROM ANY OTHER EQUIPMENT SUCH AS ELEVATORS, GENERATORS, HVAC SYSTEMS, ETC.
2. SIEMENS HEALTHCARE REQUIRES THAT THE INCOMING POWER MEETS THE POWER QUALITY REQUIREMENTS.

REMOTE SYSTEM DIAGNOSTICS

SIEMENS REMOTE SERVICES (SRS) REQUIRES A CONNECTION BETWEEN THE SRS REMOTE SERVER AND SIEMENS SYSTEMS VIA REMOTE LOCAL AREA NETWORK ACCESS, TO ENSURE THE UPTIME OF YOUR SYSTEM.

THIS SERVICE REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:
1. (PREFERRED) VPN – WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE.
2. (OPTIONAL) *SRS ROUTER* – CONNECTED TO ANALOG PHONE LINE VIA *ANALOG MODEM*, ETHERNET CONNECTION TO CUSTOMER'S LAN, AND A POWER OUTLET. NOTE: = *SUPPLIED BY SIEMENS*

FOR MORE INFORMATION

FOR MORE DETAILED PLANNING REQUIREMENTS FOR THIS SYSTEM, SEE THE TYPICAL FINAL DRAWING SET NUMBER: TYPICAL # 08000

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ARTIS Q/Q.ZEN/ZEE CEILING
SPECIFICATIONS

ENVIRONMENTAL CONDITIONS		
EXAMINATION AND CONTROL ROOM	TEMPERATURE RANGE:	59°F–86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR
	RELATIVE HUMIDITY:	20% – 75% NON–CONDENSING
AXIS IMAGE SYSTEM	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. TEMP. GRADIENT: AIR FLOW VOLUME: MAX. NOISE GENERATION:	50°F–95°F (RECOMMENDED TEMPERATURE 70°F) 20%–75% NON CONDENSING 18° F/HR 371 CFM 53 dB(A)
POLYDOROS A100 GENERATOR	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. TEMP. GRADIENT: AIR FLOW VOLUME: MAX. NOISE GENERATION:	50°F–95°F (RECOMMENDED TEMPERATURE 70°F) 20%–75% NON CONDENSING 9° F/HR 94 CFM 55 dB(A)
SYSTEM CONTROL CABINET	TEMPERATURE RANGE: RELATIVE HUMIDITY: MAX. TEMP. GRADIENT: AIR FLOW VOLUME: MAX. NOISE GENERATION:	50°F–95°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH IMAGE INTENSIFIER 59°F–86°F (RECOMMENDED TEMPERATURE 70°F) FOR SYSTEM WITH FLAT PANEL DETECTOR 20% – 75% NON–CONDENSING 9° F/HR 294 CFM 48 dB(A)
KLUVER/LYTRON COOLING UNIT	TEMPERATURE RANGE: RELATIVE HUMIDITY: AIR FLOW VOLUME: MAX. NOISE GENERATION:	41°F–86°F (RECOMMENDED TEMPERATURE 70°F) FROST FREE 647 CFM 55 dB(A) AT 50 HZ, 59 dB(A) AT 60 HZ
STAND WITH FLAT PANEL DETECTOR	MAXIMUM TEMPERATURE GRADIENT: ATMOSPHERIC PRESSURE: SHOCKS: VIBRATIONS:	9° F/HR 700hPa – 1040hPa MAXIMUM 10G/16MS MAXIMUM 0.1 G/10–200HZ

