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P.O.# 598-B80021

Line #	Description	Qty
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1	ProxiDiagnost High Perf	1
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ProxiDiagnost N90 is a nearby controlled (conventional) R/F system for routine radiographic and fluoroscopic examinations like barium and iodine studies. All system controls are at tableside, so in every phase of the examination the patient can get full attention. Due of its small footprint, great accessibility to the tabletop and a slim but robust design, examinations can be performed to all patient types, from newborns to bariatrics. The spring balanced servo assisted Eleva detector pad allows easily controlled movements. Thanks to its state-of-the-art wide size dynamic flat detector and advanced image processing, the system is able to acquire high frame rate fluoroscopy at high resolution and provide advanced dose management.

Main benefits at a glance

- Extremely robust table with small footprint, featuring under-table tube, to exam broad patient types, with high patient load capacity of 300 kg (660 lbs.)
- High flexibility through tiltable table from 90° to -85° (standard: 90° to -20°)
- Very slim Eleva detector pad over-table housing for easy and comfortable access to the patient during procedures
- Easy and safe patient access to the table, thanks to the possibility to park the over-table detector housing behind the table, completely freeing access to the tabletop
- Ergonomic grip on detector housing for easy positioning and with all main functions at hand
- Servo assisted longitudinal and vertical movement of the over-table detector housing, for exact, fast and effort-free positioning of the X-ray beam in all tilt positions
- Spring balanced and servo assisted compression movements for effortless GI work
- Comfortable work height for the operator
- X-ray shielding for under-table tube operation, for optimal protection of the operator during routine operation
- Covered table mechanics for protection of patient and user as well as an easy system cleaning
- Anti-collision protection for safe movement of the table during tilting and to prevent damage to movable items in the room (like stools, trolleys etc.)
- Compression stop that can be set in various positions for patient safety e.g. myelograms
- Ample detector area for full diagnostic information even with large patients
- Dose reduction thanks to high detector quantum efficiency
- No grid manipulation necessary thanks to the automatic grid insertion/parking mechanism
- Optimized exposure settings through automatic adjustment according to patient thickness (IQX)
- Superb image quality thanks to state-of-the-art detector technology and exclusive dynamic UNIQUE image processing
- Decrease in the number of repeat exposures due to the reduction of overexposed and underexposed images
- Total radiation dose monitoring by an integrated area dose calculator
- Customizable Eleva user interface with two high quality monitors
- State-of-the-art IT security and patient privacy architecture

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- Professional serviceability and remote service capabilities

The wide size 43 cm x 43 cm (17 inch x 17 inch) integrated digital flat detector covers all relevant anatomy and offers full diagnostic information. Its Cesium Iodide (CsI) technology provides excellent quantum efficiency (DQE) and helps to reduce the required patient dose. Its ability to acquire both high frame-rate fluoroscopy sequences and high-resolution radiography images provides high flexibility in any circumstances.

An integrated seven-field automatic exposure control chamber ensures optimum image quality at the lowest possible dose even for difficult projections, as well as the automatic adjustment of exposure kV and time parameters to be optimized to patient thickness (IQX).

The Eleva concept increases productivity by adapting the system to the way you work. The system is customizable and performs to the user specification from pre-exam to archive, to support varying workflow patterns (from high throughput exams to time consuming procedures) which increases overall efficiency. It features customizable presets like SpectraBeam RF filter selection, bi-directional RIS coupling automatically activating the appropriate Eleva presets to increase exam efficiency even more.

Exclusive Eleva user interface concepts

- At the table in examination room
 - Eleva detector pad (over-table detector housing)
 - Table side operation panel
 - Eleva footswitch, for exposure and fluoroscopy control
- In the control room
 - Eleva workspace and handswitch

The ergonomic Eleva detector pad allows to operate the system at table side (nearby operation), perform all standard table movements, select main fluoroscopy, detector field size and imaging functions, control collimator, etc. Everything can be selected without leaving the patient.

Eleva detector pad at a glance

- EasyGrip
 - Ergonomic handle for one-hand operation, fitted for left and right handed people
 - All system controls available for full attention to the patient
 - Integrated dynamic fluorograb button, within reach for instantaneous grabbing of fluoroscopic images and complete runs
 - Table movement controls (tilting, lateral & longitudinal tabletop moves)
 - Collimator control
 - EasySelect
 - Display and control for Eleva settings
 - Eleva programming parameters
 - Dose levels and pulse rates selected via 10 soft keys for easy adjustment of examination parameters partly even under fluoroscopy
 - SmartWindow
 - Display with information on the system status
 - Guidance for all operational functions of the system
 - Clear, situation dependent, online information for error free handling
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- Single/serial exposure technique selection
- Choice of 4 detector field size
- Frame speed selection
- More operational functions needed for examinations

The table side operation panel is located close to the foot end of the table. It provides the user a convenient way to move the tabletop with the patient in the right position for e.g. phlebography studies. Longitudinal, lateral and tilting movements can be controlled.

The innovative Eleva workspot of ProxiDiagnost N90 lets you experience simplicity like never before. Designed with input from customers, it provides two high quality monitors with a clear and intuitive user interface. The main monitor being touchscreen, it is easy to learn and use and is highly configurable to adapt to particular needs and specific workflows, resulting in high room efficiency.

The high workflow automation possible through the Advanced Eleva concept allows concentrating on patients instead of on the system. The touchscreen user interface, the integrated generator controls, and the automatic setting of exposure parameters based on patient and examination information coming from the RIS, provide quick and easy access to all functions a busy technologist needs to achieve an efficient workflow.

Thanks to Philips outstanding Dynamic UNIQUE (UNified Image QUality Enhancement) advanced multi-resolution image processing, all radiography images and fluoroscopy sequences are always displayed fully processed in real-time. During fluoroscopy runs, Dynamic UNIQUE performs instant de-noising from the first frame onwards, avoiding the need to wait some frames before getting a stable and acceptable de-noising, resulting in time saving. Dynamic UNIQUE provides an optimal contrast harmonization with enhanced details, while the overall impression remains natural, and a comparable image impression between RF and DR images.

