

**ΔΕΠΑΝΟΜ Α.Ε.**

**ΔΗΜΟΣΙΑ ΕΠΙΧΕΙΡΗΣΗ ΑΝΕΓΕΡΣΗΣ ΝΟΣΗΛΕΥΤΙΚΩΝ ΜΟΝΑΔΩΝ**

***ΓΕΝΙΚΟ ΝΟΣΟΚΟΜΕΙΟ ΣΥΡΟΥ***

**ΠΡΟΜΗΘΕΙΑ - ΕΓΚΑΤΑΣΤΑΣΗ  
ΙΑΤΡΙΚΟΥ, ΞΕΝΟΔΟΧΕΙΑΚΟΥ ΚΑΙ ΛΟΙΠΟΥ ΕΞΟΠΛΙΣΜΟΥ**

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**ΚΑΤΗΓΟΡΙΑ Β : ΤΗΛΕΦΩΝΙΚΟ ΚΕΝΤΡΟ**

**ΚΑΤΗΓΟΡΙΑ Γ : ΠΡΟΚΑΤΑΣΚΕΥΑΣΜΕΝΟΣ ΥΠΟΣΤΑΘΜΟΣ**

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ΚΩΔΙΚΟΣ	ΕΙΔΟΣ	ITEM	ΠΟΣ.	ΤΙΜΗ ΜΟΝΑΔΑΣ (ΕΥΡΩ)	ΣΥΝΟΛΙΚΟ ΤΙΜΗΜΑ (ΕΥΡΩ)
C0B03	ΚΛΙΝΗ ΝΟΣΗΛΕΙΑΣ, ΗΛΕΚΤΡΟΚΙΝΗΤΗ	BED, HOSPITAL, ELECTRIC	25	1.400,00	35.000,00
C0K00	ΧΕΙΡΟΛΑΒΗ ΕΛΞΗΣ ΚΛΙΝΗΣ	LIFTING POLE, BED, HOSPITAL	6	25,00	150,00
C0K01	ΚΑΓΚΕΛΑ ΚΛΙΝΩΝ ΑΣΘΕΝΩΝ	SAFETY SIDE RAILS, BED, HOSPITAL	6	100,00	600,00
C0Q01	ΚΟΜΟΔΙΝΟ	LOCKER, BEDSIDE/OVERBED TABLE COMBINATION	25	350,00	8.750,00
C0Q05	ΤΡΑΠΕΖΙΔΙΟ ΚΛΙΝΩΝ	OVERBED TABLE, RENAL DIALYSIS	5	300,00	1.500,00
C0Z00	ΣΤΡΩΜΑ ΝΟΣΟΚΟΜΕΙΑΚΗΣ ΚΛΙΝΗΣ	MATTRESS, BED, HOSPITAL	50	200,00	10.000,00
C1L01	ΠΟΛΥΘΡΟΝΑ ΑΙΜΟΚΑΘΑΡΣΗΣ	CHAIR, CLINICAL, HAEMODIALYSIS	5	4.000,00	20.000,00
C1M05	ΠΟΛΥΘΡΟΝΑ ΓΥΝΑΙΚΟΛΟΓΙΚΗ (ΜΠΟΥΜ) ΗΛΕΚΤΡΙΚΗ	COUCH EXAMINATION, UROLOGY/GYNAECOLOGY,ELECTRIC	1	3.000,00	3.000,00
C2B08	ΑΠΙΝΙΔΩΤΗΣ, ΔΙΦΑΣΙΚΟΣ, ΜΕ ΔΥΝΑΤΟΤΗΤΑ ΒΗΜΑΤΟΔΟΤΗΣΗΣ	DEFIBRILLATOR, PACEMAKER CAPABILITY, BIPHASIC	4	6.500,00	26.000,00
C3I04	ΤΡΟΧΗΛΑΤΟ ΕΠΕΙΓΟΝΤΩΝ / ΑΝΑΖΩΓΟΝΝΗΣΗΣ	TROLLEY, EMERGENCY RESUSCITATION	4	1.700,00	6.800,00
C3L01	ΑΝΑΡΡΟΦΗΣΗ, ΗΛΕΚΤΡΙΚΗ, ΦΟΡΗΤΗ, ΥΨΗΛΟΥ ΚΕΝΟΥ, ΜΟΝΗΣ ΦΙΑΛΗΣ	SUCTION APPAR., ELECT., PORTABLE, H.V., S.J.	2	850,00	1.700,00
C4G00	ΑΝΤΛΙΑ ΕΓΧΥΣΗΣ, ΟΓΚΟΜΕΤΡΙΚΗ	PUMP, INFUSION, VOLUMETRIC	3	1.059,35	3.178,05
C4H00	ΑΝΤΛΙΑ ΕΓΧΥΣΗΣ, ΤΥΠΟΥ ΣΥΡΙΓΓΑΣ	PUMP, INFUSION, SURINGE	6	1.250,00	7.500,00
C4N71	ΠΥΡΓΟΣ ΒΙΝΤΕΟΑΡΘΡΟΣΚΟΠΗΣΗΣ, ΥΨΗΛΗΣ ΕΥΚΡΙΝΕΙΑΣ	TOWER VIDEO ARTHROSCOPY, HIGH DEFINITION	1	52.845,53	52.845,53
E0A00	ΑΝΑΙΣΘΗΣΙΟΛΟΓΙΚΟ ΜΗΧΑΝΗΜΑ, ΤΡΟΧΗΛΑΤΟ, ΠΛΗΡΕΣ	ANAESTHETIC STATION, MOBILE, COMPLETE	1	45.000,00	45.000,00
E2A00	ΧΕΙΡΟΥΡΓΙΚΟ ΤΡΑΠΕΖΙ, ΗΛΕΚΤΡΙΚΟ, ΤΡΟΧΗΛΑΤΟ, ΓΕΝΙΚΗΣ ΧΡΗΣΗΣ	OPERATING TABLE, ELECTRIC, MOBILE, GP	2	25.500,00	51.000,00
E2A06	ΧΕΙΡΟΥΡΓΙΚΟ ΤΡΑΠΕΖΙ, ΗΛΕΚΤΡΙΚΟ, ΟΡΘΟΠΑΙΔΙΚΟ	OPERATING TABLE, ELECTRIC, ORTHOPEDIC	1	40.000,00	40.000,00
E3J01	ΗΛΕΚΤΡΟΧΕΙΡΟΥΡΓΙΚΗ ΔΙΑΘΕΡΜΙΑ ΥΨΗΛΗΣ ΑΠΟΔΟΣΗΣ	ELECTROSURGICAL UNIT, HIGH PERFORMANCE	2	9.000,00	18.000,00
E4H05	ΜΟΝΙΤΟΡ, 4 ΚΑΝΑΛΙΩΝ, ΕΠΙ ΤΡΟΧΗΛΑΤΟΥ	MONITOR, TROLLEY MOUNTED, 4 CHANNELS	2	6.000,00	12.000,00
E4K02	ΜΟΝΙΤΟΡ, ΕΝΔΟΜΗΤΡΙΚΟ, ΚΑΡΔΙΟΤΟΚΟΓΡΑΦΟΣ	MONITOR, INTRAPARTUM, CARDIOTOCOGRAPH	1	8.500,00	8.500,00
E5B00	ΗΚΓ ΠΟΛΥΚΑΝΑΛΟΣ ΤΡΟΧΗΛΑΤΟΣ	ECG RECORDER, MULTI-CHANNEL, MOBILE	10	4.500,00	45.000,00
E6N08	ΕΡΓΑΛΕΙΑ ΕΝΔΟΣΚΟΠΙΚΑ, ΑΡΘΡΟΣΚΟΠΗΣΕΩΝ	INSTRUMENTS, ENDOSCOPY, ARTHROSCOPES	1	24.000,00	24.000,00
F0A01	ΜΗΧΑΝΗΜΑ ΑΙΜΟΚΑΘΑΡΣΗΣ, ΠΛΗΡΕΣ	HAEMODIALYSIS MACHINE, COMPLETE	9	15.040,65	135.365,85
F0A15	ΜΗΧΑΝΗΜΑ ΑΙΜΟΚΑΘΑΡΣΗΣ ΤΥΠΟΥ CV-VH	HAEMODIAL.MACHINE, CV -VH	1	18.000,00	18.000,00
G0A00	ΕΞΕΤΑΣΤΙΚΗ ΜΟΝΑΔΑ ΟΦΘΑΛΜΟΛΟΓΙΚΟΥ	OPHTHALMIC DIAGNOSTIC UNIT	1	5.000,00	5.000,00
G0C00	ΣΚΑΜΠΩ ΕΞΕΤΑΣΤΙΚΟ	STOOL, EXAMINATION	1	150,00	150,00
G0I02	ΠΡΟΒΟΛΕΑΣ ΟΠΤΟΤΥΠΩΝ	CHART PROJECTOR, AUTOMATIC	1	2.000,00	2.000,00