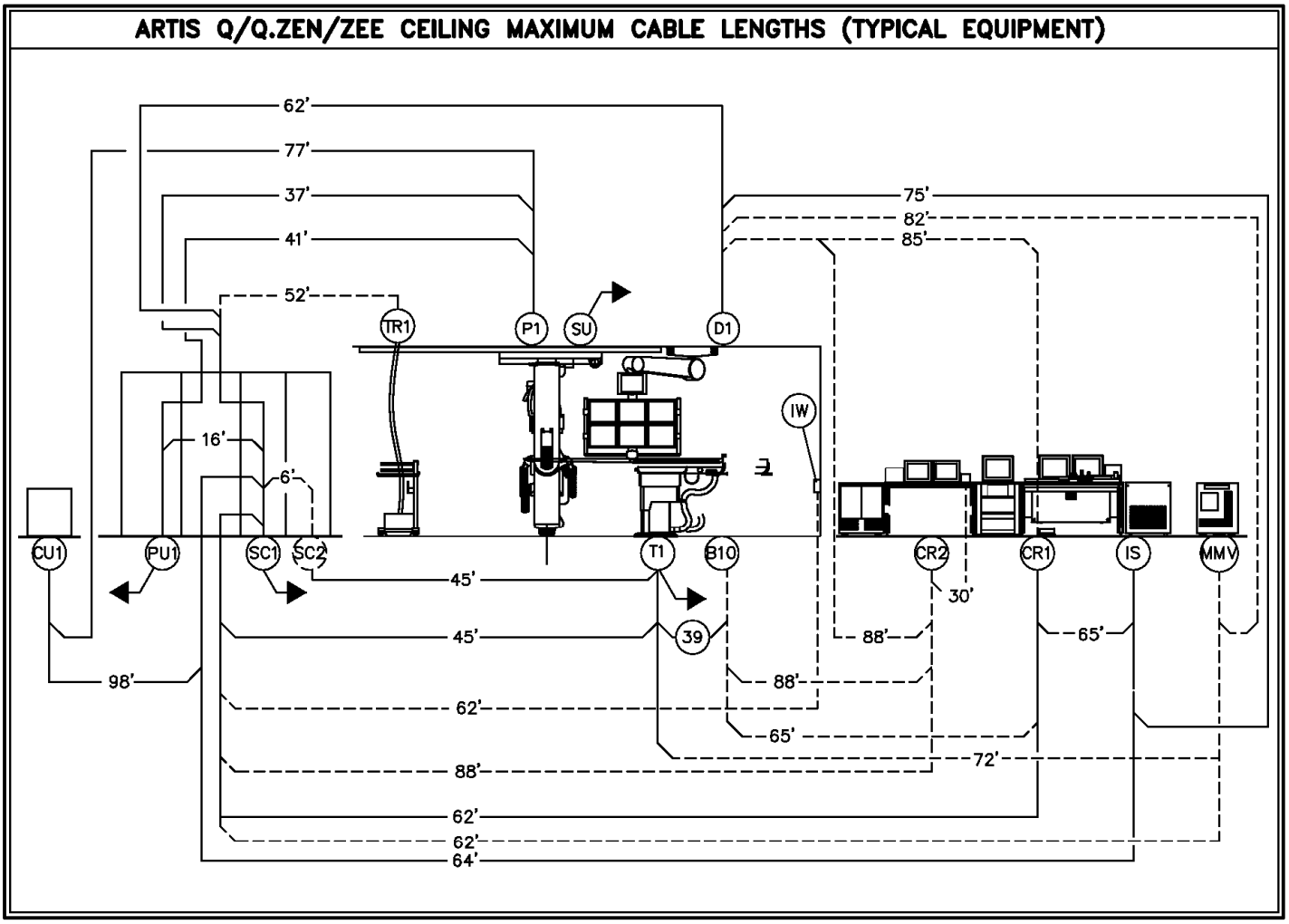
CEILING HEIGHT REQUIREMENT

8 FT. – 11 IN.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
ARTIS Q / Q.ZEN CEILING	AXAQ–060.891.01.01.02	04.13
EXTENDED DCS	AXA4–700.891.04.04.02	09.11
DCS LARGE DISPLAY	AXA4–700.891.03.04.02	09.11

ARTIS Q/Q.ZEN/ZEE CEILING
SPECIFICATIONS



ACIST Medical Systems, Inc.
7905 Fuller Road
Eden Prairie, MN 55344

ACIST Representative:

TOM MORRIS (816) 719-9317
tom.morris@acistmedical.com

QUOTE

Quote ID: 51288
Date: 9/1/2023
Quote Expiration Date: 10/27/2023
GPO: HPG

Contact: Jill Steiger, jill.steiger@mercy.net

Prepared For:
MERCY HOSPITAL JEFFERSON
1400 HWY 61 S
CRYSTAL CITY, MO 63019

Ship To: C0000037413
MERCY HOSPITAL JEFFERSON
1400 HWY 61 S
FESTUS, MO 63028

Injectors

SKU	Item Name / Description	List Price	Qty	Unit Price	Extended Total
019398	CVI STANDARD 7 YR WARRANTY W/P	$239,000.00	2	$133,299.00	$266,598.00
				Injectors Sub-Total	**$266,598.00**

Shipping

Item Name / Description	Qty	Unit Price	Extended Total
CVi Shipping/ Freight Costs	2	$750.00	$1,500.00

Prices are subject to freight and handling charges and to all taxes, excises, or other charges levied by any government (national, state, or local) upon the sale consumption, or use of the products listed herein.

Special Instructions:
Multi-unit discounted pricing is good until 10/27/2023.

Please submit your purchase order and signed quote to:

Capital Equipment purchases:
Fax: (612) 656-2318
Email: sales.orders@acistmedical.com

Consumable purchases:
Fax: (866) 272-1619
Email: bracco.otc@diag.bracco.com

PHILIPS

PHILIPS IGT-D CAPITAL EQUIPMENT QUOTE

This Capital Equipment Quote (the "Quote") is made between Philips Image Guided Therapy Corporation Spectranetics LLC., ("Philips") and Mercy Health ("Customer"), each individually a "Party" or collectively the "Parties" to this Quote, in Connection with the Pricing Agreement executed between the Parties dated _____ (the "Pricing Agreement"). This Capital Equipment Quote shall be for the benefit of Mercy Health Jefferson ("Facility"). This Quote is referenced in connection with and shall be subject to the Terms and Conditions of the Pricing Agreement between Mercy Health Purchasing Agreement No. HPG-7415 (Intralumen Diagnostics), and HPG-36599 Laser Atherectomy executed by and between Philips Image Guided Therapy Corporation, Spectranetics LLC., and HealthTrust Purchasing Group, L.P. ("HealthTrust" or "HPG") dated May 1, 2022 (the "Purchasing Agreement"). In the event of a conflict between the terms of this Quote and the Purchasing Agreement, the terms of the terms of the Purchasing Agreement shall prevail.

Philips agrees to provide the Equipment to Customer for use in its health care facility(ies) as specified in this Quote, which includes the following and are inclusive of any sub-exhibits:

1. Equipment "Additional Terms and Conditions"
2. Equipment purchase price, attached as Exhibit A.
3. Customer facility(ies) listed on Exhibit B
4. Equipment Specifications attached as Exhibit C.

Equipment: Equipment as referenced in this Quote and the corresponding Exhibits, shall refer to Philips commercially available Laser System or Intravascular Imaging System.

Disposable Products: Customer shall purchase Disposable Products in conjunction with the Capital Equipment identified in this Quote.

Acceptance: This Quote will remain valid for thirty (30) days from October 9, 2023.

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Additional Terms and Conditions
Intravascular Imaging System

1. Price/Taxes. The purchase price stated in the quotation does not include applicable sales, excise, use, or other taxes in effect or later levied. Customer shall provide Philips with an appropriate exemption certificate reasonably in advance of the date the Equipment is available for delivery, otherwise, Philips shall invoice Customer for those taxes, and Customer shall pay those taxes in accordance with the terms of the invoice.

2. Shipping. Standard Freight for Intravascular Imaging System shipping shall be FOB Origin prepaid and invoiced. Title to purchased Equipment shall pass to Customer at the time of delivery to Customer. Customer must issue a purchase order for the purchase of the Equipment prior to shipment of the Equipment. Customer will pay each invoice in U.S. dollars in full within thirty (30) days of its receipt of invoice.