Specifications

Table

- Tilttable from 90° to -20° (optional: 90°/-30°, 90°/-45°, 90°/-85°)
- Tilting speed: variable from 1°/s to 6°/s
- Tabletop height: 83.3 cm (32.8 inch)
- Tabletop size 200 cm x 80 cm (78.7 inch x 31.5 inch)
- Tabletop attenuation: 0.7 mm Al typical (at 100 kV, 2.7 mm Al HVL)
- Maximum load 300 kg (660 lbs.) in horizontal position
- Maximum load 250 kg (550 lbs.) in tilting position without any longitudinal or lateral movement of the table plate
- Maximum load 180 kg (397 lbs.) in all positions and with all movements
- Maximum tabletop to detector clearance: 60 cm (23.6 inch)
- Longitudinal movement +/- 83 cm (32.7 inch), constant speed of 6 cm/s (2.4 inch/s)
- Lateral movement -10 cm / +9 cm, (-3.9 inch / +3.5 inch), constant speed of 4.2 cm/s (1.7 inch/s)
- Tube focus to tabletop distance adjustment: 51 cm to 65 cm (20 inch to 25.6 inch)
- Source Image Distance (SID) adjustment: 77 cm to 133 cm (30.3 inch to 52.4 inch)

Eleva detector pad

Line #	Description	Qty
	<ul style="list-style-type: none"> • Over-table housing with integrated large 43 cm x 43 cm (17 inch x 17 inch) Cesium Iodide (CsI) technology dynamic flat detector • Motorized oscillating and moveable carbon fiber covered grid • 7 fields AMPLIMAT measuring chamber with automatic selection of measuring fields • Compression cone with motorized movement from and into parking position • Automatic collimation in X- and Y-direction, secondary shutters close to detector entrance • Removable lead rubber radiation protection 	

Eleva workspot

- Computer
 - Based on 3.9 GHz, Intel Core I7 processor
 - 16 GB RAM memory
 - 1 TB Solid State Disk (SSD)
- Monitors
 - Two high quality color LCD monitors, one with touchscreen
 - Size: 21.3 inch
 - Matrix: 1600 x 1200 pixels (2 Megapixel)
 - Pixel pitch: 0.270 mm
 - Calibrated luminance: >700 cd/m²
 - Luminance ratio: >800:1
 - Dimensions: 492 mm x 394 mm (19.4 inch x 15.5 inch)
 - DICOM calibrated for room environmental illuminance from 0 to 1000 LUX
 - DICOM illuminance compensation automatically adjusted for room illuminance

Comprising

- Fluoroscopy table
- Pair of adjustable handgrips
- Adjustable, removable footrest
- Double footswitch for fluoroscopy and exposure
- Eleva workspot computer, keyboard and mouse, cables
- Two high quality monitors
- Eleva application and examination database software and licenses
- Eleva dynamic images review software and licenses
- Windows 7 system software and licenses
- Dynamic UNIQUE advanced multi-resolution image processing
- Shutter and Image Verification tool
- Solid Core malware protection software and license
- Instruction for use
- Quick reference guide
- User documentation

High Performance Room

This DRF high performance room set-up contains full clinical coverage for all classic fluoroscopy applications as well as extended digital radiography productivity with a fixed digital detector in

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either the vertical stand or the table and a wireless portable detector. The focus of this room could even shift towards digital radiography. For example, it could be used as a back-up chest room.

High performance room benefits:

- Excellent room utilization with direct digital radiography and high patient turnover
- More application flexibility with one fixed detector with extensive coverage
- One wireless portable detector for general radiography and free exposures

Ceiling Suspended Radiography Tube

Philips CSM ceiling suspended radiography tube provides great flexibility in the examination room for radiographic exposures.

Main benefits at a glance

- High flexibility due to the ability to place the tube almost anywhere in the room
- Very convenient for working with a vertical stand (option), or for free exposures like in a stretcher or a wheelchair
- Ergonomic handle, control buttons and release brake, as well as convenient color-coding of movements
- Wide 16.5 cm (6.5 inch) LCD display on tube head for clear information and statuses
- Integrated centering laser in the tube head for easy positioning

The CSM ceiling suspension carrying the X-ray tube gives freedom for a wide range of longitudinal and transverse movements in the room, allowing performing vertical stand examinations, as well as lateral projections and free exposures using the SkyPlate detector (option) or PCR cassettes. Thanks to a four-part telescopic column and an award-winning control handle, the system can be operated with only one hand and easily positioned close to the patient.

The clear and wide LCD information display and controls on the tube head, combined with the Eleva alternative workflow concept and automatic tube tracking, provide high projection flexibility plus quick and easy handling. A convenient room height adjustment at installation allows the system to fit almost any room height, to achieve the necessary source-image distance, and to go down to the floor for lower extremity work.

Specifications:

- Ceiling Suspension CSM
 - Four-part aluminum telescopic column with spring counter balanced holder for X-ray tube assembly, adaptable to individual room heights
 - Ceiling height at source-image distance 110 cm (44 inch): 2.65 m to 3.20 m (8 foot 8.3 inch to 10 foot 5.9 inch)
 - Minimum ceiling source distance: 87.1 cm (34.3 inch)
 - Possible room height adjustment: 37.5 cm (14.8 inch)
 - Lowest tube position: 30 cm (11.8 inch) measured from center of beam to the floor
 - Length of rails: base rails 4.3 m (14 foot 1.3 inch), optional rails extension 2.7 m (8 foot 10.3 inch)
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Line #	Description	Qty
	<ul style="list-style-type: none"> • Longitudinal travel with Comfort Track and Comfort Move: 3.44 m (11 foot 3.4 inch), 6.14 m (20 foot 1.7 inch) with rails extension option • Transverse travel: 1.50 m (4 foot 11 inch) with short transverse rails, 3.22 m (10 foot 6.7 inch) with long transverse rails • Vertical travel: 1.65 m (5 foot 5.2 inch) • Rotation of focal spot around vertical axis of column: 360° (±180°), with rotation stop +180°/-165° and lock position every 45° • Angulations of focal spot around horizontal axis: ±125°, lock positions 0° and ±90° • Control handle <ul style="list-style-type: none"> • Centering device in longitudinal and transversal directions • Brake/locking controls and central three-axis brake-release at lowest position of handle • Wide 16.5cm (6.5 inch) LCD information display and control buttons • Collimator <ul style="list-style-type: none"> • Motorized automatic collimation, manual overrule possible, with light field indicator • Angle of aperture and rotation: 2 x 15°, ±45°, depending on the collimator (see type number plate) • Timer switch: up to 30 s • Inherent filter value: <0.3 mm at 100 kV, depending on the collimator • Added filters: 2 mm Al or 1 mm Al + 0.1 mm Cu or 1 mm Al + 0.2 mm Cu • Source-image distance measurement tape • X-ray Tube <ul style="list-style-type: none"> • Philips Super Rotalix high power X-ray tube SRO 33100, with dual-focus, rotating anode and ROT 380 assembly • Two focal spots 0.6 and 1.2 • Maximum power • With focal spot 0.6: 33 kW • With focal spot 1.2: 100 kW • Anode angle 13° • Maximum tube voltage 150 kV • Anode heat storage capacity 220 kJ (300 kHU) • Assembly heat capacity 1.260 kJ (1.700 kHU) • Continuous anode input power 190 W • Minimum anode speed 8,000 to 10,000 revolutions/minute • Build in filter 2 mm Al (5/64") • Total filtration minimum 2.5 mm Al (105/1024") • Double tube overload protection • Total weight approx. 26 kg 	

Comprising:

- Four-part telescopic column
- X-ray tube assembly with collimator
- Control handle with buttons and LCD screen
- Rail system
- Installation cables and high voltage cables
- Set of markers for preferred source-image distance
- Philips Comfort Track system motorization

Line #	Description	Qty
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UPS

The UPS is included in case of a power breakdown for ProxiDiagnost Eleva core components (System Controller, Remote Input/Output, Automatic Image Processing, ViewForum, Ethernet Switch, and Firewall). It ensures that the completion of the last task and storage of images can be performed.

- Bridging time: 60 minutes
- Maximum charging time: 6 hours

CS Base Rails

Set of rails for BuckyDiagnost Ceiling Suspension

Fixed at the ceiling for:

- Longitudinal carriages of BuckyDiagnost CS
- Monitor ceiling suspension
- Auxiliary ceiling suspension; length: 4,3 m (14 feet)

Comprising:

- 2 rails
- Adjustable end / stops
- Spacer strips
- Fixing parts
- Brake rails

Clinical Education

Clinical Education Specialists will provide twenty-eight (28) hours of RF ProxiDiagnost N90 Onsite Education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 28 hours. CEU credits may be available if the participant meets the guidelines provided by Philips. Please read guidelines for more information. Depending on your system configuration, the first four (4) hours onsite may be spent configuring new equipment for specific clinical needs, as well as reviewing important safety features and quality procedures. Please read guidelines for more information. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Clinical Education Specialist will provide sixteen (16) hours of RF ProxiDiagnost Follow Up Onsite Education for up to four (4) students, selected by customer, including technologist from

Line #	Description	Qty
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night/weekend shifts if necessary. CEU credits may be available if the participant meets the guidelines provided by Philips. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation.

Education expires one (1) year from equipment installation date (or purchase date if sold separately). Ref#6379-20180111

System Parts

- 989001003371 FLOOR PLATE EASY D.
- 989001003392 INSULATION KIT ED
- 989801220367 CABINET BOX (Quantity of 2)
- 980306690109 CABLES F/ EASY DIAG-SCP INSTALL
- NRFA791 UPS

2	45 DEGREES TRENDELEBURG	1
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45 Degree Trendelenburg

90/45 tilting of the entire tabletop of the EasyDiagnost Eleva. This setting enables the user to move the patient from an upright position to a 45°head-down position (Trendelenburg) for various applications such as stomach colon or myelography etc.

A variable speed allows a smooth and careful start; acceleration to 6°moves the table quickly in the required position. Standardly the system slows down and stops at 0°for the user's convenience. A "no-stop" button next to the tilting handle avoids a stop in 0°position if an uninterrupted movement is required.

Specifications:

- Positive tilting angle: 90°
- Negative tilting angle: 45°(Trendelenburg position)
- Tilting speed: variable from 0-6°
- Tilting movement controls at Spot film device as well as on the tableside operation console (TSO) in case the over-table tube (option) is available.

3	Fixed detector for table	1
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Premium, wide size, fixed detector for the table, to perform radiographic procedures using the ceiling suspension.

Main benefits at a glance

- Wide size 43 x 43 cm (17 x 17 inch) integrated digital flat detector
- Five-field automatic exposure control chamber for optimal image quality and dose
- Automatic collimation for X-ray beam limitation to digital flat detector, according to pre-programmed examination parameters

Line #	Description	Qty
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- Removable oscillating grid for optimal image quality and dose

The wide size 43 x 43 cm (17 x 17 inch) integrated detector covers all relevant anatomy and offers full diagnostic information. Its Cesium Iodide (CsI) technology provides excellent quantum efficiency (DQE) and helps to reduce the required patient dose.

An integrated five-field automatic exposure control chamber ensures optimum image quality at the lowest possible dose even for difficult projections.

Specifications

- Digital Bucky unit for fixed flat detector
 - Automatic exposure control (AEC): 5 AEC measuring fields
 - Removable oscillating grid, focus 110 cm (43 inch)
- Detector
 - Wide size 43 x 43 cm (17 x 17 inch) integrated digital flat detector with Cesium Iodide (CsI) technology
 - Active detector area 42.0 x 42.5 cm (16.5 x 16.7 inch)
 - Resolution 8.2 megapixel (2840 x 2874 pixels)
 - Pixel pitch 0.148 mm
 - Pixel depth 16 bits
 - Image resolution: up to 3.4 line pairs per mm

Comprising

- Digital Bucky unit for fixed flat detector
- Digital flat detector 43 x 43 cm (17 x 17 inch)
- Default oscillating grid, focus 110 cm (43 inch)

4	Comfort Move	1
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With Philips Comfort Move, relevant parts of the system geometry are motorized to support a fast, smooth and automated workflow within the daily routine in the X-ray room. Built-in safety measures include collision detection, force limitation, break management and dead-man control to position components safely with the patient in the room. Collimation and collimation light are set automatically to further release the user from making manual adjustments for radiographic routine procedure steps with the ceiling suspension.