ΣΥΝΟΛΟ (μη συμπεριλαμβανομένου Φ.Π.Α.) = 581.039,43

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# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## **C0B03 BED, HOSPITAL, ELECTRIC**

Electric, four-section bed. Back section adjustment, electric (from the horizontal to 65° at least) with a combination of auto contour and sliding backrest to reduce the risk of tissue damage due to shear and for the patients comfort. Knee break fowler adjustment electric (from the horizontal up to 35° approximately).

Trendelenburg and anti-trendelenburg positioning at least 12° by gas-spring.

Leg section adjustments by means of tooth rack. Easily removable head and foot frames and panels. Mattress platform made of ABS easily detachable for easy cleaning.

Provision to enable positioning of infusion pole at each corner. 4 swivel castors, one of them guiding, 15 cm at least, with central brake system. Approx. mattress platform dimensions 200 cm X 90 cm. Approx. electric height adjustment 45 - 85 cm. Construction: Base, bed frame and mattress platform frame made of steel tube, Zink plated and electrostatically painted with epoxy-polyester powder. Head and foot frames made of steel tube, without sharp edges. Head and foot panels made of laminated plastic. Bed sections articulated joints especially designed for linen protection. The whole construction shall have procedures for easy cleaning and disinfection. Accessories: 4 PVC wall protecting buffer wheels.

Infusion pole with two hooks chrome-plated steel. Chart holder made of stainless steel with spring clip for documents.

Certifications

Certificate that declare the compliance of the offered products with the requirements of Directive 93/42/EEC of 14 June 1993 refer to medical devices.