3. Limited Warranty. Philips warrants that the System(s) will meet the Specifications and the provisions of the Operator's Manual supplied by Philips (the "Operator's Manual") commencing on the date on which the System(s) is/are installed, for one (1) year (the "Warranty Period"). This Limited Warranty is subject to the following conditions: (i) the System(s) must be correctly installed; (ii) the System(s) must be operated and stored in accordance with the Specifications and the Operator's Manual; and (iii) the System(s) must be operated by trained personnel according to approved clinical guidelines. Philips' sole obligation under this Limited Warranty shall be to provide parts and labor required to cause the System(s) to operate in accordance with the specifications during the Warranty Period. Philips, in its sole discretion, reserves the right to use new or like new parts in servicing or repair of the System(s).

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Exhibit A
Equipment Pricing

Philips Laser System Nexcimer

Qty.	Item #	Product	Price
1	LAS-100	**Mercy Health Laser System Nexcimer**	$195,500
		The Philips Laser System Nexcimer has a broad range of clinical applications, including peripheral atherectomy, coronary atherectomy and lead extraction, allowing the physician to treat a variety of disease states. Using low temperature pulsed bursts of 308 nm UV light, physicians can modify a wide range of lesion morphologies safely and effectively. Ready to lase in less than 30 seconds start-up time, guided workflow touch screen, 360 degree maneuverability simplify set up.	
1		**Operator's manual, power cord, keys (2), footswitch, cover, reference catheter, danger signs (2), safety glasses (10)**	Included
1		**One (1) Year Warranty**	Included
		Total Amount Due Equipment:	$195,500

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Exhibit B
Customer Facility(ies)

Delivery Location(s): Equipment shall be delivered to the following location(s):

ADDRESS		FOR PHILIPS USE ONLY	
1400 Highway 61 Crystal City, MO 63019		Philips MP1:	94497104
		IGTD #:	IGT-NUMO-1047

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Exhibit C
Equipment Specifications
Philips Laser System Nexcimer

The system is a pulsed excimer laser with the following nominal specifications:

Active medium XeCl
Wavelength 308 nm
Catheter output fluence* 30 - 80 mJ/mm2 Repetition rate range* 25 - 80 Hz
Pulse width 125-200 ns, FWHM**
Weight 480 lbs. / 217 kg
Length 52 in / 132 cm
Height 42 in / 107 cm – unit 7-9 in / 18-23 cm - control panel
Width 19 in / 48 cm
Power requirements 100 – 240 V ~ - single phase 50/60 Hz 16 Amp
IPX rating Footswitch: IPX8

* Dependent on fiber-optic catheter in use; see the Instructions for use documentation supplied with each fiber-optic catheter for specific information.
** FWHM: Full width half max

The System should be operated and stored within the following Environmental Conditions
Operating temperature: 12 °C to 30 °C (54 °F to 86 °F)
Storage temperature: 0 °C to 50 °C (32 °F to 122 °F)
Operating humidity: 20 to 80% relative humidity, non-condensing
Storage humidity: 5 to 60% relative humidity, non-condensing

Avoid exposing the System to temperatures and humidity levels beyond the specified ranges. If the system is exposed to conditions outside of the listed ranges, a service visit may be required prior to returning the system to use.

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Zero-Gravity
Quotation

BIOTRONIK, Inc.,
6024 Jean Road
Lake Oswego, OR 97035
Corporate Phone: 800-547-0394
Local Rep Details Edward Burns, Sr. Area Sales Manager, Zero-Gravity, , edward.burns@biotronik.com

Date	3/29/2023
Quote Number	00003735
Expiration Date	6/29/2023
Payment Terms	NET 30
Shipment Lead Time	7-10 Business Days

Presented to:

Jill Steiger
MERCY HOSPITAL JEFFERSON
1400 US Highway 61
Festus, Missouri 63028-4100
United States

Model #	Product	Quantity	List Price	Sales Price	Total Price
403803	ZeroGravity ZGM-6.5H Floor Unit	1.00	USD 87,000.00	USD 87,000.00	USD 87,000.00
433658	ZeroGravity Engineering Onsite	1.00	USD 3,900.00	USD 3,900.00	USD 3,900.00
376435	Freight	1.00	USD 2,340.00	USD 2,340.00	USD 2,340.00