Main benefits at a glance

- Automatic tube height adjustment in vertical direction (tube tracking)
- Automatic tube positioning for upper, centered or lower detector alignment at vertical stand (option)
- Auto-collimation of the tube, depending on the selected examination
- Automatic tube alpha rotation around the horizontal axis by +/- 125 °

For systems with VS vertical stand (option):

The motorization of the vertical stand makes it easy to set the appropriate detector height according to patient size. The motorized tilting (option) for the VS vertical extends the possible application range to extremities, skeletal examinations, and even under table examinations using a trolley. This capability offers additional workflow enhancements on the system by enabling the upright Bucky unit to be automatically placed in different pre-defined positions as well as individual positions from -20° to +90°. With a single click, tube and detector can be linked to keep the tube centered to the detector while simultaneously setting the correct height of the detector (tube

Line #	Description	Qty
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tracking). For specific examinations, the tube can automatically be positioned off-center to align the X-ray beam with the upper or lower border of the detector.

Automatic Image Stitching exams (option) with the large SkyPlate wireless portable detector in VS vertical stand can be performed fully automatically, including precise tube rotation and linear detector movements.

Main benefits at a glance

- Automatic tube and detector alignment/centering
- Automatic move-to-position of detector tray into pre-defined positions
- Manual and motorized height adjustment of detector tray, from 30 to 180 cm (11.8 inch to 5 foot 11 inch)
- Convenient user interfaces located on both left and right sides of the detector tray, for quick and easy adjustment of movements
- Two different speeds, plus manual operation for precise positioning
- Motorized detector tray tilting (option)

Comprising:

- Motorization of the ceiling suspension column
- Motorization of the tube alpha rotation
- Motorization of vertical stand VS (if present)
- Software license and documentation

5	SkyPlate Large (35 x 43 cm, 14 x 17 inch)	1
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Philips SkyPlate is the next generation of wireless portable detectors. It is an integrated part of the Eleva platform and defines a new dimension of flexibility and freedom within the radiography room.

Main benefits at a glance

- DR speed and excellent image quality with the positioning flexibility of CR
- ISO compliant cassette size format (35 x 43 cm, 14 x 17 inch) to fit into standard operating room tables
- Reduced patient infection risk and easy handling thanks to the detector's cable-free design
- Easy handling for free exposures
- Flexible positioning for lateral or oblique projections
- Instant image display
- State-of-the-art CsI detector technology and UNIQUE image processing for optimal image quality at the lowest dose
- Robust shell of the detector to protect it from water drops and dust
- Easy, precise and safe positioning around the patient, even for difficult projections, provided by a rich set of dedicated accessories
- SkyPlate sharing license, to use the wireless detector on another compatible Philips X-ray system

The SkyPlate large covers all relevant anatomy with its large detector area of 35 x 43 cm (14 x 17 inch). Depending on anatomy, it can be positioned in different orientations and offers full

Line #	Description	Qty
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diagnostic information even with large patients. Combined with Philips advanced UNIQUE image processing, grid-line removal algorithm and state-of-the-art Cesium Iodide (CsI) technology, it has an excellent detective quantum efficiency (DQE) and helps to reduce the required patient dose. It provides instant image display with superb image quality on the Eleva workspot for increased diagnostic confidence.

Thanks to its cable-free design, the SkyPlate allows quick and efficient procedures with high hygienic standards. Its robust design and a rich set of optional dedicated accessories (mobile holder, bed holder, attachable grids and hygienic bags) offer easy, safe and quick positioning throughout the hospital. Special projections like laterals can easily be performed without moving the patient. Its slim design is optimized for critical environments and minimizes the risk of interfering with life supporting equipment, cables, tubes and catheters.

The detector features advanced low-power WiFi connection technology and is designed according to IEC 60601-1-2. It is compliant with life supporting devices designed according to IEC 60601-1-2 and with pacemakers designed according to IEC (EN) 45502-2-1 when keeping indicated distances. The SkyPlate battery can be removed and recharged in the battery charging station. Once a battery is empty, a new one can be inserted to immediately continue working with the SkyPlate.

SkyPlate sharing allows taking the SkyPlate from the system and using it with other compatible Philips MobileDiagnost wDR, DigitalDiagnost or ProGrade systems. Thereby, SkyPlates can be used efficiently wherever needed and help driving down investment costs. Compatible systems need to carry the SkyPlate Sharing license to participate in SkyPlate sharing.

Specifications

- Size: 35 x 43 cm (14 x 17 inch) SkyPlate large wireless digital flat detector with Cesium Iodide (CsI) technology, active detector area 34.48 x 42.12 cm (13.6 x 16.6 inch) (2330 x 2846 pixels), pixel pitch 0.148 mm
- Image resolution: up to 3.38 line pairs per mm
- Maximum patient weight: 100 kg (220 lbs) for weight-bearing examinations
- WLAN network standard: IEEE802.11 a, b, g or n (configurable)
- Encryption: default WPA2
- Optional attachable grids
 - Portrait orientation: 44/8/130: 44 lines/cm (112 lines/inch), ratio 8, focus 130 cm (51 inch)
 - Landscape orientation: 40/8/130: 40 lines/cm (100 lines/inch), ratio 8, focus 130 cm (51 inch)

Comprising

- SkyPlate large 35 x 43 cm (14 x 17 inch)
- Two exchangeable batteries
- Set of 100 hygienic bags
- Software licenses
- SkyPlate sharing license
- Documentation

Compatible with

Line #	Description	Qty
	<ul style="list-style-type: none"> DigitalDiagnost Release 4.x MobileDiagnost wDR Release 2.x ProGrade 1.x CombiDiagnost R90 ProxiDiagnost N90 Attachable grids for SkyPlate 35 x 43 cm (14 x 17 inch) in portrait and landscape orientation 	

6 SkyPlate Infrastructure Kit 1

The SkyPlate Infrastructure Kit is comprised of a wireless access point, a battery charger and a back-up cable.