Certificate EN 60601-2-38 Medical electrical equipment — Part 2-38: Particular requirements for the safety of electrically operated hospital beds.

Complete with flame retardant, multi-sectioned mattress, number of sections compatible with bed sections number. Made of polyurethane foam, density approx 35 kg/m<sup>3</sup>, enclosed in cotton (80% at least) textile, with zip in the middle of small mattress side. Complete with overall mattress cover, washable up to 95°C, antistatic, flame retardant, impervious, antibacterial. Cover to incorporate special mesh to enhance its

## **C0K00 LIFTING POLE, BED, HOSPITAL**

Rigid pole, in chrome plated steel, with hanging plastic handbar, to enable patients to lift or move themselves in bed. To fit onto hospital beds, adult and child. Height adjustable. Complete with guard wheel for wall protection against knocks.

## **C0K01 SAFETY SIDE RAILS, BED, HOSPITAL**

Pair of safety side rails, in chrome plated steel, sliding or swinging down. Length at least equal to 2/3 of mattress platform length. Height approx. 40 cm above mattress surface. To fit onto item Bed, Hospital.

## **C0Q01 LOCKER, BEDSIDE/OVERBED TABLE COMBINATION**

Suitable to be used in both sides of bed. Two way drawer with pull-out container, washable and disinfectable.

Cupboard with one removeable and height adjustable shelf, twin bottle holder, 4 swivel castors, 50 mm approx., with brake system.

Approx. cabinet dimensions 55 X 45 X 80h cm.

Whole cabinet frame of strong polymer construction easy to clean and disinfect.

Complete with separate mobile overbed table with 'U'-shaped tubular steel base, chrome plated. Design should permit the parking of the table top above the bedside cabinet unit.

Durable plastic table with edges, approx. 60x35x2cm

4 wheel castors d50mm two of them with brakes

Smooth and secure height adjustment approx 85 - 110cm by means of a handle

## **C0Q05 OVERBED TABLE, RENAL DIALYSIS**

Height adjustable overbed table suitable to be used in both sides of bed. Easy and smooth up and down table movements even with one hand.

Table surface tiltable for reading position (up to approx. 20°) via integrated handle.

With 4 swivel castors, 50 mm approx.. Bed dimensions 40 X 60 cm approx., height adjustment 85 - 100 cm.

Construction: Frame made of tubular steel epoxy coated. Table made of strong, stain-resistant plastic easily removeable for washing and disinfecting.

To include a plastic storage container.

## **C0Z00 MATTRESS, BED, HOSPITAL**

Flame retardant, multi-sectioned mattress. Number of sections and dimensions compatible with item C0B03 Bed Hospital, Electric. Made of polyurethane foam, density approx 35 kg/m<sup>3</sup>, enclosed in cotton (80% at least) textile, with zip in the middle of small mattress side. Complete with overall mattress cover, washable up to 95°C, antistatic, flame retardant, impervious, antibacterial. Cover to incorporate special mesh to enhance its durability and zip in the middle of small mattress side. Mattress height at least 12 cm.

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## C1L01 CHAIR, CLINICAL, HAEMODIALYSIS

Three sectioned chair, fully electrically operated by either patient or staff with the use of a hand switch control. Height adjustment. Possibility of positioning from upright sitting to a horizontal bed surface, as well as trenbelenburg positioning. Adjustable pillow for neck support. Height adjustable upholstered armrests, capable of being inclined or swiveled out of the way. Electrically adjustable footrest with variable presetting for patients of any height. Detachable upholstery, washable and disinfectable. Built in paper roll holder and halogen lamp. Horizontal length at least 190 cm. Battery back-up operation in the event of power failure. On four swivel castor, with central brake system. Complete with incorporated, electronic weight scale. To include a portable TV/DVD player with a 10" at least TFT screen. Integrated reception antenna. Mains and rechargeable-battery operation. Remote control. Greek subtitles and menu support. Playback of DVD, CD, JPEG, MPEG4, DIVX,WMA etc files. Pair of headphones to be included.

## C1M05 COUCH EXAMINATION, UROLOGY/GYNAECOLOGY,ELECTRIC

3 -section chair for carrying out gynaecological/urological treatments in sitting as well as in lying position. Electrical motors for seat height adjustment (60-100cm), back rest inclination (+70°) and Trendelenburg inclination (+/- 15°) with foot pedal. Construction made out of steel tubes covered with powder coating. The seat, back rest and leg rest sections made from polyurethane foam and covered with seamless upholstery high quality artificial leather, which is easy to clean and disinfect.

Total length with leg plate: approx. 1800 mm  
Seat width: 600 mm

To include:

- pair of Goebel knee crutches, fully adjustable with ball & socket joint, PUR foam padded.
- S/S bowl
- pair of hand rests
- Holder for paper sheet roll

## C2B08 DEFIBRILLATOR, PACEMAKER CAPABILITY, BIPHASIC

G.D.

Portable defibrillator, microprocessor controlled with pacemaking capability included.

Form of shock: biphasic, escalating variable energy.

O.F. / O.C.