Totals

Total Price	USD 93,240.00

Quote is only valid as an attachment to the Zero Gravity Order Form and Terms and Conditions. Quote Number referenced in the main Agreement will be binding to the Terms set forth.
If applicable, 1 Box includes 20 sterile drapes.
BIOTRONIK, Inc. is an authorized U.S. Distributor of Zero-GravityTM. Zero-Gravity is manufactured by TIDI Products, Inc.
BIOTRONIK Zero-Gravity contracts are independent of any other BIOTRONIK contract.
******Upon delivery of a Zero Gravity floor system, customer is responsible for the breakdown, removal and disposal of shipping crate and related materials. If additional assistance for the disposal is needed from BIOTRONIK, please contact your BIOTRONIK Area Sales Manager and a quote will be provided for those additional services.******

Zero Gravity Standard Terms and Conditions

1. Terms of Sale. These Terms and Conditions ("Terms") are an integral part of the Zero-Gravity Quotation provided to Buyer by BIOTRONIK and shall govern the sale to Buyer of Zero Gravity products ("Products"). Issuance of a Purchase Order with reference to the Zero-Gravity Quotation number or authorized signature on Quotation shall be considered acceptance of these Terms. Amendments to these terms must be mutually agreed to in writing by both parties.

2. Taxes. Any federal, state or local sales, use, excise or other transaction tax imposed on BIOTRONIK by virtue of these Terms or any such taxes imposed on Buyer shall be the sole responsibility of and borne by Buyer whether by direct payment or by reimbursement.

3. Storage. Upon issuance of Purchase Order, Buyer will provide BIOTRONIK with expected dates for delivery and installation services. If Buyer cancels or postpones dates for delivery and/or installation services with less than thirty (30) days' advanced written notice to BIOTRONIK, BIOTRONIK will ship Products to a storage facility and Buyer will remit a monthly invoiced Storage Fee payment of $400.00 to BIOTRONIK for each month Product is stored (minimum of one (1) month) until Product is shipped to Buyer.

4. Non-cancellation. Buyer agrees this Equipment purchase is non-cancelable and non-refundable. Buyer agrees to pay all reasonable costs of collection and attorneys' fees incurred by BIOTRONIK in the collection of any amounts past due from Buyer.

5. Limitation of Liability.
a. BIOTRONIK's aggregate liability to Buyer for all claims of any kind, whether based on contract, warranty, tort (including negligence), strict liability or otherwise, for all losses or damages arising out of services provided under these Terms, its performance or breach (including warranty), shall not exceed the amount paid to BIOTRONIK for the Products.
b. IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT, WARRANTY, INDEMNITY, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE SHALL BIOTRONIK BE LIABLE TO BUYER OR ANY THIRD PERSON FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES (INCLUDING LOST PROFITS) ARISING DIRECTLY OR INDIRECTLY OUT OF THE PRODUCTS OR SERVICES PROVIDED UNDER THESE TERMS.
c. BUYER SHALL NOT HOLD BIOTRONIK LIABLE FOR ANY DEFECTS IN PRODUCTS DISTRIBUTED HEREUNDER UNLESS SUCH

DEFECT RESULTS FROM THE NEGLIGENT OR WILLFUL MISCONDUCT OF BIOTRONIK IN HANDLING SUCH PRODUCTS. BUYER AGREES TO LOOK SOLELY TO THE MANUFACTURER OF PRODUCTS FOR ANY CLAIM ARISING DUE TO LOSS, INJURY, DAMAGE OR DEATH RELATED TO THE USE OR SALE OF PRODUCTS.