Main benefits

- All-in-one kit to set the customer up with the necessary parts for working with the Skyplate
- State-of-the art components

The access point enables the wireless transmission of clinical images from the SkyPlate to the access point. The access point is hard wired to the radiography system and images are sent from there to the Eleva work station for review, editing and further distribution. The battery charger is designed to charge up to three batteries simultaneously. The back- up cable enables the transmission of clinical images in the case that there is no wireless transmission between the SkyPlate and the wireless access point possible.

Specifications

- Wi-Fi access point
 - according to regional requirements for Wi-Fi transmissions
- SkyPlate battery charger
 - It offers a 4 bar charge status color indication per battery: 0-25%, 25-50%, 50-75%, 75-100%.
 - IP41 compliant (IEC60529).
 - Dimensions 172 x 322 x 48 mm
 - SkyPlate back- up cable

Compatible with

- SkyPlate large 35 x 43 cm (14 x 17")
- SkyPlate small 24 x 30cm (10 x 12")

7 VS vertical stand with fixed detector 1

Philips height-adjustable VS vertical stand has a proven and smart design that makes no compromise on robustness, quality and work efficiency, even with challenging patients and difficult examination conditions. It is optimal for X-ray departments specializing in thorax examinations. The motorized tilting option extends the possible application range to extremities, skeletal examinations, and under-table examinations using a trolley.

This vertical stand features a premium, wide size, fixed detector.

Main benefits at a glance

- Vertical stand mounted on the floor, optimal for chest X-ray and all wall Bucky applications
- Wide size 43 x 43 cm (17 x 17 inch) integrated digital flat detector

Line #	Description	Qty
	<ul style="list-style-type: none"> • Motorized height adjustment from 30 to 180 cm (11.8 inch to 5 foot 11 inch) with two different speeds plus manual operation for precise positioning • Customizable pre-defined positions (move-to-position) and numerous other well-planned features significantly reduce the physical demands placed on the technologist • Easy patient positioning with counterbalanced large vertical movement range • Large and ergonomic patient grips on both left and right sides of the detector for safe and comfortable patient positioning • Optional rotatable patient stretch grip on top left or right side of the detector • Convenient user interfaces on both left and right sides of the detector, for quick and easy adjustment of movements, collimation, field alignment and orientation, selection of automatic exposure control chambers, and tracking mode • Five-field automatic exposure control chamber for optimal image quality and dose, as well as positioning flexibility • Automatic tube height adjustment to detector height (tracking) • Automatic collimation for X-ray beam limitation to digital flat detector, according to pre-programmed examination parameters • Optional motorized detector tilting (-20° to +90°) to support examination of patients on a stretcher, plus straightforward exams of extremities for seated or standing patients • Removable oscillating grid for optimal image quality and dose • Convenient storage for two grids within the detector unit for immediate and safe storage <p>The motorized height adjustment from 30 to 180 cm (11.8 inch to 5 foot 11 inch) measured at center of detector above the floor, gives a total lift of 150 cm (4 foot 11.1 inch) to adjust to a comfortable and safe working height with a choice of two different speeds.</p>	

The wide size 43 x 43 cm (17 x 17 inch) integrated detector covers all relevant anatomy and offers full diagnostic information. Its Cesium Iodide (CsI) technology provides excellent quantum efficiency (DQE) and helps to reduce the required patient dose.

An integrated five-field automatic exposure control chamber ensures optimum image quality at the lowest possible dose even for difficult projections, and provides positioning flexibility for various examinations without moving the patient. The removable oscillating grid can be stored conveniently and safely directly in the detector unit.

Specifications

- VS vertical stand
 - Counterbalanced rugged column for motorized and manual vertical movement of the detector
 - Vertical movement range: 30 to 180 cm (11.8 inch to 5 foot 11 inch), measured at center of detector
 - Installation: floor and wall attachment, or floor only (optional)
 - Detector unit: 59.6 x 57.5 cm (23.5 x 22.6 inch)
 - Optional tilting: -20° to +90° motorized
 - Automatic exposure control (AEC): 5 AEC measuring fields
 - Operating: two user interfaces (left and right)
 - Removable oscillating grid 40/8/140: 40 lines/cm (100 lines/inch), ratio 8, focus 140 cm (56 inch) for use with source-image distance from 110 to 180 cm (44 inch to 71 inch)
 - Grid storage: for up to two grids within the detector unit
- Detector
 - Wide size 43 x 43 cm (17 x 17 inch) integrated digital flat detector with Cesium Iodide (CsI) technology
 - Active detector area 42.0 x 42.5 cm (16.5 x 16.7 inch)
 - Resolution 8.2 megapixel (2840 x 2874 pixels)
 - Pixel pitch 0.148 mm

Line #	Description	Qty
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- Pixel depth 16 bits
- Image resolution: up to 3.4 line pairs per mm

Comprising

- Digital BuckyDiagnost VS vertical stand
- Digital flat detector 43 x 43 cm (17 x 17 inch)
- Default oscillating grid 40/8/140. A different grid can be chosen in order questionnaire. Additional grids are available in accessories
- Software licenses
- Documentation

8	Motorized tilting of the VS vertical stand	1
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The motorized tilting option for VS vertical stand brings workflow enhancements on the system by enabling the upright Bucky unit to be automatically placed in different positions.