- 1.Mains and battery (rechargeable) operated. 50 max-energy shocks or min of 4hours ECG monitoring.
- 2.Manual, cardioversion and ECG synchronized operation modes. Autosequence mode
- 3.Display of ECG and optionally SpO2 through paddles or electrodes .Also display of HR, available energy. Color screen 5,5" size at least
- 4.Charge time in 200J max 5sec
- 5.Energy : 0 - 270 Joules
- 6.Event summary
- 7.Paddles: Standard paddles with manual or auto recording button, for adults and pediatrics. Supplied with long paddle cord.
- 8.Charge/ready indicators.
- 9.External pacemaker with self-adhesive defib/pace electrodes. Pace rate from 30 -180 bpm and 0-140 mA pulsed current.
10. Impedance compensation
- 11.Thermal printer for recording the displayed parameters.
12. Memory for min 40 events archiving with date/time data

## C3I04 TROLLEY, EMERGENCY RESUSCITATION

Overall dimensions approx. 900w x 600d x 950h mm. Complete with lockable drawers.Strong polymer construction. 4 drawers approx. 15cm with internal dividers. Scratch-resistant top surface, moulded with 3-sided raised rim. Rim height approx 1cm. Push handles. Castors 125mm with 2 brakes and bumpers.

To include the following accessories:

- Rotating defibrillator tray
- Oxygen bottle holder
- Support for plastic litter box
- Height adjustable infusion pole
- Cardiac board
- Retractable writing tray
- Refuse collector approx 15 lit with plastic bag

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## **C3L01 SUCTION APPAR.,ELECT.,PORTABLE,H.V.,S.J.**

Totally enclosed oil free vacuum pump. Features to include :

- operating indicator light.
- protection against accidental aspiration of fluids inside the pump
- vacuum range 0-635 mm Hg approx., clear vacuum gauge, sensitive vacuum regulating valve
- suction capacity approx. 35 lt/min
- bacterial filter at the entrance of the apparatus, carrying handle.
- graduated 1lt suction jar with overload cut out, overflow phial with additional overflow protection.
- tubing and probe
- all parts in contact with the secretion autoclavable

## **C4G00 PUMP, INFUSION, VOLUMETRIC**

Microprocessor controlled portable, dual AC/battery operated unit.

Digital display of set values, flow rate and total volume infused. K.V.O function to keep the infusion route open after the completion of scheduled infusion. Memory of data in case of a temporary interruption. Adjustable infusion pressure limits. Programmable for automatic secondary infusion. Free flow protection, activated even with door open.

Built in rechargeable battery, automatically charged during AC operation. The unit must automatically switch to battery operation mode if AC power supply should fail. Complete with mounting device for item I.V. pole.

Operation characteristics (approximately):

Flow rate setting range: 0,1-999,9 ml/hr in 0,1 ml/hr increments.

Accuracy  $\pm$  5% .

Total volume setting range: 0,1 - 9999 ml in 0,1 ml increments.

Adjustable KVO rate

Adjustable Infusion pressure in at least three levels.

Automatic bolus reduction after occlusion release

Audible and visual alarms in the following cases: End of infusion, internal malfunction, flow error, door open, air in line, occlusion, empty container, low battery.

Capable of being connected to a specific stand, capable of holding and supplying electricity to at least six apparatus. Capability of central operation management together with syringe pumps.

## **C4H00 PUMP, INFUSION, SURINGE**

Microprocessor controlled, portable, dual AC/battery operated unit.

Digital display of set values, flow rate, total volume infused, pressure level and battery level.

KVO function, selectable pressure limits. Programmable bolus rate. Automatic bolus reduction after release of an occlusion. Memory of infusion events.

Built in rechargeable battery, automatically charged during AC operation. The unit must automatically switch to battery operation mode if AC power supply should fail. Complete with mounting device for item I.V. pole. To accept syringes from 5-50ml. Fluid resistant construction.

Flow rate adjustable from 0.1 to 1200 ml/hr, in 0,1 ml/hr increments. Accuracy  $\pm$  2%.

Audible and visual alarms in the following cases: Infusion near end, end of infusion, system malfunction, syringe unlocked, occlusion, low battery .

Capable of being connected to a specific stand, capable of holding and supplying electricity to at least six apparatus. Capability of central

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## C4N71 TOWER VIDEO ARTHROSCOPY, HIGH DEFINITION

High Definition Arthroscopic system, consisting of :

1.Light Source Fiber optic, 2.High Definition Video Camera, HD Monitor (x2), 4.Shaver, 5.Suction / Irrigation Pump, 6.Digital Recording System, 7.Trolley video endoscopy.

Items 1.,2. should be of the same manufacturer.

### 1) LIGHT SOURCE FIBER OPTIC

XENON lamp of 300 W.

Automatic adjustment of the illumination in accordance with the output of the camera, as well as capability for manual adjustment.

Color temperature of approx. 6000°K. Temperature should remain constant over the entire control range.

Input and output for the video signal.

Operation of the lamp fat least 300 hours. Electronic operating hours counter.

Easy replacement of the lamp without the use of instruments.

The source should be compatible with endoscopes of various manufactures

Easy clean front control panel to meet all hygienic requirements.

All the active functions should be illuminated

Complete with suitable light cable.

### 2) CAMERA

Full High Definition 3 CCD camera, for high-resolution images.

Automatic white balance adjustment. Automatic shutter control.