6. Indemnification.
a. BIOTRONIK agrees to indemnify, defend and hold harmless Buyer, its directors, trustees, officers, employees and agents (individually and collectively, the "Indemnitees") against any claims, actions, suits or judgments, (hereinafter "Claims") as finally determined by a court of law, which may result from: (1) personal injury, property damage or death to any third party, made or instituted against Indemnitees to the extent said Claims are caused by the malfunction or defect of the Product; or (2) infringement by the Product of any intellectual property rights. Buyer agrees to reasonably cooperate with and authorize BIOTRONIK to carry out the sole investigation, management, and defense of any such Claim. BIOTRONIK's obligations set forth in this paragraph are conditioned upon Buyer providing prompt notice of a Claim and shall not apply to the extent such Claim is attributable to: (a) the acts or omissions of the Indemnitees or any person other than an employee, agent or representative of BIOTRONIK; (b) inappropriate use or application of the Product by the Indemnitees or any person other than an employee, agent, or representative of BIOTRONIK; or (c) the use of any Products not purchased from BIOTRONIK or Products that have been modified or altered without the written approval of BIOTRONIK.

7. Warranties and Representations.
a. Each party represents to the other that it is free to enter into these Terms and that entering into and performing these Terms is not in violation of any other agreement.
b. NOTWITHSTANDING ANY PROVISION HEREIN TO THE CONTRARY, BUYER ACKNOWLEDGES THAT BIOTRONIK IS NOT THE MANUFACTURER OF THE PRODUCTS AND MAKES NO WARRANTIES EXPRESS OR IMPLIED WITH RESPECT TO ANY PRODUCTS PROVIDED HEREUNDER. BUYER SHALL LOOK SOLELY TO MANUFACTURER OF THE PRODUCTS FOR ANY WARRANTY THEREON. BIOTRONIK DISCLAIMS ANY REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER MATTER.

8. Title: Risk of Loss. Products are shipped FOB Origin however, risk of loss shall remain with BIOTRONIK until delivery of the Products to Buyer.

9. OIG Exclusion. Each party represents and warrants that they are not and at no time have been excluded from participation in any federally funded health care program, including, but not limited to, Medicare and Medicaid. Each party shall notify the other party promptly after it becomes aware of its suspension or exclusion from participation in any state or federally funded healthcare program. If either party is so excluded, these Terms shall terminate automatically effective the date of commencement of such exclusion.

10. Independent Contractors. The parties acknowledge that Contractor is an independent contractor and not a partner, employee, or agent of Buyer. Neither party shall have the authority to enter into any agreements or to incur any obligation on the part of the other, except as provided herein.

11. Construction. These Terms have been negotiated at arm's length and have been entered into for the sole benefit of the parties to these Terms. The parties agree that no benefit accruing to either party to these Terms shall be conditioned upon, or granted, in consideration of the referral of any patient or business to either party. These Terms shall inure to the benefit and shall be binding on the parties thereto, and their respective successors and assigns. The subject headings of the sections of these Terms are included for purposes of convenience only and shall not affect the construction or interpretation of any of its provisions.

12. Governing Law. These Terms, and the interpretation and enforcement hereof, will be governed in all respects by the substantive laws of the State of Oregon. If for any reason any controversy, claim, or dispute arising out of or relating to these Terms or the breach of any of its terms is to be resolved in a court of law, the parties irrevocably submit to the exclusive jurisdiction of any state or federal court sitting in the State of Oregon, waive any objection to jurisdiction and venue in those courts, and waive any claim that forum is an inconvenient forum.

13. Waiver/Severability. No waiver of any violation or nonperformance of these Terms in one instance shall be deemed to be a waiver of any violation or nonperformance in any other instance. All waivers must be in writing. In the event any portion of these Terms are declared void by a court or arbitrator, such portion shall be severed from these Terms, and the remaining provisions shall remain in effect, unless the effect of such severance would be to alter substantially these Terms or the obligations of the parties, in which case these Terms may be immediately terminated.

14. Force Majeure**.** BIOTRONIK will not be liable for any failure to perform its obligations to Buyer due to unforeseen circumstances or causes beyond BIOTRONIK's reasonable control, including, but not limited to, acts of God, natural disaster including a global pandemic, war, terrorism, riot, embargoes, acts of civil or military authorities, delay in delivery by BIOTRONIK's vendors, fire, flood, accident, strikes or inability to secure transportation, facilities, fuel, energy, labor or materials. In the event of a force majeure delay, BIOTRONIK's time for delivery or other performance will be extended for a period of time equal to the duration of the delay caused thereby.