Main benefits at a glance

- Extends the possible application range to extremities, skeletal examinations, and even under-table examinations using a trolley
- Reduces technologist physical involvement by providing motorized tilting movements
- Tilting by just pressing a move-to-position button or by pressing and holding a dedicated movement button (e.g. vertical movement of the Bucky unit)
- Motorized height adjustment from 30 to 180 cm (11.8 inch to 5 foot 11 inch) with two different speeds, plus manual operation for precise positioning
- Convenient user interfaces on both left and right sides of the Bucky unit, for quick and easy adjustment of movements, including motorized tilting

Specifications

- Tilt from -20° to +90° horizontal position, via 0° vertical position
- Vertical movement range: 30 to 180 cm (11.8 inch to 5 foot 11 inch), measured at center of Bucky unit

Comprising

- Tilting mechanism between vertical stand column and Bucky unit
- Electronic controlled motor drive
- Set of cables
- Software license

Compatible with

- BuckyDiagnost VS vertical stand

9	80 kW generator with IQX	1
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Line #**Description****Qty**

The 80 kW generator with IQX is a microprocessor-controlled X-ray generator with sophisticated high-frequency inverter technology. The generator is designed for a wide range of fluoroscopy and radiography applications. For pulsed fluoroscopy, the unique dose management supports standard Pulse-Controlled Fluoroscopy (PCF) and the advanced option Philips Grid-Controlled Fluoroscopy (GCF) (except for China). Moreover, the generator supports Philips Intelligent Exposure (IQX).

Main benefits at a glance

- Designed for radiography and fluoroscopy work
- Wide range of applications possible
- Manual and automatic modes
- Intelligent Exposure IQX for optimized exposure image quality and dose, independent from body thickness
- Optional Grid Controlled Fluoroscopy (GCF) (except for China) for superb fluoroscopy image quality at minimum dose with every single pulse
- Small footprint

The generator offers automatic and manual exposure techniques and automatic kV reduction. It includes the IQX feature, which regulates exposure settings during the exposure (in-pulse controlled).

IQX provides excellent, reliable and consistent image quality for digital exposures, both in static and dynamic fluoroscopy studies. IQX controls and adapts the exposure parameters within the X-ray pulse. The automatic and fast regulation of kV during each exposure leads to crisp image quality for all types of studies, for all patients.

IQX highlights

- Short exposure times eliminates motion blur
- Exposure times are kept within an application-dependent customizable time range. This ensures that every single image is correctly exposed and free from motion blur, even with rapidly changing density
- Automatic kV-optimization
- Automatically adjusts the settings, relative to the standard kV-value. Thus the settings are optimized for the actual object density and the needs of the examination.
- Fast, in-pulse adaptation to (changes in) density, kV-adjustment takes place within the first millisecond of the exposure, enabling adaptation to sudden changes in object density (e.g. during dynamic studies)
- Controlling range: customizable from -15 kV relative to a defined start value up to 125 kV

Specifications**Exposure output power**

- 40 - 125 kV (main beam) for Rad and dynamic exposures on the table
 - 40 - 150 kV (second beam with wall Bucky and free exposures)
 - 1 - 1100 mA
 - 1 ms - 4 s with AEC (Automatic Exposure Control)
 - 1 ms - 4 s without AEC
-

Line #	Description	Qty
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Manual mode

- Two-factor technique (kV - mAs)
- Three-factor technique (kV - mA - s)

Automatic mode

- One factor falling load (kV)
- Two factor constant load (kV/mA)
- Automatic kV reduction
- Support of IQX Intelligent exposure

Fluoroscopy techniques

For enhanced image quality and dose management, the generator supports continuous fluoroscopy and the two pulsed fluoroscopy techniques with in-pulse control PCF and Philips GCF (option, except for China).

Fluoroscopy output with PCF

- 40 - 125 kV
- 0.2 - 30 mA with continuous fluoroscopy
- 1.5 - 60 mA with pulsed fluoroscopy

Fluoroscopy output with GCF

- 40 - 110 kV
- 0.2 - 30 mA with continuous fluoroscopy
- 1.5 - 200 mA with pulsed fluoroscopy

Area Dose Calculation and display and fluoroscopy entrance dose rate limitation.

Automatic mains adaptation.

Comprising

- X-ray generator

10

Pulsed fluoroscopy

1

Pulsed Fluoroscopy is defined as a full automatic technique with in-pulse regulation. It stands for reduced dose with no compromise on image quality. This is achieved by a unique integrated control system which handles the dose parameters kV, mA and time within each single pulse (in-pulse control).

Main benefits at a glance

- Outstanding fluoroscopy image quality due to in-pulse control
- Low frequencies for dose reduction
- Lock-in mode to maintain image quality during abrupt variations in absorption e.g. bringing lead gloves in the beam to position a patient

Line #	Description	Qty
	<ul style="list-style-type: none"> Adaptive measuring fields maintain a constantly high image quality even when the field of interest is limited by shutters moving in <p>Specifications</p> <p>Pulsed fluoroscopy</p> <ul style="list-style-type: none"> Pulse time: 10 to 20 ms Pulse frequency: 0.5 to 6 frame per second <p>X-ray Tube</p> <ul style="list-style-type: none"> Philips Super Rotalix high power X-ray tube SRO 2550, with dual-focus, rotating anode and ROT 380 assembly Two focal spots 0.6 and 1.0 Nominal anode input power 20W equivalent <ul style="list-style-type: none"> with focal spot 0.6: 30 kW with focal spot 1.0: 60 kW Nominal radiographic anode input power <ul style="list-style-type: none"> with focal spot 0.6: 25 kW with focal spot 1.0: 50 kW Anode angle 15° Maximum tube voltage 150 kV Anode heat storage capacity 220 kJ (300 kHU) Continuous anode input power 160 W Minimum anode speed 8,000 to 10,000 revolutions/minute Total filtration minimum 2.5 mm Al (IEC 60522, 75 kV) Double tube overload protection Total weight approx. 27 kg <p>Comprising</p> <ul style="list-style-type: none"> Pulsed Fluoroscopy generator module and license Philips tube SRO 2550 ROT 380 	

11	<p align="center">One in-room Monitor</p>	1
	<p>Monitor to be placed in examination room.</p> <p>Main benefits at a glance</p> <ul style="list-style-type: none"> Live image feedback for nearby procedures or for the staff in the room Wide size, high brightness LCD technology for crystal clear and flicker-free images Flat design for low footprint in the examination room Lightweight for easy maneuverability <p>Specifications</p> <ul style="list-style-type: none"> Type: LCD color monitor IPS Size: 21.3 inch Matrix: 1600 x 1200 pixels (2 Megapixel) Pixel pitch: 0.270 mm Calibrated luminance: >700 cd/m² Luminance ratio: >800:1 Dimensions: Approx. 495 x 425 mm (19.5 x 16.7 inch) 	

Line #	Description	Qty
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- Weight: Approx. 7.1 kg (15.6 lbs)
- DICOM calibrated for room environmental illuminance from 0 to 1000 LUX
- DICOM illuminance compensation automatically adjusted for room illuminance

Comprising

- Monitor
- Cable set (in case a local monitor support is used)

12	Ceiling suspension for one in-room monitor	1
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The ceiling suspension for monitor is a robust, articulated, ceiling mounted support to hold one flat panel monitor and use in the examination room.