Zoom capability

Suitable for HD endoscopes

HD Digital and analog outputs.

Presettings for different operations. On-screen menu.

Integrated lens and programmable remote control buttons for different functions (zoom, white balance e.t.c.)

Camera head gas sterilisable and fully immersible in disinfection solutions.

### 3) HD MONITOR

Full HD format, high resolution, 24" color LCD monitor for medical applications.

Image resolution of at least 1920 x 1080 pixels.

Menu of functions should be appeared on the screen.

The monitor should have input-output for analog and digital signals. Suitable for HD signals.

Connection with digital recorder and video printer should be possible.

Viewing angle approx. 89°/89°/89°/89° (up/down/left/right).

Capability for zoom, underscan and Picture in Picture.

### 4) SHAVER

Arthroscopy shaver, with operating modes, clockwise, counter-clockwise and oscillating. Speed preselection up to at least 8000 rpm. Digital display and adjustment of the rotarian speed. The unit should be able to save user parameters selections. To be offered with autoclavable handpiece, multifunctional footswitch and 2 sets of reusable cutters (each set 5 pieces).

### 5) SUCTION / IRRIGATION PUMP

Effective irrigation and aspiration during arthroscopy

Pump, with pressure range up to 150 mm Hg and delivery rate up to 1.5 l/min.

Integrated safety system for over-pressure management

Digital display of operation parameters.

Complete with with disposable and reusable tubing set.

### 6) DIGITAL RECORDING SYSTEM

Medical grade system for the recording of video endoscopy procedures and images in digital media, according to the resolution of the camera (DVD or CD or USB e.t.c.). Suitable for the preparation of medical records with simple entry of all patients' data. Easy communication with hospital network. Capability of accepting images from other imaging modalities. Capacity at least 500 GBytes. Control via camera head buttons or footswitch.

### 7) TROLLEY VIDEO ARTHROSCOPY

Trolley suitable to hold all the above mentioned apparatus for video arthroscopic procedures.

Made of alluminum or non corrosive materials. Support arm for the second monitor. Integrated cable management system and built in power points.

Main power On-Off switch.

Should have castors with brakes.

CE Marked for medical applications

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## E0A00 ANAESTHETIC STATION, MOBILE, COMPLETE

3-Gas (O<sub>2</sub>, N<sub>2</sub>O, Air) anaesthetic machine, suitable for low and minimal flow anaesthesia. All components fully incorporated into an integrated certified system, capable of being incorporated in an ethernet network.

To provide automatic and detailed control of all electronic and mechanical systems. Automatic sensors calibration. Leakage control with message.

Gas supply either from central piping system or cylinders. Pipeline inlets for O<sub>2</sub>, N<sub>2</sub>O and Air. Complete with O<sub>2</sub> and N<sub>2</sub>O cylinders, suitable for at least 4 hours of operation.

Cylinder and pipeline pressure gauges. Suitable for delivering all types of volatil anaesthetics. At least two places for easily interchangeable vaporisers. Flow operation range of the vaporisers from 15 l.p.m down to less than 0.5 l.p.m.

Electronically operated blender for the adjustment of anaesthetic gas mixture and flow, suitable for the needs of low and minimal flow anaesthesia. Oxygen ratio control system to maintain O<sub>2</sub> minimal concentration at 25%. System for N<sub>2</sub>O flow shut off and fully automatic conversion to operation with compressed air in case of O<sub>2</sub> supply failure.

O<sub>2</sub> "by pass" by activation of an O<sub>2</sub> flush valve. Reservoir bag for manual ventilation and CO<sub>2</sub> absorption canister.

Sphygmomanometer and suction apparatus with suction controller and bacterial filter, gauge and shut-off valve. Interface to anaesthetic gas scavenging system.

Complete patient circuits for adult and children, fully autoclavable. Two vaporisers, for desflurane and sevoflurane. Built-in battery back-up for at least 30 minutes of operation.

- Alarms : Alarm signal in case of O<sub>2</sub>, N<sub>2</sub>O, Air supply failure, power failure, malfunction, tubing disconnection.

### VENTILATION UNIT

Integrated ventilation unit, microprocessor controlled, for volume and pressure controlled ventilation. Suitable for all ages without change of his components. To combine controlled, manual and spontaneous ventilation. Modes of operation: IMV, IRV, SIMV, PSV, PCV. Automatic correction of delivered volume for compensation of circuit compliance. To have the following capabilities ( approx. values ):

Vti: 20 - 1500 ml, Frequency: 5 - 60 b.p.m., adjustable I : E ratio: 1:3-2:1, PEEP: 0 - 15mbar, inhalation pause.

### VENTILATION MONITORING

- Microprocessor controlled monitoring and trending capabilities of the following parameters, by digital values and waveforms : Tidal Volume, Minute Volume, Expiratory flow, Frequency, Pressures : Paw / Peak / Plat / PEEP / P-Mean, Lung Compliance and Resistance, FiO<sub>2</sub>, I:E ratio, concentration of N<sub>2</sub>O and volatil anaesthetics in breathing gas, CO<sub>2</sub> concentration. Graphical loops for spirometry parameters. Automatic anaesthetic agent identification.

-Adjustable audiovisual alarms for the following parameters : airways pressure (High and Low), Ventilation volume (H and L), FiO<sub>2</sub> (H and L), CO<sub>2</sub> concentration (H and L), volatil anaesthetics concentration.

### HAEMODYNAMIC MONITORING

Microprocessor controlled, fully digital open technology design, minimum of eight (8) channels.

Measuring capability parameters : ECG / HR / RR / BP (4) / T (2) / SaO<sub>2</sub> / NiBP/ CO<sub>2</sub> / Anaesthetic agents / BIS / NMT (neuromuscular transmission)

#### 1. Configuration

The following configuration should be offered:

- Monitoring parameters : ECG \ HR \ RR \ NIBP \ SaO<sub>2</sub> \ 2T \ 2BP
- In addition, 1 BIS and 1 NMT module
- Waveform display & digital readout of selected parameters.
- Two lead (at least) ECG simultaneously
- High resolution display, size min 12 "
- Trend period selectable: 1-24hr at least, with 1min resolution
- Processing-evaluation of various parameters-indexes (ST analysis, Basic arrhythmia)
- Analysis of recorded parameters
- Applicable wedge filter method
- Built in printer

#### 2. Alarms

Presetable / programmable medical alarms min in 3 levels and also technical alarms.

#### 3. Safety / Filtering

- Electrical safety protection of patient (IEC 601-1 standard)
- Protection against defibrillation (R/F protection)
- Special filtering to avoid artifacts from lung motion activity

#### 4. Accessories

Cables and reusable accessories for all parameters

#### 5. Interface

Capable of Ethernet networking for data processing and inter-monitoring communication.

Compatible with operating room information system through HL 7 gate, which should be available (optionally to be described)

### CONSTRUCTION

Stove enamelled metal frame trolley, with stainless steel worksurface. 4 antistatic swivel castors with brake system. Drawer unit for anaesthetic material storage and side rails, hooks, arms and poles for tubing, electrodes and accessories mounting. Monitor shelf with length of support arm approx. 350mm with tilt and swivel function mounted on the the anesthesia unit.

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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<b>E2A00</b>	<b>OPERATING TABLE, ELECTRIC, MOBILE, GP</b>
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Stainless steel construction. Stainless steel side rails. Antistatic, radiotranslucent, fully washable, waterproof cushions made of integral polyurethane foam. To permit the insertion of X-ray cassettes. Longitudinal motion of table top. Suitable for patient weight at least 200Kg.

To incorporate the following table top sections (at least 6):

- a. Head plate, adjustable with double articulation
- b. Back section (divided in 2 sub-sections)
- c. Pelvic section
- c. Leg plate divided in two sections with dual-joint abduction, proper for MIS procedures. Easily detachable from the pelvic section. Gas spring assisted adjustment.

The following adjustments must be electrical operated (and manual, in case of power failure).

Height adjustment up to approx. 100cm, trendelenburg / reverse trendelenburg approx. 30° /25° lateral tilt approx. 20°, Back section adjustment and 0-positioning.

Complete with remote control unit. Power supply from integrated, maintenance free, rechargeable batteries, capacity for at least 40 procedures per week. Battery charge level indicator. Incorporated charging unit.

To include the following accessories:

- Arm board , height adjustable with ball and socket joint adjustment. Length approx 40 cm.
- Wristlet with velcro strap
- Body strap with clips for fastening on side rails
- Anesthesia screen with radial clamp
- Infusion stand, 4 hooks, with radial clamp
- Pair of Goepel knee crutches adjustable by ball-and-socket joint, complete with 2 radial clamps, polyurethane foam padding and strap.

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## E2A06 OPERATING TABLE, ELECTRIC, ORTHOPEDIC

Stainless steel construction. Stainless steel side rails. Antistatic, radiotranslucent, fully washable, waterproof cushions made of integral polyurethane foam. To permit the insertion of X-ray cassettes. Longitudinal motion of table top. Suitable for patient weight at least 200Kg.

To incorporate the following table top sections (at least 6):

- a. Head plate, adjustable with double articulation
- b. Back section (divided in 2 sub-sections)
- c. Pelvic section
- c. Leg plate divided in two sections with dual-joint abduction, proper for MIS procedures. Easily detachable from the pelvic section. Gas spring assisted adjustment.

The following adjustments must be electrical operated (and manual, in case of power failure).

Height adjustment up to approx. 100cm, trendelenburg / reverse trendelenburg approx. 30° /25° lateral tilt approx. 20°, Back section adjustment and 0-positioning.

Complete with remote control unit. Power supply from integrated, maintenance free, rechargeable batteries, capacity for at least 40 procedures per week. Battery charge level indicator. Incorporated charging unit.