Main benefits at a glance

- Floor space saving thanks to the ceiling suspended concept
- Can be moved all around in the examination room depending on needs
- Mounting on ceiling rails plus two articulated arms for maximum positioning freedom
- Five high quality joints for effortless and precise positioning
- Large handle below and on both monitor sides for intuitive movements

Specifications (including monitor)

- Weight: approx. 84 kg (184.8 lbs)

Comprising

- Ceiling carrier rails, articulated arms, supports and joints, mounting parts
- Monitor cable set

13	DICOM Package	1
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This package provides the following DICOM communication features

- DICOM Worklist Management
- DICOM Modality Performed Procedure Step
- DICOM Image Export
- DICOM Storage Commitment
- DICOM Print for radiography images

For further details, please refer to the product DICOM Conformance Statement.

DICOM Worklist Management (WLM)

Interface to Radiology Information System (RIS). Worklist handling via a DICOM Basic Worklist Management (BWLM). The DICOM connection allows the Eleva workspot to automatically load the acquisition modality's worklist from a RIS server. The worklist query can be performed broad (generic) or specific (patient oriented) and both interactively (on operator request) and automatically (in the background).

Line #	Description	Qty
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DICOM Modality Performed Procedure Step (MPPS)

DICOM service for notifying the RIS server about start and end of performed procedure steps. The messages contain references to the originating worklist items (patient and procedure data), a list of exported DICOM images and post exposure data. MPPS requires that the DICOM Worklist Management feature is enabled.

DICOM Image Export and Storage Commitment

The DICOM Image Export feature provides the DICOM Storage service to send images to PACS, archive or any other DICOM destination in DICOM format. The Eleva workspot supports DICOM Greyscale Display Standard. Calibration of Eleva workspot and the receiving DICOM node will result in consistently same high image quality. DICOM Image Export also includes the DICOM Storage Commitment service, allowing the Eleva workspot to be notified by storage destination if images have been securely stored. This trigger is used by the Eleva workspot to allow related images to be deleted locally.

DICOM Print

DICOM Print interface for manual and automatic printing of radiography images. DICOM Print allows for manual and automatic printing of radiography images directly from the Eleva workspot. It enables the user to transfer radiography images to a networked DICOM imager with the choice of different printing modes:

- Autoprint: automatic printing of images on predefined film layouts according to the examination
- Manual print: Manual image placement on predefined film layouts or image placement on free layout composing

Please note that only printing via DICOM protocol is possible, and only for images acquired with the table detector set in radiography mode, or with SkyPlate detector (option).

Comprising

- DICOM Worklist Management software license
- DICOM MPPS software license
- DICOM Image Export and Storage Commitment software license
- DICOM Print for radiography images software license

14	Dose calculation	1
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Integrated area dose calculator for total radiation dose monitoring based on the examination generator and collimator settings.

Comprising

- Software license

Line #	Description	Qty
15	<p data-bbox="432 241 762 304">Dose Reporting in DICOM Structured Report format</p> <p data-bbox="215 304 1300 367">This DICOM service allows exporting patient radiation dose details in the Structured Report DICOM standard format.</p> <p data-bbox="215 409 518 451">Main benefits at a glance</p> <ul data-bbox="247 483 1332 651" style="list-style-type: none"> • Standard, modern and comprehensive format for exporting patient radiation exposure information • Exports dose information on study (accumulated) and exposure levels • Allows detailed exposure dose monitoring on the PACS or dedicated dose management system <p data-bbox="215 682 1380 787">Typically, one dose report is created at the end of each procedure step performed on the system. This dose report collects together all the irradiation events from the procedure step and cumulates all dose values for the procedure step as a whole.</p> <p data-bbox="215 819 1380 955">By exporting patient radiation dose in a comprehensive, very detailed and standard format, DICOM Structured Report allows to perform precise dose monitoring and analysis on the PACS or with a dedicated dose- management system. This assists institutions to ensure their policies, procedures and protocols are adequate and being followed appropriately in the department.</p> <p data-bbox="215 987 1380 1060">Moreover, it can help determining how changes in techniques and protocols impact radiation dose as well as image quality, to maintain patient doses As Low As Reasonably Achievable (ALARA).</p> <p data-bbox="215 1092 359 1134">Comprising</p> <ul data-bbox="247 1165 494 1207" style="list-style-type: none"> • Software license 	1
16	<p data-bbox="432 1249 730 1291">Clinical Quality Control</p> <p data-bbox="215 1291 1380 1386">This powerful image statistic tool provides the advanced user with functionality to analyze rejected images regarding operators and rejection reasons. It serves as well for monitoring and analyzing general parameters.</p> <p data-bbox="215 1407 1380 1501">Clinical Quality Control data files can be locally or remotely downloaded from the Eleva workspot in standard format, for further usage or archiving on a desktop PC. It perfectly supports the quality standards of the department and teaching situations.</p> <p data-bbox="215 1543 359 1585">Comprising</p> <ul data-bbox="247 1617 494 1659" style="list-style-type: none"> • Software license 	1
17	<p data-bbox="432 1701 805 1764">Stretch grip for the VS or VM vertical stand</p>	1

Line #	Description	Qty
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The stretch grip for vertical stand improves examination conditions and patient comfort.