To include the following accessories:

- Arm board , height adjustable with ball and socket joint adjustment. Length approx 40 cm.
- Wristlet with velcro strap
- Body strap with clips for fastening on side rails
- Anesthesia screen with radial clamp
- Infusion stand, 4 hooks, with radial clamp
- Extension device with 2 traction bars, 2 elongation bars, 1 screw tension device, foot plate support and side rail elongation.
- Pair of foot plates width adjustable
- Counteraction post for femur nailing in lateral position height adjustable complete with rolls and support plate.
- Counteraction post for femur nailing in supine position
- Counteraction post for tibia and fibula nailing, height adjustable and swivelling
- Condyle fixation, adjustable separately
- Goepel knee crutch with ball-and-socket adjustment with fastening strap and radial clamp
- Counteraction post for humerus with radial clamp
- Humerus positioning post with radial clamp
- Weinberger hand traction device, radiotranslucent
- Hand operating table 85x85 cm, radiotranslucent, height adjustable with side rails, pair of hand supports and castors
- Pair of back supports, height adjustable and swivelling
- Pair of Pubis-sacrum supports, height adjustable and swivelling
- Upper arm procedures plate 25x20 cm, height adjustable, radiotranslucent
- Knee position device with radial clamp
- Counteraction post for pelvis plaster cast
- Special mobile stand for mounting accessories

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## E3J01 ELECTROSURGICAL UNIT, HIGH PERFORMANCE

Modular unit, with operation modes suitable for all types of surgical operations (general surgery, urology, gynaecology, inside water, laparoscopy e.t.c.). Activated by handswitch and footswitch.  
 Different outputs for monopolar and bipolar mode. Two outputs for monopolar mode.  
 Microprocessed control, to interrupt the function in case power exceeds preset limit.  
 Signal modulation in at least four different levels, depending on the depth of coagulation and tissue type (Cutting and 3 blend levels).  
 Simultaneous connection of two surgeons, in monopolar mode. Two types of monopolar coagulation, contact and spray coagulation.  
 Bipolar cutting and bipolar coagulation.  
 Digital display of preset power. Stability of output power for all tissue types. Automatic power regulation, depending on tissue resistance.  
 To give an alarm and interrupt the function in case there is an unexpected change in impedance values between earthing plate and skin surface.

Approx. Power characteristics:

- Monopolar cutting : min, 300 W .
- Monopolar spray coagulation : min, 120 W .
- Monopolar contact coagulation : min 80 W .
- Bipolar cutting: min, 70W
- Bipolar coagulation: min, 50W .

Complete with the following accessories:

- Rubber neutral electrode
- Pedal foot switch, for all the modes of monopolar and bipolar operation, suitable for operating rooms.
- Electrode handles, controlled by footswitch and hand switch, suitable for all operation modes.
- All necessary connection cables, approx 3m long.
- Knife electrode.
- Wire loop electrode.
- Lancette electrode, straight.
- Ball electrode 2mm.
- Ball electrode, 4mm.
- Diathermy forceps, 21cm.

## E4H05 MONITOR, TROLLEY MOUNTED, 4 CHANNELS

G.D. Microprocessor controlled, minimum of four (4) channels, trolley mounted.

O.C.

1.Waveform display & digital readout of selected parameters Cascade of ECG to second channel possible

2.Measuring parameters-waveforms: ECG\HR\NIBP\SaO2\T\Resp

3.High resolution color display min 10 "

4. Battery for 2 hr

O.F. 1.Trend period selectable: 1-24hr at least with 1min resolution. Capability of trend review of previous patient 2. Processing-evaluation of various parameters-indexes 3.Analysis of recorded parameters ( arrhythmia analysis on 2 ECG leads simultaneously at least, etc).

ALARMS: Presetable / Programmable medical alarms, min in 3 levels, and also technical alarms.

SAFETY/FILTERING 1.Electrical safety protection of patient (IEC 601-1 standard) 2.Protection against defibrillation (R/F protection) 3.Special filtering to avoid artifacts from lung motion activity

- Freeze capability and event view of frozen waveform

-3 different sweep speeds for monitored waveforms

ACCESSORIES Cables and reusable accessories for all parameters.

INTERFACE

Capable of Ethernet (cable or wireless) networking for data processing and communication with Central Stations

## E4K02 MONITOR, INTRAPARTUM, CARDIOTOCOGRAPH

Intrapartum, foetal monitor measuring 3 HR displayed numerically, suitable for monitoring twins.

Measurement of direct ECG , maternal HR, maternal NIBP, maternal SPO2, uterine activity.

The unit should have the following inputs :MECG, MNIBP, MSPO2, 2 x Ultrasound transducer of minimum 7 crystals each. Including multi channel thermal printer, mobile cart, electrodes and associated transducers (Ext.Toco, dECG, MNIBP, MSPO2, 2x Ultrasound, Uterine catheter)

Minimum 5" display, for display of all parameters and waveforms in one screen

Intrauterine pressure with signal range in: 0 - 100 mm Hg.

Possible telemetry interface.

# Equipment Specifications

Project : SYROS HOSPITAL

**Item Description**

## **E5B00 ECG RECORDER, MULTI-CHANNEL, MOBILE**

G.D.

Twelve channel ECG recorder for simultaneous acquisition of up to 12 leads at least.

O.F./O.C.

- Real time continuous recording of 12 channels
  - Color LCD display of six and twelve -ECG format to be selectable
  - Software for ECG measurement and interpretation. Arrhythmia extended recording. Memory for min 100 ECG's.
  - Able to communicate with Cardiology Clinical Information system for 12 lead ECG transmission (The same system for CCU monitors)
  - Automatic/manual operation modes.
  - Digital recorder with selectable presentation of simultaneous recordings. Printing of all channels on a A4 page.
  - Alphanumeric keyboard
  - user manual measurements
  - Rechargeable batteries for approximately 50 ECG's. Or at least 30 min continuous recording
  - Measurements and interpretation of ECG
  - Able to connect with external monitor- Export in PDF format
  - Compatible with IEC 60601-2-51 performance standard
- ACCESSORIES**
- Power cord,electrodes,
  - 100 sheets of paper. ECG cables with individually replaceable leads
  - Mobile cart of same manufacturercart with arm for holding lead wires.