Main benefits at a glance

- Allow the patient to comfortably keep his arms overhead or beside the Bucky unit by holding the grip
- Ergonomic U-shape providing different grip heights to adapt to patient size
- Can be inserted at the top left or right side of the Bucky unit, depending on the situation
- Convenient wall mounted holder for immediate and safe storage

Specifications

- Metallic U-shape grip
- Rotatable from -90° to +90° around the vertical axis

Comprising

- Stretch grip
- Storage holder to be wall mounted

Compatible with

- VS and VM vertical stands
- This option is only selectable for BuckyDiagnost when the VS Advanced package is taken

18	Grid Portrait SkyPlate Large	1
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Attachable, fixed grid in portrait orientation for SkyPlate large 35 x 43 cm (14 x 17").

Main benefits at a glance

- Easy to attach/detach to/from the SkyPlate, thanks to its click-on mechanism
- Convenient handle for safe and easy handling
- For examinations where the detector is used in portrait orientation
- Can be used with source-image distance from 96 to 203 cm (38 to 80 inch)
- Fiber interspaces and carbon fiber cover plates ensure higher contrast and lower required dose than conventional aluminium interspaces grids
- Combined with Philips advanced UNIQUE image processing and grid-line correction algorithm, it provides optimal image quality for increased diagnostic confidence

Specifications

- Fixed grid 44/8/130: 44 lines/cm (112 lines/inch), ratio 8, focus 130 cm (51 inch), for source-image distance from 96 to 203 cm (38 to 80 inch)
 - Fiber interspaces and carbon fiber cover plates
 - Interspaces in portrait orientation
 - Dimensions: 46.8 x 47.6 x 2.5 cm (18.4 x 18.8 x 1 inch), including handle
 - Weight: 1.9 kg (4.2 lbs)
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Line #	Description	Qty
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Comprising

- Attachable, fixed grid

Compatible with

- SkyPlate large 35 x 43 cm (14 x 17")

19	Wireless Detect. Mobile Holder	1
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The wireless detector mobile holder is designed to take full advantage of the wireless portable detector to perform free exposures in optimal conditions.

Main benefits at a glance

- Mounted on wheels for easy moving and positioning in the room
- Holds the wireless portable detector in a safe and precise position
- Very easy to put the detector in and to take it out
- High detector positioning flexibility
- Can hold the wireless portable detector with or without a grid on it
- Brakes on the wheels for fixed and safe positioning
- Also compatible with 35 x 43 cm (14 x 17") CR cassettes

The mobile holder provides outstanding positioning flexibility for the wireless portable detector. Mounted on wheels, it is easily positioned in the room and all around the patient. With or without a grid on it, the wireless portable detector can be held in various positions depending on projection requirements. The positioning is achieved quickly and easily, thanks to very intuitive use and self-locking joints. Featuring a height adjustable arm with swivel, the detector is safely held and can be lifted, tilted, swiveled or rotated to the best convenience.

Specifications

- Dimensions: length 68 cm (26.8"), width 67 cm (26.4"), height 150.7 cm (59.3")
- Vertical movement range of holder arm: 68 to 128 cm (26.8 to 50.4"), center of large portable detector
- Weight: 53.2 kg (117 lbs)

Comprising

- Mobile detector holder

Compatible with

- Wireless portable detector 35 x 43 cm (14 x 17") and CR cassettes 35 x 43 cm (14 x 17")

20	Handle Large Cassette Size Detector	1
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Line #	Description	Qty
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Attachable frame with handle for SkyPlate large 35 x 43 cm (14 x 17").

Main benefits at a glance

- Easy to attach/detach to/from the SkyPlate, thanks to its click-on mechanism
- Convenient handle for safe and easy handling

Specifications

- Dimensions: 46.8 x 47.6 x 2.5 cm (18.4 x 18.8 x 1 inch), including handle
- Weight: 1 kg (2.2 lbs)

Comprising

- Attachable frame with handle

Compatible with

- SkyPlate large 35 x 43 cm (14 x 17")

21	Detector and Grid Storage	1
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The wall mounted holder is designed to either safely park the grids of a portable detector (WPD) or SkyPlates in both sizes (large and small) when not used. SkyPlates can be placed with or without grids or with handle.

With its robust, painted metal design, it is made to be fixed on the wall in the radiography room for convenient, safe and quick grids handling.

Specifications

- Holds 2 wireless portable detector grids or
- Holds 2 SkyPlates (large or small) incl. grids or handle.
- Dimensions (approximately): depth 15 cm (5.9"), width 60 cm (23.6"), height 25 cm (9.8")
Weight (approximately): 4.8 kg (10.3 lbs)

Comprising

- Holder and wall mounting accessories

22	Set of CS Ceiling Rails	1
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For longitudinal carriages of CS monitor ceiling suspension or auxiliary ceiling suspension; length 4.3 M.

Comprising:

- 2 CS rails.
 - Adjustable end/stops.
 - Spacer strips.
 - Fixing parts.
 - Brake rails.
-

Line #	Description	Qty
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Compatible with:

- CS 2 CS 4.
- Monitor ceiling suspension.
- Rail extension 9890 010 01622.
- Rail for cable carrier 9890 010 02422.

23	Contract Labor	1
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Trade in / Removal Cost

REPLACE EE#90566 JLM ROOM 1E204

OPTIONS

Line #	Description	Qty
1	SkyFlow Plus	1

To avoid extensive scatter radiation on images, an anti-scatter grid is sometimes used, typically for anatomies such as chest, abdomen or pelvis. With SkyFlow, Philips presents an innovation and exciting way to enhance image quality for all anatomies where grid was recommended without applying an anti-scatter grid. Such as Abdomen, Chest, Knee, Pelvis, Shoulder.

For customers who are using a grid, SkyFlow Plus can provide an image contrast level close to grid images. This implies that no grid needs to be carried, positioned and aligned. Also, chances for potential re-takes due to grid cut-off or misalignment will be reduced.

Customers who are not using a grid today will see an improved image impression by using the SkyFlow functionality. Even though no grid is applied and dose levels remain unchanged, image quality will improve.

The SkyFlow functionality is especially suitable for bariatric patients. Once the license is installed at the system, it does not need a single technologist interaction and is automatically applied on images.

Comprising

- SkyFlow Plus license
- Documentation

Compatible with

- MobileDiagnost wDR release 2.x
 - CombiDiagnost R90
 - ProxiDiagnost N90
-