## **E6N08 INSTRUMENTS, ENDOSCOPY, ARTHROSCOPES**

Set consisting of the following instruments (approx. sizes) :

- Drainage cannula approx. 3.2mm with one straight tap  
and one laterally mounted tap and obturator (x1)
- Hook probe approx. 4.4 mm (x1)
- Meniscus grasping forceps (x1)
- Punch forceps retrograde, 4.9mm (x1)
- Punch forceps retrograde, 3.5mm (x1)
- Hook scissors straight, 4.5mm (x1)
- Hook scissors straight, 3.4mm (x1)
- Sponge holding forceps (x3)
- Gillies dissecting forceps (x1)
- Scalpel handle No 3 (x1)
- Mayo scissors straight, 140mm (x1)
- Towel clips, backhaus, 89mm (x5)
- Sterilization (134oC) basket with rack for at least 14 forceps (x1)
- Receivers (x2)
- Mayo-Hegar needle holder, 178mm (x1)
- Arthroscope telescope 4 mm, 30° and Arthroscope telescope 4mm, 70°, with pyramidal trocar, sleeve approx. 5,6mm with 2 rotatable taps and obturator.

## **F0A01 HAEMODIALYSIS MACHINE, COMPLETE**

- System for automatic preparation of final dialysis fluid (acetate-bicarbonate) and automatic regulation and control of conductivity. With sodium and bicarbonate value selection according to individual patient therapy requirements.
- Integrated dialysis fluid flowmeter
- Suitable for controlled ultrafiltration sequential ultrafiltration and haemodiafiltration.Sodium and ultrafiltration profiling.
- Bicarbonate haemodialysis either from concentrated dialysis fluid, or bicarbonate power cartridge.
- To include urea measurement of KT/V during the treatment cycle.
- Single needle /single pass haemodialysis.
- High accuracy pump preferably with capability of returning the blood to the patient in case of power failure by means of an integrated battery
- lasting approx 10 min.
- Automatic cleaning/water rinsing and heat and chemical disinfection.
- Self testing on machine start-up. Operation and monitoring of all treatment parameters, preferably in Greek language, with optical and acoustical alarms and safety systems for patient protection against machine failures and/or user errors.
- Integrated heparin pump with bolus capability.
- Automatic measurement of arterial and venous blood pressure.
- Blood leakage and air bubble detection.
- Measurement and control of blood flow and of total blood volume passed through the filter.
- Upgradable to blood pressure & temperature monitoring.Capable for future connection to patient data management system.
- To accept cartridges, dialyzers, fluids et.from all well known manufacturers.
- Wheel mounted with braking capability.
- Complete with holders for filter/bags

# Equipment Specifications

Project : SYROS HOSPITAL

Item	Description
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## **F0A15 HAEMODIAL.MACHINE, CV -VH**

The device should be controled by microprocessor, which perform multiple self-test and safety procedures for the safe operation.

Able to perform in 5 different therapy modes.

All the therapy parameters should be displayed on a high-resolution color screen

Able to operate with almost all the market dialysers suitable for every therapy as well as to operate with fixed cassette (multifiltrate cartridge) for easier set up and handling.

It should have all the necessary automation and safety systems for patient protection against any machine fault or user mishandling (air detector, all pressure detectors, bubble catcher etc)

It should perform continuously measurement, calibration and control of arterial venous and transmembrane pressures, for patient safety.

It should be equipped with self detect error program (special software) for easier and quicker maintenance and repair.

With 2 special chambers for the precise online heating of the dialysate at the desired temperature.

With 4 autonomous high precision scales.

It should have a precise heparin pump with bolus ability.

With 4 peristaltic pumps. One for the blood, one for the filtrate, one for the dialysate and one for the dialysis solution.

It should have a back up battery system which will be activated in case of power failure, for at least 15-20 minutes.

Equipped with castors with brakes, for easy transportation.

## **G0A00 OPHTHALMIC DIAGNOSTIC UNIT**

Automated system, with electric elevation and with 2 table tops, in order to incorporate refractometer - keratometer, slit lamp. To include positions for ophthalmometer and automatic chart projector. Counter balanced suspension arm with safety lock for swinging. Electric examination chair, fully reclinable backrest 180, rotatable 360°, with adjustable backrest.

## **G0C00 STOOL, EXAMINATION**

Tubular metal frame, upholstered seat and back rest. Height adjustable, approx. 40-60 cm, gas spring operation. Rotation through 360°. Seat with adjustable back rest. To be wheel moved.

## **G0I02 CHART PROJECTOR, AUTOMATIC**

Chart selection by using remote contol. Full range of projections from 0,5 to 15 in at least 1/10 increments. To include the following charts : Letters charts, E-charts, Figure Charts, Number charts, Landolt Rings charts, end tests as Red -Green, Astigmatism, Worth, Cross cylinder, Schober, cross grid, phoria, fixation point. Long life halogen lamp, built in automatic turn off function. Test and mask selection speed not